



CBRN HANDBOOK

**An Industrial Base Product Guide
For Chemical, Biological, Radiological,
And Nuclear Items for the U.S. Army**

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DISCLAIMER

The list of items contained in this document is not represented to be complete or inclusive.

FOREWARD

The Chemical Biological Radiological Nuclear (CBRN) Handbook is a data source available to the Army acquisition community that provides information about current CBRN items. It is intended to be a reference only.

The CBRN Handbook is divided into eight main commodity areas that encompass the CBRN sector. They include Biological Defense, Collective Protection, Contamination Avoidance, Decontamination, Guardian, Individual Protection, Information Systems, and Medical products.

If units are attacked or are forced to occupy or traverse Chemical/Biological contaminated environments, individual and collective protection systems provide the Warfighter life-sustaining and continued operational capabilities. Individual protection equipment includes protective masks, suits, boots, and gloves. Collective protection equipment includes two general categories: stand-alone shelters and integrated systems that provide contamination-free, environmentally-controlled surroundings for personnel to perform their missions. Collective protection, i.e., overpressure, can be applied to mobile and fixed command posts, medical facilities, rest and relief shelters, buildings/fixed sites, vehicles, aircraft, and ships.

In the event that contamination cannot be avoided, personnel and equipment must be decontaminated in order to reduce and/or eliminate hazards after chemical and biological agent employment. A family of decontaminants and applicators, equipment, and procedures are under development for decontaminating mission-critical areas within large area ports, airfields, and other fixed sites, which may be targeted for persistent agent contamination. Decontamination systems provide the Joint Force a regeneration capability for units that become contaminated. Modular decontamination systems have been developed to provide decontamination units with the capability to tailor their equipment to support specific missions.

The information in this document was analyzed and compiled by the Industrial Base Team located at Edgewood Chemical Biological Center at Rock Island, IL.

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The CBRN Handbook is designed to serve as a desktop reference to identify CBRN items within the Army. It is available in .pdf format for print or online at <https://vems.ria.army.mil/IBDW> under the documents tab.

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BIOLOGICAL DEFENSE PRODUCTS



Biological Defense Products

Biological Integrated Detection System (BIDS) M31 / M31A1 / M31A2-JBPDS

NSNs:

6665-01-392-6191 (M31) (Obsolete)
6665-01-436-2309 (M31A1)
6665-01-500-4040 (M31A2)

Part Number:

5-15-17670
5-15-18600
15-15-30480

LINs:

A48430 (M31) (Obsolete)
A48498 (M31A1)
A48680 (M31A2)

Class of Supply: 7

Description: The BIDS consists of a shelter (S-788 Lightweight Multipurpose Shelter) mounted on a dedicated vehicle [M1097 (Heavy High Mobility Multipurpose Wheeled Vehicle) HMMWV] and equipped with a biological detection suite employing complementary technologies to detect large area biological attacks. The system includes a trailer-mounted 15-kw generator (PU-801) to provide electrical power. The BIDS is C130 aircraft transportable, has roll-on/roll-off capability, and can operate in a dismantled role separate from its dedicated HMMWV. The BIDS can identify anthrax, plague, botulism toxin, and SEB.

Use: The M31 is no longer being procured and will be obsolete. The Army has no plans for upgrading the M31A1 to the A2 model, and it will be phased out of the system via attrition. The M31A2 JBPDS BIDS production is being performed in-house by ECBC-Edgewood with Letterkenny Army Depot support. No P-40 exists for the M31A2 BIDS as a separate item in the POM; it is funded by the JPEO under the JBPDS program. The majority of down parts are commercial items with the exception of the major components such as: TACOM HMMWV; NATICK S788 Shelter; and CECOM ECUs generators and radios. The M31 series and P3I BIDS offer manual, semi-automatic and fully automatic detection and identification capabilities for Army Chemical Companies (CM CO) across the world.

Technical Manual: 3-6665-349-12&P (M31) **Field Manual:** 3-11.86
3-6665-350-12&P (M31A1)
3-6665-360-13&P(M31A2)



Biological Defense Products

Biological Sampling Kits (BSKs)

NSNs:

6665-01-494-8725 (Coded)
6665-01-497-7811 (Training)

Part Number:

O-BSK-01C/JPOBSKT-10
O-BSK-01T/JPOBSKT-20

LIN: N/A

Class of Supply: 2



Description: The BSK and its associated Hand Held Assays (HHAs) are employed for: field screening suspect munitions or munitions fragments for presence of biological warfare (BW) agents; screening packages that display suspicious liquids, powders or suspensions; screening suspect terrorist laboratory or weapons materials that might be associated with the manufacture or delivery of BW agents; or as a contamination identification kit for indoor areas where it is suspected a BW agent has been released in fairly high concentrations. HHAs are not to be used as the sole method of identification and are not for diagnostic use.

Use: The BSK contain HHAs which are used as quick (15 minutes) presumptive biological agent identification devices capable of detecting the presence of eight biological warfare agents. The BSK comes with a panel of eight HHAs, a conical tube that contains two cotton swabs for sampling, 10 ml Phosphate Buffer solution, and a 10 x 10 cm instruction card that can be used to measure the sampling area. The HHA is a simple, antibody-based assay (test) used to presumptively identify Biological Warfare (BW) agents. HHAs are the primary identification component of several fielded DoD BW detection systems: Biological Identification Detection System (BIDS) and Portal Shield, and the Joint Biological Point Detection System (JBPDS).

Technical Manual: 3-6665-348-12&P

Field Manual: 3-11.86



Biological Defense Products

Dry Filter Unit (DFU) - Ambient Air Particulate Collector

NSN:
6665-01-523-3927 DFU 1000
6665-01-523-3926 DFU 2000

Part Number:
5-15-31616
5-15-31617

LIN: N/A

Class of Supply: 2

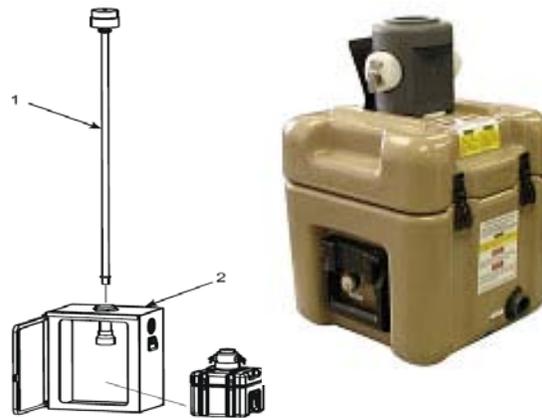


Figure 1. DFU 2000

Description: The purpose of the DFU 1000 and DFU 2000 is to collect biological particulates from ambient air for subsequent analysis using Hand Held Assays (HHAs), Polymerase Chain Reaction (PCR), and other microbiological confirmatory techniques. The DFU 1000 is configured in a one-person portable, weather tight carrying case having two separate cables enabling either AC/DC from 120/240 V, 50/60 Hz commercial power source. An optional auxiliary power pack for 24 VDC can also be purchased. The DFU 2000 is a DFU 1000 that is mounted inside a rugged enclosure for protection from weather and debris, and it comes with an attached pre-separator stack. The DFU 1000 can stand alone once removed from the DFU 2000 unit.

Use: The DFU collects, analyzes, and determines the presence of biological warfare agents to enhance survivability of U.S. Forces. The DFU is used by all branches of the military services.

Notes: The DFU Biological Agent Sampler Kit is a critical item to the operation of the Collector Ambient Air DFU 1000 and DFU 2000 Dry Filter Units (DFUs). The kit provides the operator with the supplies to collect samples, replace filters for additional sampling, and transport the samples to a testing area. DFU sampling kits are not included in DFU 1000 or DFU 2000 orders. The sampling kit must be ordered separately.

Technical Manual: 3-6665-348-12&P

Field Manual: 3-11.86



Biological Defense Products

Hand Held Assay Panels (HHAs)

NSNs:

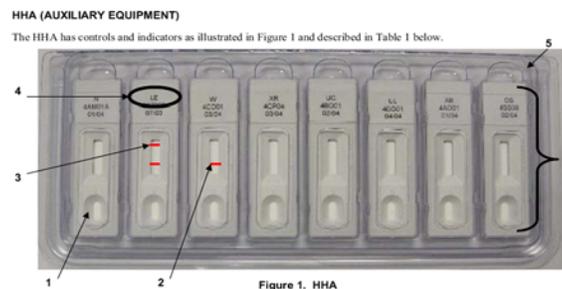
6665-01-504-8534 (Coded)
6665-01-504-8535 (Training)
Currently Un-coded

Part Number:

O-HHA-01C/JPOHHA-10
O-HHA-01T/JPOHHA-20
O-HHA-01UN

LIN: N/A

Class of Supply: 2



Description: HHAs are not designed to be the sole method of identification and are not for diagnostic use. The current capability allows for presumptive identification of 10 different Biological Warfare threats and 4 stimulant agents. The HHA is designed to be used only on non-porous surfaces, for example, metal, plastic, and glass. The best results can be achieved when samples are taken from an area where the concentrations are believed to be the highest. The results can be utilized to advise and assist in facilitating the resolution of a biological incident.

Use: The HHA has controls and indicators as shown in the illustration. 1. Sample Well, 2. Test Line, 3. Control Line, 4. Code numbers, 5. Plastic Panel and 6. Individual Assay Strip. After inserting a biological sample using the pipette, the test line will produce a RED line within approximately 15 minutes if a biological warfare agent is present. The control line indicates that the HHA is functioning properly, if no control line appears the HHA is considered inconclusive. The operator uses code numbers at the top of each panel to report test results. The plastic panel holds up to eight individual HHA's together to form one panel. The individual ticket test areas are each capable of presumptively identifying a different biological warfare agent.

Notes: Coded HHA panels require a classified decode list in order to be able to interpret results. Un-coded HHA panels do not require a classified decode list in order to be able to interpret results. Training HHA panels includes 7 negative assays and 1 positive assay and have no codes associated with them. Positive and negative trainer HHAs are available.

Technical Manual: 3-6665-348-12&P

Field Manual: 3-11.86



Biological Defense Products

Joint Biological Point Detection System (JBPDS) XM96 / XM97 / XM98 / XM103

NSN:

6665-01-452-9643 (XM96 Man Portable)
6665-01-452-9644 (XM97 Shelter)
6665-01-452-9645 (XM98 Ship)
6665-01-512-1351 (XM103 Trailer)

Part Number:

30295-1600-1
30295-1600-2 Class of Supply 2
30295-1600-3
5-15-19405

LIN: N/A

Class of Supply: 7



Description: The JBPDS is a fully automated biological detection and identification suite. It consists of a detector, collector, fluid control system, and identifier. As part of the basic bio suite, these components work autonomously to rapidly detect and identify aerosolized biological threat agents. Upon presumptive identification a confirmatory sample is generated for evacuation to confirmatory laboratories. The basic bio suite can be integrated into multiple platforms (vehicles, ships, trailers) or in a standalone configuration. JBPDS systems can be operated from a local controller on the front of each system, remotely, or as a network.

Use: JBPDS provides automatic detection and identification of airborne biological agents at very low levels, triggers local and remote warning systems, and communicates threat information over a standard communication system. Using laser-induced fluorescence, the trigger/detector continuously evaluates the atmospheric background for traces of potential biological agents. When the system detects something of a suspicious nature, the collector/concentrator is initiated to sample hundreds of liters of air per minute, providing a small amount of liquid containing the collected aerosol sample. This sample is then evaluated for specific biological agents using immunoassays with an automated reader assembly. If the assay shows signs of biological agents, an alarm is sounded and a portion of the collected sample is provided for gold standard laboratory analysis.

Technical Manual:

3-6665-398-12&P (Ship) 3-6665-396-12&P (Man-Portable)
3-6665-397-12&P (Shelter) 3-6665-399-12&P (Trailer)
XM103-3-6665-395&12P
XM102-3-6665-399&12P

Field Manual: 3-11.86



Biological Defense Products

Joint Biological Standoff Detection System (JBSDS)

NSN: 6665-01-533-7148

Part Number: 5-15-30891

LIN: N/A

Class of Supply: 7



Description: The Joint Biological Standoff Detection System (JBSDS) is the first standoff early warning Biological Detection (BD) system. The system will be capable of providing near real time detection of biological conditions and early warning of (Detect to Warn) biological attacks/incidents at fixed sites or when mounted on multiple platforms, including CBRN reconnaissance platforms. It is capable of providing standoff detection, ranging, tracking, and discrimination (bio vs. non-bio) of large area biological warfare aerosol clouds for advanced warning, reporting, and protection.

Use: The JBSDS Increment 1 will be used in conjunction with point detectors such as Portal Shield, Joint Biological Point Detection System (JBPDS), and the Biological Integrated Detection System (BIDS) to enhance the overall force protection. JBSDS Increment 1 will be deployed at fixed site locations or alternately, will operate in a stationary mode on mobile platforms. Fixed sites include but are not limited to seaports, airfields, logistical centers, staging areas and command and control nodes.

Technical Manual: 3-6665-403-13&P

Field Manual: 3-11.86



Biological Defense Products

Joint Portal Shield (JPS)

NSN: N/A

Part Number: N/A

LIN: N/A

Class of Supply: N/A



Description: The Joint Portal Shield (JPS) is an automated biological detection and identification system specifically designed for fixed sites. The system is housed in an International Organization for Standardization (ISO) container that is equipped with uninterruptible power, and environmental conditioning systems. The JPS sensor suite automates the detection, collection and identification of biological warfare agents, and reports this information to a centralized command post. JPS has gone through numerous upgrades as new technology becomes available. The current configuration, the MARK IV, provides the most advanced technology available for biological detection. JPS is used at airbases, ports and bases in South Korea and Southwest Asia.

Use: JPS provides detection and presumptive identification of biological warfare agents. Capabilities include automated detection, collection, and presumptive identification of biological warfare agents. The system has chemical warfare detection capability via integrated ACADA with a continuous uninterruptible power source.

Technical Manual: N/A

Field Manual: 3-11.34



Biological Defense Products

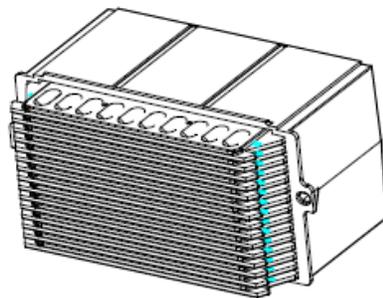
Progressive Assay Reader (PAR) Carrier Assembly

NSN:
6665-01-521-7871 (Operational)
6665-01-521-7870 (Training)

Part Number:
JPOPAR-10
JPOPAR-20

LIN: N/A

Class of Supply: 2



Description: The PAR is used in the Joint Portal Shield. The PAR is a simple, one-time use, antibody-based assay (test) used to presumptively identify Biological Warfare Agents (BWAs). The PAR is not designed to be the sole method of identification and is not for diagnostic use. The current capability allows for presumptive identification of 10 different biological warfare threats and 4 simulant agents. The best results can be achieved when samples are taken from an area where the concentrations are believed to be the highest. The results can be utilized to advise and assist in facilitating the resolution of a biological incident.

Use: The PAR is a simple, one-time use, antibody based assay (test) used to presumptively identify BWAs. The PAR is not designed to be the sole method of identification and is not for diagnostic use.

Technical Manual: N/A

Field Manual: 3-11.86

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COLLECTIVE PROTECTION PRODUCTS

Collective Protection Equipment Command, Controls & Operations (CCO) Shelters



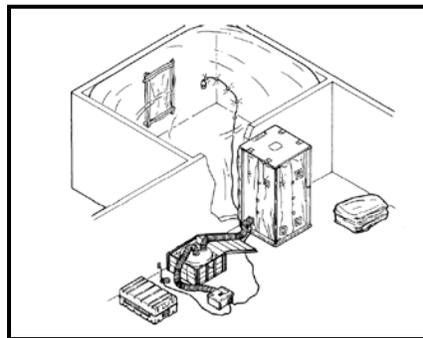
M20 Simplified Collective Protection Equipment (SCPE)

NSN: 4240-01-166-2254

Part Number: 5-19-8000

LIN: C79000

Class of Supply: 7



Description: The M20 SCPE is a lightweight and mobile clean air shelter for use against chemical and biological warfare agents and radioactive particles; may also be used as a rest and relief shelter or as a command and control center. The M20 SCPE consists of a protective entrance, filter canister, and a room liner package.

Use: The SCPE can be used as a temporary rest and relief shelter (for example, as a break area for personnel working in heavy maintenance and supply operations) or as a command and control center. It provides a contamination-free environment in which 10 soldiers can work, eat, or rest without the encumbrance of the individual protection equipment.

Technical Manual: 3-4240-288-12&P

Field Manual: N/A

Collective Protection Equipment Command, Controls & Operations (CCO) Shelters



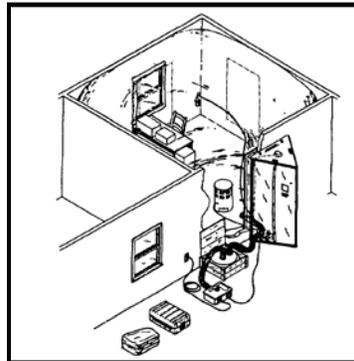
M20A1 Simplified Collective Protection Equipment (SCPE) (Existing Room)

NSN: 4240-01-330-7806

Part Number: 5-19-11320

LIN: C79000

Class of Supply: 7



Description: The SCPE M20A1 is an inflatable system that will convert an interior room of an existing building into a positive pressure shelter for use against chemical and biological warfare agents and radioactive particles. The M20A1 allows personnel to perform assigned missions in a contaminated environment without the encumbrance of individual protective equipment.

Use: The M20A1 SCPE is an inflatable shelter used as a command control operations and soldier relief facility that provides protection against chemical and biological warfare agents.

Technical Manuals: 3-4240-313-10
3-4240-313-20&P

Field Manual: N/A

Collective Protection Equipment Command, Controls & Operations (CCO) Shelters



Modular Collective Protection Equipment (MCPE) - Mobile Trucks GPFU - MOBILE TRUCKS (has other components such as PE and Install Kits)

NSN:	Nomenclature:	LIN:	Part Number:	Class of Supply:
4240-00-237-0227	M56 GPFU	H48904	E5-19-6402	2
4240-00-237-0223	M59 GPFU	N/A	E5-19-6699	2
4240-01-149-1719	M84 GPFU	N/A	E5-19-6830	2
4240-01-192-7234	M87 GPFU	N/A	E5-19-8908	2
4240-01-231-6515	M93 GPFU	N/A	E5-19-8892	2
4240-01-274-6355	M95 GPFU	N/A	E5-19-9259	9
4240-01-274-6356	M96 GPFU	N/A	E5-19-9420	9



Description: The GPFU removes toxic gases and dust from the air supplied to the vehicle, van, or shelter (with or without protective entrance). The main fan draws outside air through the inlet tee and forces it through the filter unit to the enclosure. The continuous input of filtered air creates a positive pressure system that permits crew members to perform normal functions in the protected enclosure without protective masks and clothing. Pressure sensing components in the compartment control module provide a low pressure warning.

Use: The gas-particulate filter unit provides filtered air under positive pressure to the M10 Protective Entrance and to the TACFIRE shelter.

Technical Manuals: 3-4240-284-20&30P (M56 GPFU) **Field Manual:** N/A
None (M59 GPFU)
3-4240-298-20&P (M84 GPFU)
3-4240-317-20&P (M87 GPFU)
3-4240-325-20&P (M93 GPFU)
3-4240-327-20&P (M95)
3-4240-328-20&P (M96)
43-0001-26-1

Collective Protection Equipment Command, Controls & Operations (CCO) Shelters



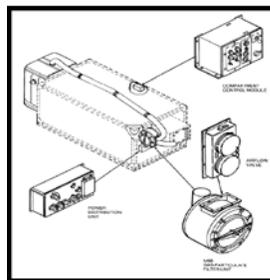
M56 Gas Particulate Filter Unit (GPFU)

NSN: 4240-00-237-0277

Part Number: 5-19-6402

LIN: N/A

Class of Supply: 2



Description: The M56 GPFU consists of a gas particulate filter set, filter housing/fan assembly, airflow valve, a power distribution unit and a compartment control module.

Use: The M56 particulate filter unit removes chemical and biological agents and dust from the air it supplies to the protective entrance and shelter. The filter generates internal positive pressure which prevents toxic agents from infiltrating into personnel compartments.

Technical Manuals: 3-4240-284-20P
3-4240-284-30P

Field Manual: N/A

Collective Protection Equipment (Command, Controls & Operations (CCO) Shelters



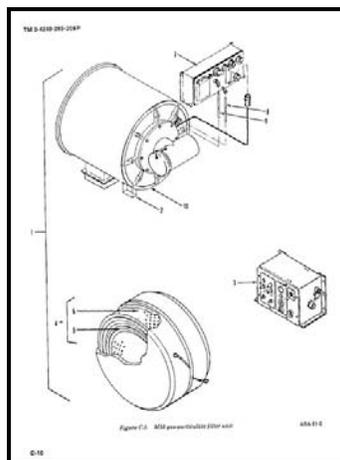
M59 Gas Particulate Filter Unit (GPFU)

NSN: 4240-00-237-0223

Part Number: 5-19-6699

LIN: N/A

Class of Supply: 2



Description: The M59 GPFU provides filtered air under positive pressure to field shelters allowing operation in a chemical biological agent contaminated area. The filter housing includes the main fan and two M98 Gas Particulate filter sets, compartment control module, airflow valve, and a power distribution unit. The pressure sensing components in the control module automatically adjust the air flow valve to maintain a positive pressure within the vehicle, van, or shelter.

Use: The M59 GPFU provides up to 400 cubic feet per minute of filtered air under positive pressure to field shelters allowing operation in a chemical and biological agent contaminated area. It is currently used on the shelter for the Patriot missile fire control system.

Technical Manuals: 3-4240-285-20P
3-4240-285-30P

Field Manual: N/A

Collective Protection Equipment Command, Controls & Operations (CCO) Shelters



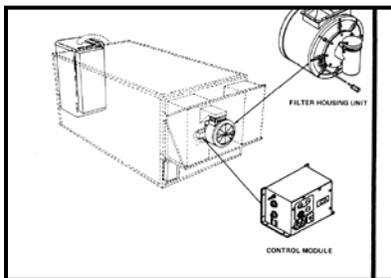
M84 Gas Particulate Filter Unit (GPFU)

NSN: 4240-01-149-1719

Part Number: 5-19-6830

LIN: N/A

Class of Supply: 2



Description: The M84 GPFU provides filtered air under positive pressure to field shelters allowing operation in a chemical biological agent contaminated area. The filter housing unit includes the main fan, one M98 Gas Particulate filter set and a compartment control module.

Use: The M84 GPFU provides up to 200 cubic feet per minute of filtered air under positive pressure to field shelters allowing operation in a chemical biological agent contaminated area. It is used on the shelter for the IHAWK fire control system.

Technical Manuals: 3-4240-298-20&P

Field Manual:

N/A

Collective Protection Equipment Command, Controls & Operations (CCO) Shelters



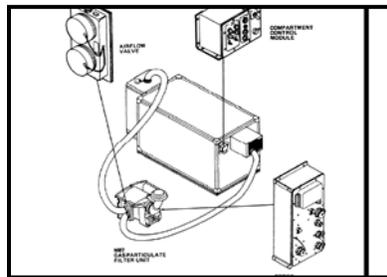
M87 Gas Particulate Filter Unit (GPFU)

NSN: 4240-01-192-7234

Part Number: 5-19-8908

LIN: N/A

Class of Supply: 2



Description: The M87 GPFU provides filtered air under positive pressure to field shelters allowing operation in a chemical biological agent contaminated area. The filter housing includes a vaneaxial fan, dust collector, two M98 Gas Particulate filter sets, compartment control module, airflow valve and power distribution unit. The pressure-sensing components in the control module automatically adjust the airflow valve to maintain a positive pressure within the vehicle, van or shelter.

Use: The M87 GPFU provides up to 400 cubic feet per minute of filtered air under positive pressure to field shelters allowing operation in a chemical biological agent contaminated area.

Technical Manuals: 3-4240-309-20&P
3-4240-317-20&P

Field Manual: N/A

Collective Protection Equipment Command, Controls & Operations (CCO) Shelters



M93 Gas Particulate Filter Unit (GPFU)

NSN: 4240-01-231-6515

Part Number: 5-19-8892

LIN: N/A

Class of Supply: 9



Description: The M93 GPFU filter unit is the smallest and lightest in the family of filter units designed to protect vehicles and shelters with minimum size, weight and power requirements. It can be employed to provide positive pressure collective protection to vehicles and mobile shelters. Note: Modification Work Order (3-4240-325-12) for removal/replacement of M48 GPF NSN: 4240-01-161-3710/ M48A1 GPF NSN 4240-01-363-1311.

Use: The M93 GPFU is designed to remove toxic chemical and biological warfare agents in gaseous (vapor) and aerosol (particulate) forms from the air stream, while providing toxic free environment to personnel or equipment by creating positive pressure in the toxic free area (TFA). It provides 100 cubic feet per minute of filtered air under positive pressure to fielded shelters, allowing shirtsleeve operations in a chemical biological contaminated environment.

Technical Manual: 3-4240-325-20&P

Field Manual: N/A

Collective Protection Equipment Command, Controls & Operations (CCO) Shelters



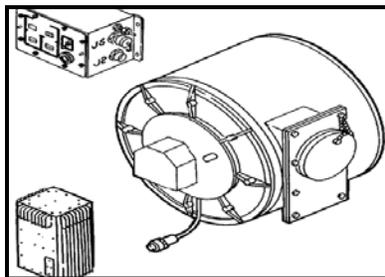
M95 Gas Particulate Filter Unit (GPFU)

NSN: 4240-01-274-6355

Part Number: 5-19-9259

LIN: N/A

Class of Supply: 9



Description: The M95 GPFU provides filtered air under positive pressure to field shelters allowing operation in a chemical biological agent contaminated area. It includes a filter housing unit, fan and separator assembly, one M98 Gas Particulate filter set, motor controller and a compartment control module.

Use: The M95 GPFU provides up to 200 cubic feet per minute of filtered air under positive pressure to field shelters allowing operation in a chemical biological agent contaminated area. It is used on the shelter for IHAWK fire control system.

Technical Manual: 3-4240-327-20&P

Field Manual: N/A

Collective Protection Equipment Command, Controls & Operations (CCO) Shelters



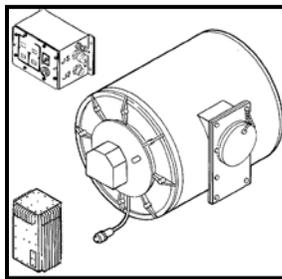
M96 Gas Particulate Filter Unit (GPFU)

NSN: 4240-01-274-6356

Part Number: 5-19-9420

LIN: N/A

Class of Supply: 9



Description: The M96 GPFU is a unit consisting of a power driven fan or blower, gas and particulate filter(s) or gas-particulate filter assembly.

Use: The M96 GPFU is used for removing chemical, biological, and radiological contaminants from air supplied to buildings, shelters, trailer vans, and the like, or to individual hose connected face masks and/or headpieces. The GPFU is the source of clean air for the protected enclosure.

Technical Manual: 3-4240-328-20&P

Field Manual: N/A

Collective Protection Equipment Command, Controls & Operations (CCO) Shelters



Installation Kits

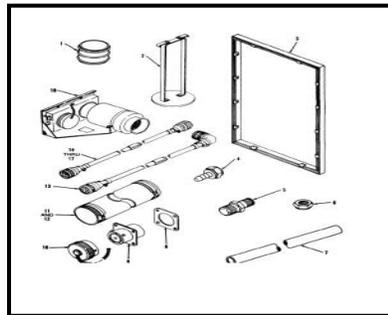
M262 Installation Kit (TACFIRE)

NSN: 4240-01-063-4655

Part Number: 5-19-6704

LIN: J87608

Class of Supply: 2



Description: The M262 consists of electrical cables, air hoses, and miscellaneous hardware used to install and interconnect a filter unit and/or a protective entrance to a chemical, biological, and radiological shelter system.

Use: The installation kit provides air-duct hoses, cables, and connectors for installation and interface of the filter unit and protective entrance on the shelter. The protective entrance serves as a vestibule for personnel to enter and exit the shelter without introducing airborne contamination into the pressurized personnel compartment. A gas-particulate filter unit filters and pressurizes the air supplied to the entrance.

Technical Manuals: 3-4240-284-20&P
3-4240-284-30&P

Field Manual: N/A

Collective Protection Equipment Command, Controls & Operations (CCO) Shelters



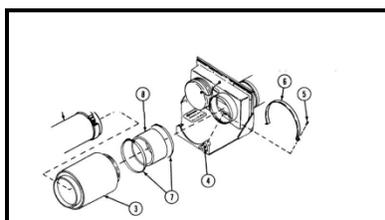
M263 Installation Kit, CB (Missile Minder)

NSN: 4240-01-063-7679

Part Number: 5-19-6705

LIN: J31970

Class of Supply: 2



Description: The installation kit provides air-duct hoses, cables, and connectors for installation and interface of the filter unit and protective entrance on the shelter. The protective entrance serves as a vestibule for personnel to enter and exit the shelter without introducing airborne contamination into the pressurized personnel compartment. A gas-particulate filter unit filters and pressurizes the air supplied to the entrance.

Use: The M263 provides filtered air under positive pressure to the M12 Protective Entrance and to the AN/TSQ-73 shelter.

Technical Manuals: 3-4240-286-20&P
3-4240-286-30&P

Field Manual: N/A

Collective Protection Equipment Command, Controls & Operations (CCO) Shelters



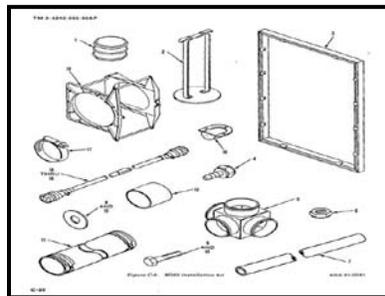
M265 Installation Kit (Patriot)

NSN: 4240-01-110-7617

Part Number: 5-19-6707

LIN: N/A

Class of Supply: 9



Description: The installation kit includes items necessary to connect the protective entrance to the unit. It consists of air duct couplings, entrance frame interface, air ducts, cables, and the various clamps and connectors for complete installation.

Use: The M265 provides filtered air under position pressure to field shelters allowing operation in a chemical biological agent contaminated area. Personnel enter and exit through a protective entrance without admitting contaminated air.

Technical Manuals: 3-4240-285-20&P
3-4240-285-30&P

Field Manual: N/A

Collective Protection Equipment Command, Controls & Operations (CCO) Shelters



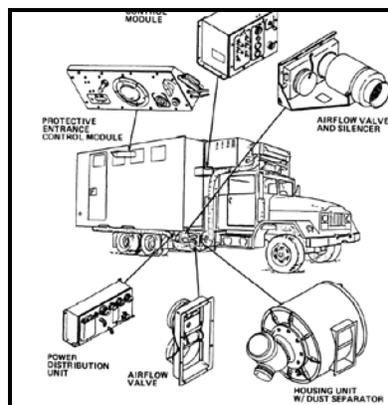
M277 Installation Kit (TACFIRE)

NSN: 4240-01-186-8423

Part Number: N/A

LIN: N/A

Class of Supply: 9



Description: The TACFIRE collective protection equipment consists of an M59 gas particulate filter unit, airflow valves, power distribution unit, protective entrance control module, compartment control module, and installation kit M277.

Use: The TACFIRE provides filtered air under positive pressure to field shelters allowing operation in a chemical biological agent contaminated area. Personnel enter and leave through a protective entrance without admitting contaminated air.

Technical Manual: 43-0001-26-1

Field Manual: N/A

Collective Protection Equipment Command, Controls & Operations (CCO) Shelters



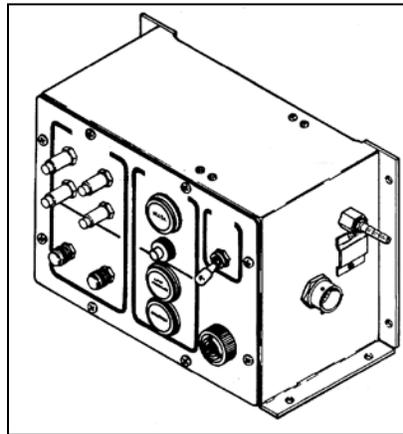
Modular Collective Protection Equipment (MCPE) Compartment Control Module

NSN: 4240-01-057-3378

Part Number: 5-19-6376

LIN: N/A

Class of Supply: 9



Description: The compartment control module portion of the gas-particulate filter unit controls the pressurization of the shelter on which the collective protection equipment is installed.

Use: Pressure sensing components in the compartment control module automatically adjust the airflow valve to maintain a positive pressure in the shelter. The Van 1 (transportable shelter unit) is used with three other vans in the Guardrail/Common sensor system processing complex to observe, analyze and process information relayed from the airborne relay facility. The gas particulate filter unit removes toxic gases and dust from the air supplied to the protective entrance and shelter. Outside and return air is drawn by the main fan through the air inlet of the filter unit. .

Technical Manual: 3-4240-302-30&P

Field Manual: N/A

Collective Protection Equipment Command, Controls & Operations (CCO) Shelters



Modular Collective Protection Equipment Control Module

NSN: 4240-01-048-2803

Part Number: 5-10-6357

LIN: N/A

Class of Supply: 9



Description: The control module, mounted inside the shelter provides a visual (flashing light) and audible warning whenever shelter pressure falls or if input power fails.

Use: The control module controls pressurization of the shelter on which collective protection equipment is installed and warns the crew of low shelter pressure.

Technical Manual: 3-4240-302-30&P

Field Manual: N/A

Collective Protection Equipment Command, Controls & Operations (CCO) Shelters



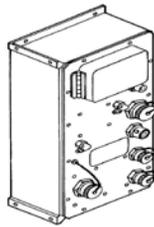
Modular Collective Protection Equipment Power Distribution Unit

NSN: 4240-01-068-8645

Part Number: 5-19-6387

LIN: N/A

Class of Supply: 9



Description: The Power Distribution Unit accepts and distributes 208v AC, 3 phases. 400Hz power to appropriate Collective Protection Equipment (CPE) components. It converts high voltage power to 28v DC for appropriate CPE components. High voltage is used in the operation of this equipment

Use: The Power Distribution Unit is used to regulate the supply of AC and DC power to the Modular Collective Protection Equipment system and provide control and warning function for the enclosure and protective equipment.

Technical Manual: 3-4240-302-30&P

Field Manual: N/A

Collective Protection Equipment Command, Controls & Operations (CCO) Shelters



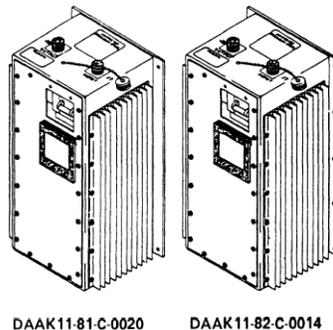
Modular Collective Protection Equipment Static Frequency Converter

NSN: 4240-00-394-9571

Part Number: 5-19-6425

LIN: N/A

Class of Supply: 9



Description: The SFC is a small single unit system. The SFC provides up to 3.2 kVA of power. A circuit breaker turns the SFC on or off and provides overbad protection. Test points are provided to check output voltage and frequency. Electrical receptacles are used to connect the SFC to input and output power cables. SFC for contract DAAK11-81-C-0020 have four mounting holes on the base, DAAK11-8240014 SFC have ten.

Use: The SFC converts electrical power from 208 Vat, 3-phase, 4 wire, 60Hz input to 208 Vat, 3-phase, 5 wire, 400Hz electrical power. The SFC is a component of various other systems.

Technical Manuals: 3-4240-299-23&P **Field Manual:** N/A
43-0001-36-1

Collective Protection Equipment Command, Controls & Operations (CCO) Shelters



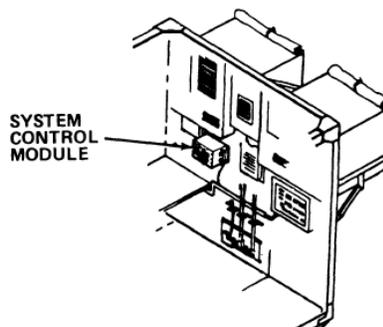
Modular Collective Protection Equipment System Control Module

NSN: 4240-01-234-2266

Part Number: 5-19-9119

LIN: N/A

Class of Supply: 9



Description: The System Control Module (SCM) is a component of the M93 gas-particulate filter system which removes dust and toxic gases from the air supplied to the shelter. Major components of the system include a 100 cubic feet per minute fan, an M48 gas particulate filter and a system control module.

Use: The SCM is interconnected with the fan but mounted inside the shelter. It is powered by a 28 volt power supply housed in the fan. The SCM monitors the pressure differential between inside and outside the shelter, converts it to a DC voltage, and electronically conditions the signal so that it is of proper amplitude and polar to increase or decrease fan speed to maintain shelter pressure at 0.75 inches water gage.

Technical Manuals: 3-4240-315-20&P
11-5895-1218/SPAWAR

Field Manual: N/A

Collective Protection Equipment Command, Controls & Operations (CCO) Shelters



Modular Collective Protection Equipment Protective Entrance (PE)

NSNs:	Nomenclature:	Part Number:	LIN:	Class of Supply:
4240-00-229-2610	M10 PE	5-19-6201-40	H10908	2
4240-01-048-2923	M12 PE	5-19-6201-20	E11043	2
4240-01-155-9971	M13 PE	5-19-8835	N/A	2
4240-01-105-5521	M14 PE	5-19-6201-50	N/A	2
4240-01-185-6786	M15 PE	5-19-9190	N/A	2
4240-01-240-4367	M16 PE	5-19-9192	N/A	2
4240-01-283-0193	M18 PE	5-19-9416	N/A	9
4240-01-283-0192	M19 PE	5-19-9415	N/A	9
4240-01-283-0194	M20 PE	5-19-9417	N/A	9



Description: The PE consists of top and bottom shells, a door and frame assembly which supports the entrance front, and two support assemblies which support the rear, an impermeable fabric wall assembly connecting the top and bottom shells, and a protective cap that covers the inlet air duct.

Use: A PE, when used, provides a pressurized transition area between the protected enclosure and the surrounding contaminated atmosphere. It allows the shelter pressure to be maintained during entry and exit of the protected enclosure and while individual decontamination procedures are being performed.

Technical Manuals:

3-4240-284-20&P, -30&P M10
3-4240-286-20&P M12
3-4240-311-20&P M13
3-4240-332-20&P M20

Field Manual: N/A

3-4240-298-20&P, -30&P M14
3-4240-286-30&P M12
3-4240-318-20&P (M13, M15, M16 PEs)

Collective Protection Equipment Command, Controls & Operations (CCO) Shelters



Modular Collective Protection Equipment Matrix

MAJOR SYSTEMS		MODULAR COLLECTIVE PROTECTION EQUIPMENT (MCPE) (END ITEM APPLICATIONS MATRIX)																	
		GPFU						PROTECTIVE ENTRANCE						INSTALLATION KIT					
		M56	M59	M84	M87	M93	M95	M96	M10	M12	M13	M14	M15	M16	M18	M19	M262	M263	M265
1.	AN/GSG-10(V) TACFIRE S-490/492; Artillery Fire Direction Ctr Shelters 7010-01- 017-7039-7040							X									X		
2.	CPE, GUARDRAIL (5895-01-063-1916) w/M5 Static Freq Converter (4240--01- 394-9571)							X											
3.	TACFIRE- Upgrade Counterfire Equipment																		X
4.	AN/TSQ-73 Air Defense Cmd & Control System; Air Def Cmd & Control Sys Shelters (1425- 01-152-3520/3521	X							X									X	
5.	PATRIOT Shelters CPE (1430-01-087- 6337/1430-01-131- 5427)										X							X	
6.	I-HAWK, Guided Missile System										X								
7.	HAWK-FME (1430- 01-032-4329)																		
8.	TRAILBLAZER (5811- 01-165-7406/7408)	X								X									
9.	Forward Area Air Defense (FAAD) C21 (5895-01-6170 AN/TSQ-182); (5895- 01-387-5792 AN/TSQ 183A)														X				
10.	Joint Tactical Information Distribution System (JTIDS) (5895-01-054 4104)													X					
11.	Digital Topographic Support System (DTSS)																		
12.	Pershing II Electronic Shop Shelter (7021- 01-177-0790) & M5 Static Freq Converter (4240-00-394-9571)										X								

Collective Protection Equipment Command, Controls & Operations (CCO) Shelters



Modular Collective Protection Equipment Matrix

ITEM	CFM	NSN
M56 GPFU	200	4240-00-237-0227
M59 GPFU	400	4240-00-237-0223
M84 GPFU	200	4240-01-149-1719
M87 GPFU	400	4240-00-191-7234
M93 GPFU	100	4240-01-231-6515
M95 GPFU	200	4240-01-274-6355
M96 GPFU	400	4240-01-274-6356
M10 PE		4240-00-229-2610
M12 PE		4240-01-048-2923
M13 PE		4240-01-155-9971
M14 PE		4240-01-105-5521
M15 PE		4240-01-185-6786
M16 PE		4240-01-240-4367
M18 PE		4240-01-283-0193
M19 PE		4240-01-283-0192
M20 PE		4240-01-283-0194
M262 Inst Kit		4240-01-063-4655
M263 Inst Kit		4240-01-063-7679
M265 Inst Kit		4240-01-110-7617
M277 Inst Kit		4240-01-186-8423
Compartment Control Module		4240-01-057-3378
System Control Module		4240-01-234-2266
Control Module, GPFU		4240-01-158-5904
Power Distribution Unit		4240-01-068-8645
Static Frequency Converter		4240-01-394-9571



Collective Protection Equipment Filter Fan Assemblies (FFA)

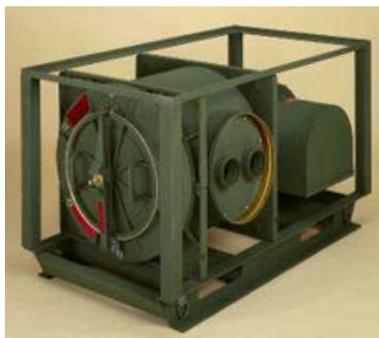
FFA400-100

NSN: 4230-01-485-6184

Part Number: FFA400

LIN: N/A

Class of Supply: 2



Description: The FFA400-100 is a compact, all weather, portable, positive pressure CBRN filtration system that can provide up to 400 cubic feet per minute of clean, safe, breathable air for mobile or permanent shelters. Stackable and transportable, the FFA400-100 is ideal for mobile command and medical shelters, as well as permanent shelters. The modular design of the FFA400-100 allows for multiple units to be combined for requirements greater than 400 CFM. The skid base framed construction allows for two units to be readily stacked, limiting the footprint of the system, minimizing footprint while transported or installed. The FFA400-100 consists of a blower, two M98, 200 CFM gas and particulate filter sets, a filter housing a frame assembly. The motor includes an integrated On/Off switch as well as a safety overload. Its rated airflow of 400 CFM may be adjusted by means of a manual flow control valve located on the blower inlet. The FFA400-100 is an ideal system for integration with tent complexes and environmental control systems, and as a part of fixed installations egress and ingress airlock system. A special "Y" cable has been added to allow the FFA400-100 to receive its power from the environmental control unit split phase connectors.

Use: The FFA400-100 is designed to remove toxic chemical and biological warfare agents in gaseous (vapor) and aerosol (particulate) forms from the air stream, while providing toxic free environment to personnel or equipment by creating positive pressure in the toxic free area. This FFA is used with the Air Force Transportable Hospitals.

Technical Manual: N/A

Field Manual: N/A



Collective Protection Equipment Filter Fan Assemblies (FFA)

FFA400-300

NSN: N/A

Part Number: FFA400

LIN: N/A

Class of Supply: 2



Description: The FFA400-300 is the third generation of the FFA400-100. It is a compact, all weather, man portable and stackable positive pressure CBRN filtration system. The FFA400-300 provides up to 400 cubic feet per minute of clean, safe, breathable air for mobile and permanent shelters for applications such as command or medical. The FFA400-300 consists of a passive inertial particle separator, an internal, variable speed motor-blower assembly, two M98, 200 CFM gas and particulate filter sets, and a filter housing equipped with integrated captured hardware mounted into a composite container. The variable speed motor-blower assembly is mounted internally to the filter housing. The motor controller unit is capable of receiving external speed signal from an auxiliary device such as the built-in constant flow or the pressure control, system control module used on the M93 Gas Particulate Filter Unit. The motor speed is varied electronically to maintain constant flow (400 ± 20 -CFM) under variable temperature and altitude conditions and as the filters get loaded. The system is equipped with a corded handheld remote control, which includes the On/Off switches, system performance indicator, as well as fault conditions. The FFA400-300 is an ideal system for integration with lightweight expeditionary tent systems and mobile shelters. The FFA400-300 includes a special 'Y' cable that has been added to allow the FFA400-300 to receive its power from the environmental control unit split phase connectors. It is also supplied with two 4" ID x 7' long chemical resistant air supply ducts. The ducts, the 'Y' cable and the system manual are conveniently stored within the system container.

Use: The FFA400-300 is designed to remove toxic chemical and biological warfare agents in gaseous (vapor) and aerosol (particulate) forms from the air stream, while providing toxic free environment to personnel or equipment by creating positive pressure in the toxic free area. This FFA is used with the Air Force Transportable Hospitals.

Technical Manual: N/A

Field Manual: N/A



Collective Protection Equipment Filter Fan Assemblies (FFA)

FFA400-400

NSN: 4230-01-485-6184

Part Number: FFA400

LIN: N/A

Class of Supply: 2



Description: The FFA400-400 is the third generation of the FFA400-100. It is a compact, all weather, wall mounted positive pressure CBRN filtration system. The FFA400-400 provides up to 400 cubic feet per minute of clean, safe, breathable air for mobile and permanent hard wall shelters for applications such as command, communications or medical. The FFA400-400 consists of a passive inertial particle separator, an internal, variable speed motor-blower assembly, two M98, 200 CFM gas and particulate filter sets, and filter housing equipped with integrated captured hardware and a mounting cradle. The variable speed motor-blower assembly is mounted internally to the filter housing. The motor controller unit is capable of receiving external speed signal from an auxiliary device such as the built-in constant flow or the pressure control, system control model used on the M93 Gas Particulate Filter Unit (GPFU). The motor speed is varied electronically to maintain constant flow (400 ± 20 -CFM) under variable temperature and altitude conditions and as the filters get loaded. The system is equipped with a corded handheld remote control, which includes the On/Off switches, system performance indicator, as well as fault conditions. The FFA400-400 is an ideal system for integration with hard wall, expendable, or fixed site command and control or communication shelters.

Use: The FFA400-400 is designed to remove toxic chemical and biological warfare agents in gaseous (vapor) and aerosol (particulate) forms from the air stream, while providing toxic free environment to personnel or equipment by creating positive pressure in the toxic free area. This FFA is used with the Air Force Transportable Hospitals.

Technical Manual: N/A

Field Manual: N/A



Collective Protection Equipment Filter Fan Assemblies (FFA)

FFA400-500

NSN: N/A

Part Number: FFA400

LIN: N/A

Class of Supply: 2



Description: The FFA400-500 is the second generation of the FFA400-100. It is a compact, all weather, portable, positive pressure CBRN filtration system that can provide up to 400-cfm of clean, safe, breathable air for mobile or permanent shelters. It is stackable and transportable; the FFA400-500 is ideal for mobile command and medical shelters, as well as permanent shelters. The modular design of the FFA400-500 allows for multiple units to be combined for requirements greater than 400 cubic feet per minute. The skid base framed construction allows for two units to be readily stacked, during operation or transportation. The FFA400-100 consists of a passive inertial particle separator, blower driven by a variable speed motor, two M98, 200 CFM gas and particulate filter sets, filter housing and a frame assembly. The motor speed is varied electronically to maintain constant flow (400 ± 20 -CFM) under variable temperature and altitude conditions and as the filters get loaded. The speed control unit is capable of receiving external speed signal from an auxiliary device such as the pressure control, system control module used on the M93 Gas Particulate Filter Unit (GPFU). The system is equipped with a corded handheld remote control, which includes the On/Off switches, system performance indicator, as well as fault conditions. The FFA400-500 is an ideal system for integration with tent complexes and environmental control systems, and as a part of fixed installations egress and ingress airlock system. A special 'Y' cable has been added to allow the FFA400-500 to receive its power from the environmental control unit split phase connectors.

Use: The FFA400-500 is designed to remove toxic chemical and biological warfare agents in gaseous (vapor) and aerosol (particulate) forms from the air stream, while providing toxic free environment to personnel or equipment by creating positive pressure in the toxic free area. This FFA is used with the Air Force Transportable Hospitals.

Technical Manual: N/A

Field Manual: N/A



Collective Protection Equipment Filter Fan Assemblies (FFA)

FFA580-100

NSN: 4230-01-101-3611

Part Number: 106441

LIN: N/A

Class of Supply: 2



Description: The FFA580-100 is a compact, all weather, portable, positive pressure chemical, biological, radiological, nuclear (CBRN) filtration system that can provide up to 600 cubic feet per minute of clean, safe, breathable air for mobile or permanent shelters. It is both stackable and air droppable; the FFA580-100 is ideal for mobile command and medical shelters, as well as permanent shelters. The modular design of the FFA580-100 allows for multiple units to be combined for requirements greater than 600 CFM. The skid base framed construction allows for two units to be readily stacked, limiting the footprint of the system, minimizing footprint while transported or installed. The FFA580-100 consists of a blower, three M98, 200 CFM gas and particulate filter sets, filter housing and a frame assembly. Its rated airflow of 600 CFM may be adjusted by means of a manual flow control valve located on the blower inlet.

Use: The FFA580-100 is designed to remove toxic chemical and biological warfare agents in gaseous (vapor) and aerosol (particulate) forms from the air stream, while providing toxic free environment to personnel or equipment by creating positive pressure in the toxic free area (TFA). The FFA580-100 was originally designed for the U.S. Air Force's KMU-450 collective protection system and adapted to the Survivable Collective Protection System (SCPS). In recent years the system was adapted to the CP-EMEDS and as a part of fixed installations egress and ingress airlock system.

Technical Manual: N/A

Field Manual: N/A



Collective Protection Equipment Filter Fan Assemblies (FFA)

FFA1000-100/200

NSNs: 4230-01-485-6185
4230-01-485-6183

Part Number: FFA1000-100
FFA1000-200

LIN: N/A

Class of Supply: 2



Description: The FFA1000 is an all weather, transportable, positive pressure CBRN filtration system that can provide up to 1000 cubic feet per minute of clean, safe, breathable air for permanent or semi-permanent transportable shelters. The -100 version consists of a motor/fan assembly, filter housing with five M98, 200 CFM gas and particulate filter sets, and a frame assembly, making the system self-supported and easily transportable. Its rated airflow of 1000 CFM may be adjusted by means of a manual flow control valve located on the blower inlet. Multiple units can be stacked and nested to create large air supply unit with multiple air sources. The -200 version includes the filter housing and hosing support only - making it a modular unit that can be stacked and nested to create a large capacity filtration unit. The nested assembly can then be supplied with air from a single source. The small size and light weight of the FFA1000-200 allows for easy maneuverability by two people and can be carried into a building and through standard (30") doors. These features allow the installation of a large capacity system without the use of cranes or special equipment. The skid-less and frameless construction allows the FFA1000-200 to be configured in various ways.

Use: The FFA1000-100/200 is designed to remove toxic chemical and biological warfare agents in gaseous (vapor) and aerosol (particulate) forms from the air stream, while providing a toxic free environment to personnel or equipment by creating positive pressure in the toxic free area (TFA). The FFA1000 and its variations have been implemented into various government buildings military and civilian facilities in the U.S.A. and around the world.

Technical Manual: N/A

Field Manual: N/A



Collective Protection Equipment Fixed Installation Filter

M49 Fixed Installation Filter

NSN: 4240-01-312-9146

Part Number: 5-19-11282

LIN: N/A

Supply Class: 9



Description: The modular 600 cubic feet per minute (CFM) and 1200 CFM gas filter assemblies are comprised of a series of stackable, refillable, stainless steel carbon trays, each with 120 CFM capacity. The 600 CFM gas filter assembly uses five of these stackable carbon trays, and the 1200 CFM uses 10 trays.

Use: Fixed Installation Filters (FIF) are designed to provide larger capacity CBRN filtration for hardened fixed sites, shelters, underground shelters for command and control, medical rest and relief. The FIF system allows personnel to perform their duties unencumbered by individual protection equipment inside the shelter.

Technical Manual: UFC 4-024-01 (AF)
(Draft 06 June 2007)

Field Manual: N/A



Collective Protection Equipment

Miscellaneous Common Filters/Components

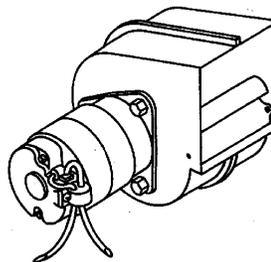
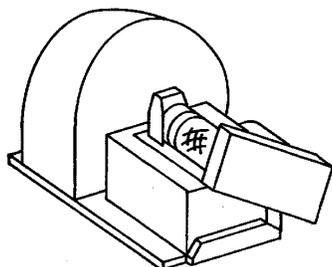
System Control Module/Centrifugal Fan

NSN: 4140-01-333-3919 (System control module)
LIN: N/A

Part Number: 5-19-9118
Supply Class: 9

NSN: 4140-01-390-4104 (Centrifugal Fan)
LIN: N/A

Part Number: 03989-44-001
Supply Class: 9



Description: The Centrifugal Fan is a non-positive displacement mechanical device having a centrifugal fan impeller enclosed within housing. It is designed to move air or gas over a wide range of volumes and pressures. The air or gas is drawn in axially and discharged radially or drawn in radially and discharged axially by centrifugal force through an outlet in the housing.

Use: The centrifugal fan is a major component of the M93 Gas Particulate Filter Unit. It is designed to produce airflow of 100 cubic feet per minute at a head of 10 inches water gage.

Technical Manual: 3-4240-302-30&P-8 **Field Manual:** N/A



Collective Protection Equipment Miscellaneous Common Filters/Components

Hermetically Sealed Filter Canister

NSN: 4240-01-178-9936

Part Number: 5-19-6767

LIN: N/A

Supply Class: 9



Description: The Hermetically Sealed Filter Canister (HSFC) removes chemical or biological agents from the air stream passing through it.

Use: The HSFC is connected to the motor blower by the short air duct and to the Simplified Collective Protection Equipment (SCPE) liner through the protective entrance by the long air duct (not shown). The HSFC is hermetically sealed until pull tabs are removed. It is used by the Army, Marines and Navy.

Notes: It is vital that the HSFC for SCPE be fully serviceable. The operator is responsible for notifying unit maintenance for replacement in accordance with filter change criteria contained in FM 3-11.4. Total inspection of the HSFC is also performed by the operator to include investigation of any damaged areas such as cracks, dents or holes in seamed areas and/or water damage around the pull tabs.

Technical Manual: N/A

Field Manual: 3-11.4



Collective Protection Equipment Miscellaneous Common Filters/Components

M3 Heater

NSN: 4240-00-807-6856

Part Number: 5-19-1782

LIN: N/A

Supply Class: 9



Description: The M3 Heater is a component in the M13A1 Gas Particulate Filter Unit (GPFU). It warms the air moving from the filter to the user mask when operating in cold weather conditions. The heater can warm up to 4.5 cubic feet per minute of air to as high as 120 degrees Fahrenheit, and is capable of doing this for 250 consecutive hours. A controller mounted over the airflow tube allows adjustment of the temperature to fit user needs. The position of the controller can also be adjusted to fit into the space provided for it in the vehicle.

Use: This item is a component of the M13A1 GPFU, installed in the M1 Series Abrams Tanks and Stryker vehicles. Filtered air flows into the heater and is warmed as it passes through to the user's mask.

Technical Manual: N/A

Field Manual: N/A



Collective Protection Equipment

Miscellaneous Common Filters/Components

M12A2 Gas Filter

NSN: 4240-01-365-0981

Part Number: 5-19-2295

LIN: N/A

Supply Class: 9



Description: The M12A2 Gas Filter is rectangular, and air flows evenly into the filter through small holes on the exterior. The M12A2 and the M13 are the smallest and lowest flow combination filters used for chemical, biological, radiological, nuclear collective protection.

Use: The M12A2 Gas Filter removes toxic chemical agents from air flowing through it at up to 12 cubic feet per minute. It is a component of the M2A2 Air Purifier, which is a component of the M8A3 and M14 Gas Particulate Filter Units.

Technical Manual: 3-4240-276-30&P

Field Manual: 3-11.4



Collective Protection Equipment

Miscellaneous Common Filters/Components

M13 Particulate Filter, 12 CFM

NSN: 4240-00-368-6291

Part Number: 5-19-853

LIN: N/A

Supply Class: 9



Description: The M13 Filter is rectangular, and air flows evenly into the filter through small holes on the exterior. Biological organisms are caught in the filter media, and clean air is released through holes on the other side of the filter.

Use: The M13 Particulate Filter removes biological agents from air passing through it at up to 12 cubic feet per minute. It is a component of the M2A2 Air Purifier, which is a component of the M8A3 and M14 Gas Particulate Filter Units (GPFUs). The M13 is thus used in older model tanks, the M113 Armored Personnel Carrier, the M109 Howitzer, and the M88 Recovery Vehicle.

Technical Manual: 3-4240-276-30&P

Field Manual: 3-11.4



Collective Protection Equipment Miscellaneous Common Filters/Components

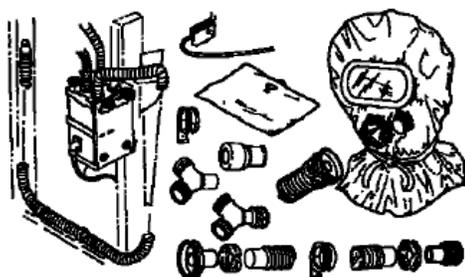
M13A1 Hospital Headpiece

NSN: 4240-00-763-2464

Part Number: 5-70-23

LIN: N/A

Supply Class: 9



Description: The item is a collective protective hospital headpiece for the gas particulate filter unit. It consists of a mounting canister, gasket, wire clamp, a retainer and outlet valve, the hood assembly, valve, outlet, and C19 assembly.

Use: This item is used as a component of the M14 Gas Particulate Filter Unit to remove toxic chemical and biological agents from contaminated air and supply purified air to six or fewer occupants of an armored ambulance.

Technical Manual: N/A

Field Manual: N/A



Collective Protection Equipment Miscellaneous Common Filters/Components

M18A1 Gas Filter

NSN: 4240-01-365-0982

Part Number: 5-19-2300

LIN: N/A

Supply Class: 9



Description: Contaminated air enters the inner tube of the filter and is drawn through the carbon bed. The carbon bed will then absorb the gas particles and clean air will exit the filter. The M18A1 uses environmentally compatible ASZM-TEDA carbon, which can be disposed of legally in all states.

Use: This item is a component of the M13A1 Gas Particulate Filter Unit (GPFU), which provides 10 cubic feet per minute of breathable air to four soldiers in an M1 Series Tank or similar vehicles. Two filters are required per GPFU. The M13A1 removes toxic chemical agents in vapor or gaseous forms.

Technical Manual: N/A

Field Manual: 3-11.4



Collective Protection Equipment Miscellaneous Common Filters/Components

M19 Particulate Filter

NSN: 4240-00-866-1825

Part Number: 5-19-1175

LIN: N/A

Supply Class: 9



Description: The M19 Particulate Filter is rectangular, and air flows evenly into the filter through small holes on the exterior. Biological organisms are caught in the filter media, and clean air is released through holes on the other side of the filter. The M19 Particulate Filter is designed to remove biological agents from air passing through it at up to 20 cubic feet per minute. It is a component of the M1A1-19 Precleaner, which is a component of the M13A1 Gas Particulate Filter Unit (GPFU).

Use: The M19 Particulate Filter is used in the M1 Series Tanks, Stryker vehicles, and other similar systems as a component of the M131A1 GPFU.

Technical Manual: 3-4240-276-30&P

Field Manual: 3-11.4



Collective Protection Equipment

Miscellaneous Common Filters/Components

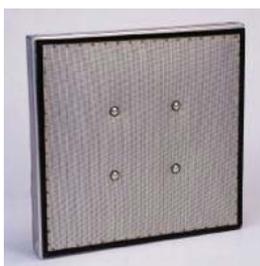
M23A1 Gas Filter

NSN: 4240-01-363-1310

Part Number: 5-19-2298

LIN: N/A

Supply Class: 9



Description: While the 150 Cubic Feet per Minute (CFM) M23A1 gas-particulate filter set is ideal for medium airflow applications, it can be applied with success to higher airflow applications. The single M23A1 filter set is used to provide positive pressure in vehicles such as the Multiple Launch Rocket System. Multiple M23A1 filter sets are used to provide over pressure protection in shelters such as with the M18, 300 CFM filter system. The M23A1 gas filter uses ASZM-TEDA carbon to remove toxic agents in gaseous and vapor form not removed by the particulate media.

Use: The M23A1 chemical, biological, radiological, nuclear (CBRN) filter set removes toxic gases and particulates to provide purified air for a variety of applications, including mobile shelters and vehicles at a rate of 150 CFM.

Technical Manual: 3-4240-264-12
3-4240-264-20&P
3-4240-264-34
3-4240-264-34&P

Field Manual: 3-11.4



Collective Protection Equipment Miscellaneous Common Filters/Components

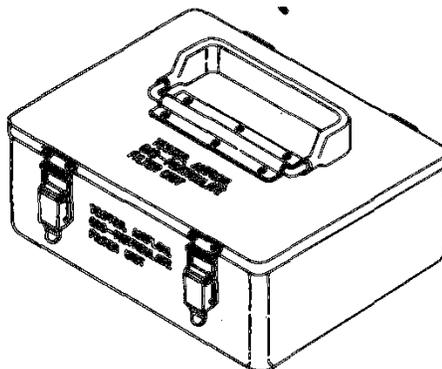
M39 Tester

NSN: 6680-00-436-4212

Part Number: 5-77-2120

LIN: W02526

Supply Class: 2



Description: The M39 Tester is a one-man portable unit mounted in a carrying case. It measures air pressure within the range of 0 to 6 inches of water (0 to 5 cubic feet per minute airflow).

Use: To measure airflow at each chemical and biological protective mask station in installations and vehicles using these Gas Particulate Filter Units (GPFUs):

M7A1 GPFU

M13 GPFU

M8 GPFU

M14 GPFU

Technical Manual: 3-6680-316-10

Field Manual: N/A



Collective Protection Equipment

Miscellaneous Common Filters/Components

M48A1 Gas Particulate Filter (GPF)

NSN: 4240-01-363-1311

Part Number: 5-19-7435

LIN: N/A

Supply Class: 9



Description: The M48A1 GPF is a 100 cubic feet per minute unit and contains ASZM-TEDA carbon that does not contain any hazardous waste. However, before discarding an M48A1 you must check with your local environmental office before disposing of the filter to ensure that the carbon meets state hazardous waste criteria. These filters contain gas and particulate filters which remove chemical and biological agents and radioactive particles.

Use: The M48A1 GPF is used by the M1A1 series Abrams tanks as a component of the CBRN Garrett system. It is also used by the Paladin and M93 Gas Particulate Filter Unit.

Technical Manual: 3-4240-325-20&P

Field Manual: 3-11.4



Collective Protection Equipment

Miscellaneous Common Filters/Components

M98 Gas Particulate Unit

NSN: 4240-01-369-6533

Part Number: 5-19-6722

LIN: N/A

Supply Class: 9



Description: The M98 filter set is a 200 cubic feet per minute (CFM) unit which is packaged and changed out as a unit. It consists of a high efficiency particulate arresting (HEPA) filter nested inside a gas absorber. The HEPA filter is a pleated media filter for removing solid and aerosol CBRN contaminants. The gas absorber contains activated charcoal for removing chemical warfare gases. The two components together remove any traditional chemical or biological agents from the air stream passing through the filter before going to users. M98s are installed in wide variety of shelters used by the Army, and are also used aboard Navy ships and at Air Force field hospitals. A Hermetically Sealed Filter Canister version is also manufactured for use with collective protection equipment.

Use: To provide 200 CFM of air protected from all traditional chemical and biological agents. The M98 filter sets are a component of the M56, M59, M84, M87, M95 and M96 filtration systems as well as the filter fan assembly series of collective protection systems used by the Navy, Air Force and Army for building protection and other transportable shelters.

Technical Manual: MIL-PRF-51526
MIL-PRF-51226

Field Manual: N/A



Collective Protection Equipment Miscellaneous Common Filters/Components

Recirculation Filter Unit

NSN: 4240-01-348-5257

Part Number: 5-19-10878

LIN: N/A

Supply Class: 9



Description: The recirculation filter is a portable self-contained unit. The recirculation filter blower motor operates from a 115 VAC 50/60 Hz electrical source. It is a component of various collective protection equipment.

Use: It is used to filter any residual CBRN contaminants inside a deployed SCPE shelter.

Technical Manual: 3-4240-313-10

Field Manual: 3-11.4



Collective Protection Equipment Shipboard Collective Protection

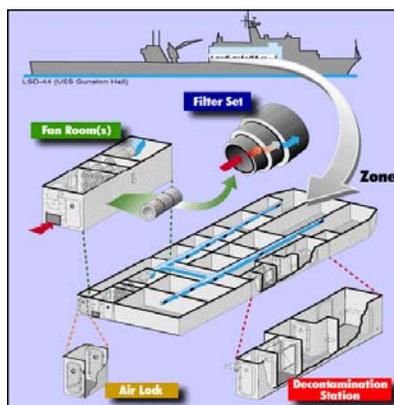
Collective Protection Systems Backfit Program

NSN: N/A

Part Number: N/A

LIN: N/A

Class of Supply: 9



Description: The shipboard Collective Protection System (CPS) Backfit Program was created to provide additional collective protection capabilities to existing amphibious class ships allowing personnel to perform mission critical operations in a CBRN environment.

Use: The program installs additional CPS toxic free zones in critical areas including medical, command and control, rest and relief, and casualty collecting areas. Personnel working in these protected areas do not have to wear individual protective equipment during or after a CBRN attack.

Technical Manual: U.S. Navy CBR Filter System **Field Manual:** N/A
O&M Manual SS200-AG-MMM-010



Collective Protection Equipment

Shipboard Collective Protection

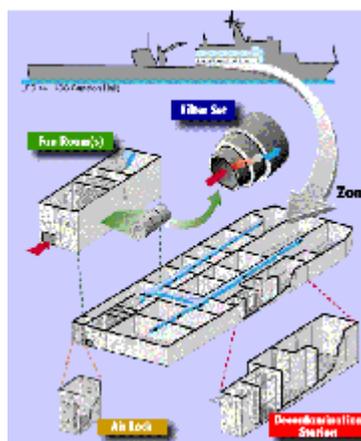
Shipboard Collective Protection Systems (CPS)

NSN: N/A

Part Number: N/A

LIN: N/A

Class of Supply: 9



Description: This system was created to provide additional collective protection capabilities to existing amphibious class ships allowing personnel to perform mission critical operations in a CBRN environment.

Use: The program installs additional CPS toxic free zones in critical areas including medical, command and control, rest and relief, and casualty collecting areas. Personnel working in these protected areas do not have to wear individual protective equipment during or after a CBRN attack.

Technical Manual: U.S. Navy CBR Filter System
O&M Manual SS200-AG-MMM-010

Field Manual: N/A



Collective Protection Equipment Transportable

Chemical Biological Protected Systems (CBPS)

NSN: 5410-01-441-8054 (Green)
5410-01-482-4633 (Tan)

Part Number: 17-1-9220-1 (Green)
17-1-9220-1 (Tan)

LIN: C07506

Class of Supply: 7



Description: The CBPS is a highly mobile, chemically and biologically protected, environmentally controlled work area for forward deployed medical treatment units. The CBPS allows the unit to continue patient care when the unit comes under chemical or biological attack. CBPS consists of a dedicated M113 Humvee vehicle; a lightweight multipurpose shelter, a 300 square foot semi-cylindrical air beam supported soft shelter, stored and mounted on the back of the Humvee for transporting; and a towed high-mobility trailer with 10-kilowatt tactical quiet generator for auxiliary power. Unit soldiers can configure multiple systems to provide a single chemical biological protected area.

Use: A single CBPS system can be inflated in four minutes and fully operational in less than 20 minutes. All power is provided by the Humvee engine or from the auxiliary generator. A hydraulically powered environmental support system on the front of the shelter provides heating, cooling, airbeam inflation, chemical-biological filtration and ventilation air. Multiple systems can be complexed.

Technical Manual: 10-5410-228-10
10-5410-228-24
10-5410-228-24&P

Field Manual: 3-11.34
4-02.7



Collective Protection Equipment Transportable

Collective Protection System for the Modular General Purpose Tent System

NSN:	Part Number: N/A
Type I (Tan)	Type I (Green)
8340-01-491-1507 (small)	8340-01-456-3633 (small)
8340-01-491-1515 (medium)	8340-01-456-3628 (medium)
8340-01-491-1479 (large)	8340-01-456-3674 (large)
Type II (Tan)	Type II (Green)
8340-01-516-6859 (small)	8340-01-516-6860 (small)
8340-01-516-6864 (medium)	8340-01-516-6861 (medium)
8340-01-516-6865 (large)	8340-01-516-6863 (large)

LIN: N/A

Class of Supply: 7



Description: The Collective Protection System (CPS) integrates into the Modular General Purpose Tent System (MGPTS) and provides a clean-air shelter for use against chemical and biological warfare agents and radioactive fallout. Major components: Modified M28 Collective Protection Equipment protective liner and floor, 200 cubic feet per minute hermetically sealed filter canister, M28 support kit (includes blower), recirculation filter assembly, accessory kit, tunnel airlock litter patient, and an integrated airlock. User is the U.S. Marine Corps. Note: the USMC has no further plans to buy this item and is holding remaining stocks in inventory in the event that they are needed.

Use: The CPS provides CBRN particle collective protection to Operating Forces in threat areas while deployed

Technical Manual: 10-8340-240-12&P

Field Manual: N3-11.34
4-01.7



Collective Protection Equipment Transportable – Field Hospitals

Chemically Protected Expeditionary Medical Support (CP-EMEDS)

NSN: N/A

Part Number: N/A

LIN: N/A

Class of Supply: N/A



Description: Consists of Modified M28 Collective Protection Equipment liner sections, Field deployable Environmental Control Units or as a substitute, the Lightweight Environmental Control Unit. 400 Cubic Feet per Minute (CFM) Fan Filter Assemblies, Bump through Door Airlocks, 580 CFM FFA for the Bump Through Door Airlock, 200 CFM M98 Gas Particulate Filter Sets and Collectively Protected Expeditionary Latrine.

Use: The CP-EMEDS is kitted collective protection equipment that provides the U.S. Air Force's Expeditionary Medical Support (EMEDS) Hospital Increments the capability to sustain medical operations in a CBRN environment. It integrates environmentally controlled collective protection elements into the U.S. Air Force's 32ft Small Shelter System. It provides collective protection capability to EMEDS Hospital Increments allowing medical operations in CBRN threat environments.

Technical Manual: AFI 10-204

Field Manual: 3-11.34
3-11.5
4.02.7



Collective Protection Equipment Transportable

Collectively Protected Small Shelter System (CP-SSS)

NSN: N/A

Part Number: N/A

LIN: N/A

Class of Supply: N/A



Description: The CP-SSS provides chemical and biological agent protection inside the shelter to create a “shirt-sleeve” environment unencumbered by the stresses of individual protection equipment.

Use: The CP-SSS when properly employed provides a toxic free area in which personnel can conduct operations, maintain critical equipment, rest, eat, and sleep. The CP-SSS can be combined together to increase the capacity to suit operations. These systems are transportable and are compatible with 463L pallets. They are used near mission critical facilities to protect and provide rest and recuperation for sortie generators and Command and Control for key leadership.

Technical Manual: N/A

Field Manual: N/A



Collective Protection Equipment Transportable

Joint Expeditionary Collective Protection (JECP)

NSN: 4240-01-346-2564

Part Number: 89005A0000

LIN: N/A

Class of Supply: N/A

Picture Not Available

Description: The Portable Collective Protection System (PCPS) consists of Protective Shelter, Hermetically Sealed Filter Canister (HSFC), and Support Kit. The Protective Shelter consists of a tent with one main area and two smaller compartments fly cover, supporting frame and carrying bag. The Shelter is 43 feet long, 13 feet wide and 7 feet high erected, and will house 12 to 15 persons. The Science Applications International Corporation is the development contractor for this system with a planned Milestone C and Low Rate Initial Production in March 2012. JECP is a U.S. Marines managed system.

Use: The JECP is used to provide protective shelter for 12 to 15 persons.

Technical Manual: N/A

Field Manual: N/A



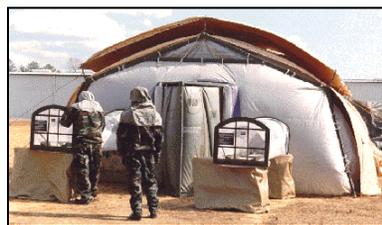
Collective Protection Equipment Transportable

M28 Collective Protection Equipment (CPE)

NSNs:	Nomenclature:	Part Number:
4240-01-330-7807	NBC, Tent, M28 CPE, 16 ft	5-19-11321-40
4240-01-330-7808	NBC, Tent, M28 CPE, 32 ft	5-19-11321-30
4240-01-331-2922	NBC, Tent, M28 CPE, 48 ft	5-19-11321-20
4240-01-331-2923	NBC, Tent, M28 CPE, 64 ft	5-19-11321-10

LIN: N/A

Class of Supply: 2



Description: To provide CBRN protection, a higher pressure must exist inside the shelter than outside the shelter. The airflow that causes the pressure must pass through the Hermetically Sealed Filter Canister (HSFC). Small leaks in the shelter will have no effect as long as pressure is maintained inside the shelter. When the system is pressurized, almost all airflow back into the shelter will flow back through Protective Entrance (PE) or tunnel airlock to the contaminated exterior. The blower inflates the shelter to a pressure of 0.6 inches of water gage (iwg). Vents between shelter and the PE are adjusted for 0.6 iwg in shelter, and vents between PE and outside are adjusted for pressure of 0.3 iwg in PE. Clean air flowing from shelter to outside through PE purges toxic vapors from PE.

Use: The M28 CPE is an inflatable shelter system used in conjunction with the Tent Extendable Modular Personnel for medical or command post missions so personnel can perform their duties unencumbered by individual protective equipment. Its modular liner sections and airlocks allow for a variety of protective area configurations.

Technical Manual: 3-4240-338-13&P **Field Manual:** 3-11.34
4-02.7



Collective Protection Equipment Ventilated Face Piece [VFP] Equipment

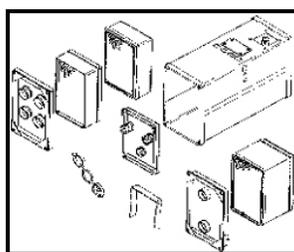
M1A1-19 Precleaner and Particulate

NSN: 4240-01-026-3112

Part Number: 5-19-2353

LIN: N/A

Class of Supply: 9



Description: The M1A1-19 delivers up to 20 cubic feet per minute and consists of a two hose socket manifold assembly, M19 particulate filter, housing and precleaner assembly, and a spring clip. It is a component of the M13A1 Gas Particulate Filter Unit (GPFU).

Use: The M1A1-19 removes toxic chemical and biological agents from contaminated air and supplies purified air as part of GPFU systems. It is used with the M1A1 series Abrams tanks and Stryker vehicles.

Technical Manual: 3-4240-276-30&P

Field Manual: 3-11.4

Collective Protection Equipment Command, Controls & Operations (CCO) Shelters



Ventilated Facepiece Matrix

VFP Matrix		M12A2 Gas Filter	M13 Particulate Filter	M18A1 Gas Filter	M19 Particulate Filter	M13A1 GPFU Sub-Assy	M8A3 GPFU Sub-Assy	M14 GPFU Sub-Assy
		NSN: 4240-01-365-0981	NSN: 4240-00-368-6291	NSN: 4240-01-365-0982	NSN 4240-00-866-1825	NSN: 4240-00-964-9061	NSN: 4240-00-853-3201	NSN: 4240-00-010-5267
		M12A2 is a component of M2A2 Air Purifier (4240-00-868-7906)	M13 is a component of M2A2 Air Purifier (4240-00-868-7906)	M18A1 is a component of M13A1 GPFU, NSN: 4240-00-964-9061	M19 is a component of M1A1-19 Precleaner (4240-00-026-3112) which is a component of M13A1 GPFU	Consists of: M1A1-19 Precleaner (4240-01-026-3112); two M18A1 Gas Filters; M3 Heater and misc. components (Hoses, etc.)	AKA M2A2 Air Purifier (4240-00-868-7906) which consists of M12A2 Gas Filter, M13 Particulate Filter and other misc. components.	Consists of M2A2 Air Purifier, M13 Part. Filter, M12A2 Gas Filter, M13A1 Headpieces & Carriers, Hose Assemblies and Installation Hardware.
END ITEM	End Item NSN							
M58 Smoke Generator	1040-01-413-8332	1	1				1	
Armored Vehicle Launched Bridge	5420-00-522-9599	1	1				1	
Armored Vehicle Launched Bridge	5420-01-390-3933	1	1				1	
M730A2 Carrier (Chapparal)	1450-01-207-6408			2	1	1		
M993A1 Multiple Launch Rocket System	2350-01-091-5405			2	1	1		
M996A1 Armored Ambulance	2310-01-372-3935			2	1	1		
M997A1 Armored Ambulance	2310-01-372-3934			2	1	1		
M996A2 Armored Ambulance	2310-01-380-8228			2	1	1		
M1010 Ambulance Truck	2310-01-123-2666			2	1	1		
M728 Combat Engineer Vehicle	2350-00-795-1797			2	1	1		
M551 Armored Assault Vehicle	2350-00-873-5408	1	1				1	
M551A1 Armored Assault Vehicle	2350-00-140-5151	1	1					1
M551 NTC	2350-00-115-1579	1	1				1	
M1 Tank	2350-01-061-2445			2	1	1	1	
IPM1 Tank	2350-01-136-8738			2	1	1		
M2 Bradley Fighting Vehicle	2350-01-048-5920			2	1	1		
M2A1 Bradley Fighting Vehicle	2350-01-179-1027			2	1	1		
M3 Bradley Fighting Vehicle	2350-01-049-2695			2	1	1		
M3A1 Bradley Fighting Vehicle	2350-01-179-1028			2	1	1		
M901A1 Anti-Tank Vehicle	2350-01-103-5641			2	1	1		
M901 Improved TOW Vehicle	2350-01-045-1123			2	1	1		
M992A1 Ammo Carrier	2350-01-352-3201			2	1	1		
M110A2 Self-Propelled Howitzer	2350-01-041-4590	1	1				1	
M109A2 Self-Propelled Howitzer	2350-01-031-0586	1	1				1	
M109A3 Self-Propelled Howitzer	2350-01-031-8851	1	1				1	
M109A4 Self-Propelled Howitzer	2350-01-277-5770	1	1				1	
M109A5 Self-Propelled Howitzer	2350-01-281-1719	1	1				1	
M113A3 Armored Personnel Carrier	2350-01-219-7577	1	1					1
M88A2 Recovery Vehicle	2350-01-390-4683	1	1					1



Collective Protection Equipment Ventilated Face Piece [VFP] Equipment

M2A2 Air Purifier

NSN: 4240-00-868-7906

Part Number: 5-19-1772

LIN: N/A

Class of Supply: 9



Description: The M2A2 Air Purifier delivers up to 12 cubic feet per minute and consists of a four socket manifold assembly with airflow control caps, M12A1 gas filter, M13 particulate filter, housing and M1A1 pre-cleaner assembly, and a spring clip. The M1A1-19 Air Purifier has a three socket manifold assembly. It removes toxic chemical and biological agents from contaminated air and supplies purified air as part of gas particulate filter unit systems. These systems are installed in various military vehicles to provide air directly to users through their mask or headpiece.

Use: It is used in various military vehicles supplying filtered air via hoses to the tank crew's protective masks, providing those individuals with protection against CBRN agents.

Technical Manual: 3-4240-276-30&P

Field Manual: 3-11.4

Collective Protection Equipment Ventilated Face Piece [VFP] Equipment

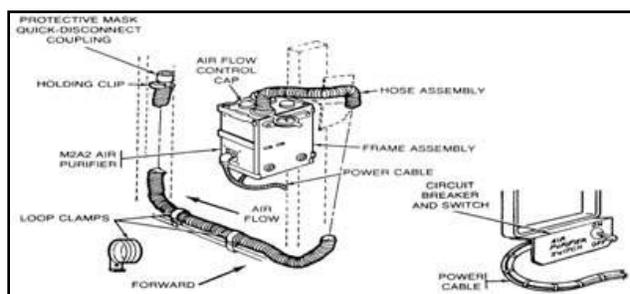
M8A3 Gas Particulate Filter Unit (GPFU)

NSN: 4240-00-853-3201

Part Number: 5-19-1779

LIN: N/A

Class of Supply: 9



Description: The M8A3 12 cubic feet per minute tank gas particulate filter unit consists of an M2A2 air purifier, a circuit breaker and switch, four air hose assemblies with quick-disconnect couplings, a frame assembly and a spring clip for the air purifier, a power cable, loop clamps and holding clips for the hoses, and common hardware.

Use: It is used to remove toxic chemical and biological agents from contaminated air and supply purified air through the tank masks of the crew members of armored vehicles

Technical Manual: 3-4240-276 30&P

Field Manual: 3-11.4

DMWR: 3-4240-287



Collective Protection Equipment Ventilated Face Piece [VFP] Equipment

M13A1 Gas Particulate Filter Unit (GPFU)

NSN: 4240-00-964-9061

Part Number: 5-19-3051

LIN: N/A

Class of Supply: 9



Description: The M13A1 GPFU consists of an M1A1-19 precleaner and particulate filter assembly, two M18 (10 cubic feet per minute) gas filters, a circuit breaker and switch, four M3 electric air heaters, rubber air hoses and hose assemblies, and installation hardware such as a frame assembly, cables, loop clamps, ratchet clamp, holding clips, elbows, and tees.

Use: The M13A1 is used to remove toxic chemical and biological agents from contaminated air and supply purified air through the masks of the tank crew members of armored vehicles such as the M1A1 series Abrams tanks and Stryker vehicles.

Technical Manual: 3-4240-276 30&P

Field Manual: 3-11.4

DMWR: 3-4240-276-287



Collective Protection Equipment Ventilated Face Piece [VFP] Equipment

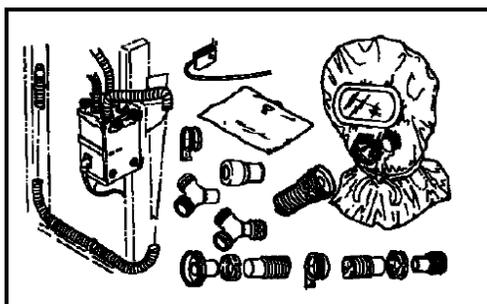
M14 Gas Particulate Armored Ambulance Filter Unit

NSN: 4240-00-010-5267

Part Number: 5-19-1828

LIN: H48896

Class of Supply: 2



Description: The M14 Gas Particulate Filter Unit consists of an M2A2 air purifier, a circuit breaker and switch, air hose assemblies, six M13A1 hospital collective protector headpieces with carriers, and installation hardware.

Use: The M14 is a mobile collective protection system mounted in M113A1 armored personnel carrier/ambulance supplying filtered air via hoses to crew's protective masks, providing those individuals with protection against CBRN agents.

Technical Manual: N/A

Field Manual: 3-11.4



CONTAMINATION AVOIDANCE PRODUCTS

Contamination Avoidance



Ammunition-Riot Control

Grenade, Discharger, Anti-Riot, Irritant, CS, L96A1

NSN/DODIC: 1330-01-459-4018 FZ14

Part Number: 13-19-870
9704000

LIN: G34777

Class of Supply: 5



Description: The L96A1 Grenade is comprised of a 66mm fiberglass filled nylon propulsion base and cylindrical rubber body containing the payload (CS compound). The propulsion base contains a propellant charge, an electric match (fuze), and a delay detonator. The rubber body payload contains 23 individually fuzed, light alloy canister submunitions filled with a CS compound. Each submunition contains a central perforation and is surrounded with cambric cloth (cloth impregnated with gun powder). The cambric cloth is ignited by a piece of igniter cord that is assembled through the central perforation in each submunition and joined to the initiating charge at the base of the grenade. The L96A1 uses the gas produced by the rapid burning of the igniter cord/cambric to burst the rubber body that contains the 23 submunitions.

Use: The L96A1 is used primarily with the M7 discharger, which is a component of the Light Vehicle Obscuration Smoke System (LVOSS) and similar 66mm grenade dischargers. The L96A1 provides standoff delivery of irritants from light tactical vehicles for riot/crowd control and protection of convoys in peacekeeping operations.

Notes: Upon launch, the submunitions in the L96A1 will burn for approximately 8 seconds at a distance of 65 to 85 meters from the launch vehicle. The delay detonator ensures that the grenade functions at least 6 meters above the target area.

Technical Manuals: 9-1330-200-12
9-1330-200-34
43-0001-29

Field Manual: 3-23.30
3-19.15

Contamination Avoidance Ammunition-Riot Control



Grenade, Discharger, Anti-Riot: Practice, L97A1

NSN/DODIC: 1330-01-459-4032 FZ15

Part Number: 13-19-880
97041000

LIN: G23184

Class of Supply: 5



Description: The L97A1 Practice Grenade is comprised of a 66mm fiberglass-filled nylon propulsion base and cylindrical rubber body containing the payload, cinnamic acid, a CS simulant. The propulsion base contains a propellant charge, an electric match (fuze), and a delay detonator. The rubber body payload contains 23 individually fuze, light alloy canister submunitions filled with simulant. Each submunition contains a central perforation and is surrounded with cambric cloth (cloth impregnated with gunpowder). The cambric cloth is ignited by a piece of igniter cord that is assembled through the central perforation in each submunition and joined to the initiating charge at the base of the grenade. The L97A1 uses the gas produced by the rapid burning of the igniter cord/cambric to burst the rubber body that contains the 23 submunitions.

Use: The anti-riot practice grenade is used as the training grenade for the L96A1. The L97A1 is used primarily with the M7 discharger, which is a component of the Lightweight Vehicle Obscuration Smoke System (LVOSS) and similar 66mm grenade dischargers.

Notes: The L97A1 is the training round for the L96A1. Upon launch, the submunitions in the L97A1 will burn for approximately 8 seconds at a distance of 65 to 85 meters from the launch vehicle. The delay detonator ensures that the grenade functions at least 6 meters above the target area.

Technical Manuals: 9-1330-200-12
9-1330-200-34
43-0001-29

Field Manual: 3-23.30
3-19.15

Contamination Avoidance Ammunition-Riot Control



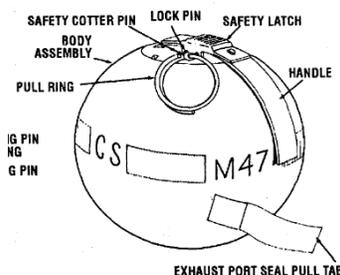
Grenade, Hand: Riot, CS, M47

NSN/DODIC: 1330-00-477-6704 G922

Part Number: 13-25-70

LIN: J79561

Class of Supply: 5



Description: The M47 grenade consists of rubber body assembly, an M227 fuze, and a filling of CS pyrotechnic mixture. The grenade weighs 410 grams, and is 3-1/2 inches in diameter. The grey grenade body is made of two rubber hemispheres vulcanized together. The top half of the grenade contains the fuze, and the bottom half contains the filling hole and the exhaust port. The grenade is filled with approximately 185 grams of CS pyrotechnic granulated mix.

Use: The M47 grenade is a special-purpose, burning-type munition used for control of riots and counterinsurgencies. This grenade is a nonlethal, incapacitating-type munition that contains non-persistent CS agent. Burn time for the CS filler is 5 to 25 seconds.

Technical Manuals: 9-1330-200-12
9-1330-200-34
43-0001-29

Field Manual: 3-23.30

Contamination Avoidance Ammunition-Riot Control



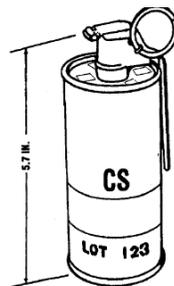
Grenade, Hand: Riot, CS, M7A3

NSN/DODIC: 1330-00-965-0802 G963

Part Number: 13-22-35

LIN: J79544

Class of Supply: 5



Description: The M7A3 is a CS-filled burning type grenade. The grenade body is a cylinder of thin sheet metal. The filler is compressed into the grenade body with a starter mix. Hand grenade fuze M201A1 is a pyrotechnic delay igniting fuze. The body contains a primer, first-fire mixture pyrotechnic delay column and ignition mixture. Assembled to the body are a striker, striker spring, safety lever and safety pin with pull ring. The split end of the safety pin has an angular spread.

Use: The M7A3 grenade is used to control counterinsurgencies and for other tactical missions. It is a burning type riot control grenade and may be used to simulate casualty agents during training. Upon functioning, the M7A3 grenade emits a CS cloud for 15 to 35 seconds.

Technical Manuals: 9-1330-200-12
9-1330-200-34
43-0001-29

Field Manual: 3-23.30
3-19.15

Contamination Avoidance Ammunition-Riot Control



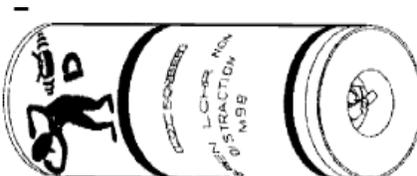
Grenade, Launcher: Non-Lethal, Distraction, M98

NSN/DODIC: 1330-01-484-7773 FZ16

Part Number: 13-19-760

LIN: G80478

Class of Supply: 5



Description: The M98 is a launched grenade containing three submunitions which are expelled from the grenade body and propelled approximately 50 to 100 meters from the vehicle. A delay charge in the submunitions burns for approximately 4.5 seconds before releasing the audio/visual stimuli.

Use: M98 grenades are used primarily with the M7 Discharger, which is a component of the Light Vehicle Obscuration Smoke System (LVOSS), and similar 66mm grenade dischargers. They can be used to enhance the capability of friendly forces to conduct force protection without direct contact with rioting crowds. M98 grenades are intended to be used as a visual and audio distraction device in order to stop, confuse, disorient, and/or temporarily incapacitate. The noise produced by the M98 canisters will be approximately 160 decibels (dB) when measured no more than 5.5 feet from the point of initiation.

Technical Manuals: 9-1330-200-12
9-1330-200-34
43-0001-29

Field Manual: 3-23.30
3-19.15

Contamination Avoidance Ammunition-Riot Control



Grenade, Launcher: Non-Lethal, Blunt Trauma, M99

NSN/DODIC: 1330-01-484-7775 FZ17

Part Number: 13-19-720

LIN: G80546

Class of Supply: 5



Description: The M99 is a launched grenade containing three submunitions which are expelled from the grenade body and propelled approximately 50 to 100 meters from the vehicle. A delay charge in the submunitions burns for approximately 4.5 seconds before releasing the audio, visual, and physical stimuli. The M99 contains the same components for audio/visual stimuli as the M98. M99 grenades also contain approximately 140 PVC balls (.312 inch diameter, 90 durometer) to produce blunt trauma.

Use: M99 grenades are used primarily with the M7 Discharger, which is a component of the Light Vehicle Obscuration Smoke System (LVOSS), and similar 66mm grenade dischargers. They can be used to enhance the capability of friendly forces to conduct force protection without direct contact with rioting crowds. The M99 Grenade deters rioting crowds through audio, visual, and physical stimuli. The noise produced by the M99 canisters will be approximately 160 decibels (dB) when measured no more than 5.5 feet from the point of initiation. Upon canister initiation, the PVC balls fly approximately 290 feet per second (fps) (app. 197 mph).

Technical Manuals: 9-1330-200-12
9-1330-200-34
43-0001-29

Field Manual: 3-23.30
3-19.15

Contamination Avoidance Ammunition – Smoke Grenades



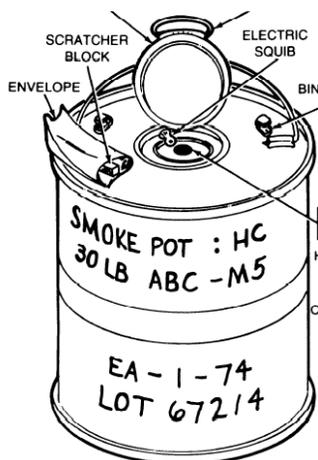
ABC-M5 Smoke Pot: HC, 30-Pound

NSN/DODIC: 1365-00-598-5207 K866

Part Number: 36-1-18

LIN: T84505

Class of Supply: 5



Description: The ABC-M5 Smoke Pot is a cylindrical sheet-metal container, filled with about 30 pounds of slow-burning, type-C, Hexachloroethane (HC) smoke mixture and 1 pound of fast-burning, HC smoke mixture. Once ignited, the pot will burn for approximately 12 to 22 minutes. ABC-M5 smoke pots can be ignited either singly or in multiples by remote electric ignition. They can also be ignited singly by using the scratcher block to ignite the match head.

Use: The ABC-M5 Smoke Pot is used to produce screening smoke for training exercises and demonstrations, but can also be used in combat. The ABC-M5 Smoke Pot does not float on water. Breathing HC smoke can be injurious to the respiratory tract of exposed personnel. Personnel must wear respiratory protection (protective masks) whenever any exposure to HC smoke is anticipated. They must wash exposed skin with soap and water after handling HC smoke pots.

Technical Manuals: 43-0001-26-2

Field Manual: 3-11.50

Contamination Avoidance Ammunition – Smoke Munitions



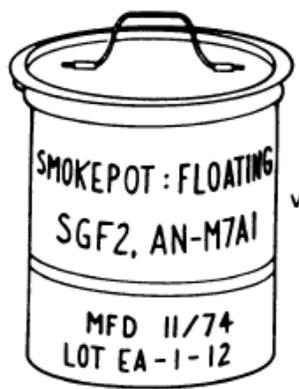
AN-M7A1 SGF2 Smoke Pot: Floating

NSN/DODIC: 1365-00-939-6599 K869

Part Number: 36-2-214

LIN: T84657

Class of Supply: 5



Description: The M7A1 SGF2 Floating Smoke Pot is a 5-gallon metal pail filled with 13 pounds of SGF2 smoke-generator fog oil and fused with an M208 pyrotechnic delay-igniting fuse. Once ignited, the pot will burn for 8 to 13 minutes.

Use: The M7A1 Floating Smoke Pot is used to generate screening smoke when a floating source of smoke is required for river crossings and beach landings. It can also be used on land. Fog oil smoke can be injurious to the respiratory tract of exposed personnel. Personnel should wear their protective masks in high concentrations of fog oil smoke.

Technical Manual: 43-0001-26-2

Field Manual: 3-11.50

Contamination Avoidance Ammunition – Smoke Munitions



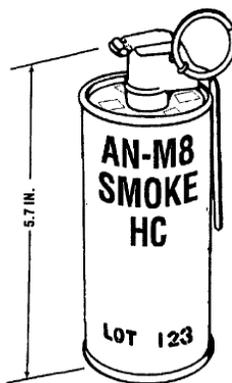
Grenade, Hand: Smoke, HC, AN-M8

NSN/DODIC: 1330-00-219-8511 G930

Part Number: 13-19-32

LIN: J79681

Class of Supply: 5



Description: The grenade body is a cylinder of thin sheet metal filled with Hexachloroethane (HC) smoke mixture and topped with a starter mixture directly under the fuse opening. The duration of smoke screen or signal is 105 to 150 seconds. Safety clips are not required with these grenades.

Use: The HC Smoke Hand Grenade AN-M8 is a burning type grenade used to generate white smoke for screening activities of small units. It is also used for ground-to-air signaling. Breathing HC smoke can be injurious to the respiratory tract of exposed personnel. Personnel must wear respiratory protection (protective masks) whenever any exposure to HC smoke is anticipated. They must wash exposed skin with soap and water after handling HC smoke munitions. M83 TA Smoke Hand Grenades may be substituted for AN-M8 grenades.

Technical Manuals: 9-1330-200-12
9-1330-200-34
43-0001-29

Field Manual: 3-23.30

Contamination Avoidance Ammunition – Smoke Munitions



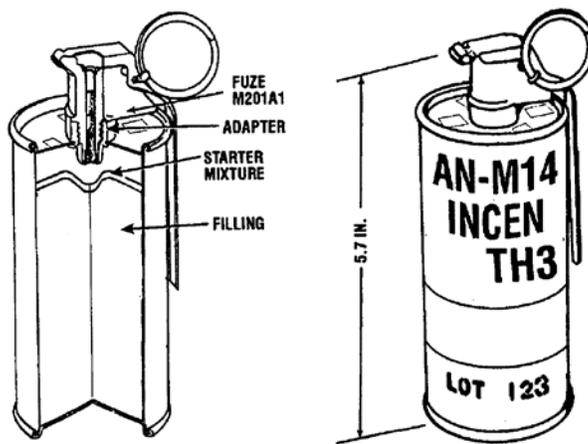
Grenade, Hand: Incendiary, TH3, AN-M14

NSN/DODIC: 1330-00-219-8557 G900

Part Number: 13-17-3

LIN: J77763

Class of Supply: 5



Description: The AN-M14 Incendiary Hand Grenade generates heat to 4000°F. The grenade filler will burn from 30 to 45 seconds. The grenade body is of thin sheet metal, cylindrical in shape, and filled with an incendiary mixture (Thermite TH3 and First-Fire Mixture VII).

Use: The AN-M14 Grenade is designed to provide a source of intense heat to destroy equipment.

Technical Manual: 43-0001-29
9-1330-200-12
9-1330-200-34

Field Manual: 3-23.30

Contamination Avoidance Ammunition – Smoke Munitions



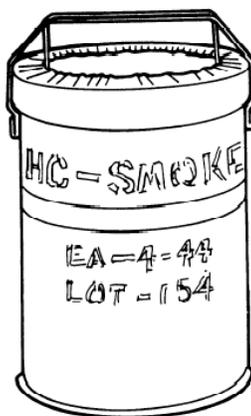
Smoke Pot: HC, 10-Pound, M1

NSN/DODIC: 1365-00-219-8512 K865

Part Number: 36-1-1

LIN: T84657

Class of Supply: 5



Description: The M1 10-pound, Hexachloroethane (HC) Smoke Pot is a cylindrical sheet metal container filled with 10 pounds of type-C, HC smoke mixture and provided with an ignition device. A removable outer cover with a handle is clamped to the top of the pot and is sealed with adhesive tape. Once ignited, the pot will burn for approximately 5 to 8 minutes.

Use: The M1 Smoke Pot is used to produce screening smoke for training exercises and demonstrations, but can also be used in combat. The M1 Smoke Pot does not float on water. Breathing HC smoke can be injurious to the respiratory tract of exposed personnel. Personnel must wear respiratory protection (protective masks) whenever any exposure to HC smoke is anticipated. They must wash exposed skin with soap and water after handling HC Smoke Pots.

Technical Manual: 43-0001-26-2

Field Manual: 3-11.50

Contamination Avoidance Ammunition – Smoke Munitions



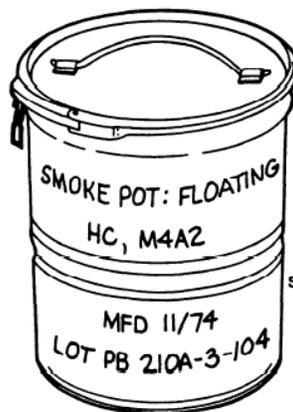
M4A2 HC Smoke Pot: Floating

NSN/DODIC: 1365-00-598-5220 K867

Part Number: 36-1-26

LIN: S84573

Class of Supply: 5



Description: The M4A2 Hexachloroethane (HC) Floating Smoke Pot is a 5-gallon metal pail with its lower third filled with about 25 pounds of type-C, HC smoke mixture and fused with an M207A1 pyrotechnic, delay-igniting fuze. Once ignited, the M4A2 burns for approximately 10 to 15 minutes, producing a white smoke cloud.

Use: The M4A2 HC Floating Smoke Pot is used to generate screening smoke when a floating source of smoke is required for river crossings and beach landings. It can also be used on land. Breathing HC smoke can be injurious to the respiratory tract of exposed personnel. Personnel must wear respiratory protection (protective masks) whenever any exposure to HC smoke is anticipated. They must wash exposed skin with soap and water after handling HC Smoke Pots.

Technical Manual: 43-0001-26-2

Field Manual: 3-11.50

Contamination Avoidance Ammunition – Smoke Munitions



Smoke Pot: Screening, Floating, TA, Practice, M8

NSN/DODIC: 1365-01-380-1678 K511

Part Number: 36-1-300

LIN: P68265

Class of Supply: 5



Description: The M8 TA Floating Smoke Pot is a 5-gallon metal pail with its lower half filled with about 25 pounds of Terephthalic Acid (TA) smoke mixture and fuzed with an M208 pyrotechnic, delay-igniting fuze. Once ignited, the M8 Smoke Pot burns for approximately 5 minutes.

Use: The M8 Smoke Pot is used to generate screening smoke when a floating source of smoke is required for river crossings and beach landings. It can also be used on land. The M8 pot is used as a training device for the M4A2 Smoke Pot. Breathing TA smoke can be injurious to the respiratory tract of exposed personnel. Personnel must wear respiratory protection (protective masks) whenever any exposure to TA smoke is anticipated. They must wash exposed skin with soap and water after handling TA smoke pots.

Technical Manual: 43-0001-26-2

Field Manual: 3-11.50
3-23



Contamination Avoidance Ammunition – Smoke Munitions

Grenade, Hand: Smoke, M18

NSNs/DODIC: 1330-00-289-6851 G940 (green)
1330-00-289-6854 G945 (yellow)
1330-00-289-6852 G950 (red)
1330-00-289-6853 G955 (violet)

Part Number: 13-19-37

Class of Supply: 5

LIN: J77626 (green)
J79955 (yellow)
J79133 (red)
J79818 (violet)



Description: The M18 grenade body is thin sheet metal, and filled with colored smoke mixture pressed into four pellets. Two starter patches (cloth impregnated with starter mix) are assembled between the pellets, close enough to the fuze to receive the ignition spark. M18 grenades have four colors of smoke mixtures: red, green, yellow, or violet. Ingredients of smoke mixes vary with dyes, fuels, and oxidizers. Safety clips are not required with these grenades.

Use: The M18 Colored Smoke Hand Grenade is used for ground-to-air or ground-to-ground signaling. Grenades will emit smoke for approximately 50 to 90 seconds. Although designed for signaling, the M18 also provides effective screening smoke. Personnel must wear protective masks in the vicinity of smoke clouds.

Technical Manual: 9-1330-200-12
9-1330-200-34
43-0001-29

Field Manual: 3-11.50
3-23.30

Contamination Avoidance Ammunition – Smoke Munitions



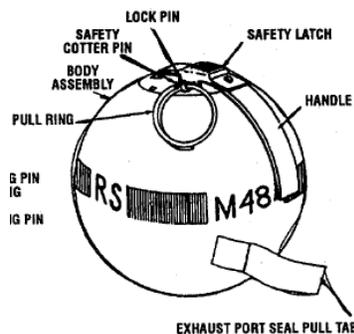
Grenade, Hand: Smoke, Red, M48

NSN/DODIC: 1330-00-477-6719 G932

Part Number: 13-25-71

LIN: J79201

Class of Supply: 5



Description: The M48 grenade consists of rubber body assembly, an M227 fuze, and a filling of red smoke mixture. The grenade weighs 390 grams (approximately 1 pound), and is 3-1/2 inches in diameter. The grey grenade body is made of two rubber hemispheres vulcanized together. The top half of the grenade contains the fuze, and the bottom half of the grenade contains the filling hole and the exhaust port. The grenade is filled with approximately 165 grams of red smoke mixture. Burn time is 5 to 25 seconds.

Use: The M48 grenade is a special-purpose, burning-type munition used for training. This grenade is a nonlethal type munition that contains red smoke mixture. The M48 Red Smoke Grenade is used as the training aid for the M47 grenade.

Technical Manuals: 9-1330-200-12
9-1330-200-34
43-0001-29

Field Manual: 3-23.30

Contamination Avoidance Ammunition – Smoke Munitions



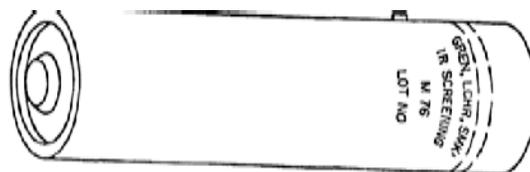
Grenade Launcher, Smoke: IR Screening, M76

NSN/DODIC: 1330-01-171-8869 G826

Part Number: 13-19-150

LIN: G80205

Class of Supply: 5



Description: The grenade consists of a plastic cylindrical main body that contains the infrared (IR) composition, burster, booster lead, and safe and arm (S&A) mechanism. The S&A mechanism consists of a out-of-line spring-loaded slider/bore rider containing the explosive lead and a spring loaded setback lock. A propellant assembly is retained in the body forming the complete grenade. The propellant assembly consists of a pyrotechnic delay detonator, launch propellant, an electric match, and a propellant retainer with electrical contacts.

Use: M76 grenades are used with the M250, M239, M243 and similar grenade launchers to provide an IR and visual smoke screening capability for armored/tactical vehicles. Grenades produce a smoke screen within 2 seconds of firing. A salvo of grenades produces a smoke cloud approximately 30 meters forward of the launcher, 7 meters high, and obscuring a front of over a 110 degree arc. Cloud duration is approximately 45 seconds depending upon weather conditions.

Technical Manuals: 9-1330-200-12
9-1330-200-34
43-0001-29

Field Manual: 3-11.50

Contamination Avoidance Ammunition – Smoke Munitions



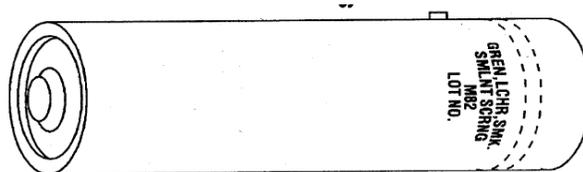
Grenade, Launcher, Smoke: Simulant Screening, M82

NSN/DODIC: 1330-01-353-3284 G978

Part Number: 13-19-290

LIN: G80228

Class of Supply: 5



Description: The grenade consists of a plastic cylindrical main body that contains a titanium dioxide smoke composition, a burster, a booster lead, and a Safe and Arm (S&A) mechanism. The S&A mechanism consists of an out-of-line spring loaded slider/bore rider containing an explosive lead and a spring loaded setback lock. A propellant assembly is retained in the body forming the complete grenade. The propellant assembly consists of a pyrotechnic delay detonator, a launch propellant, an electric match, and a propellant retainer with electrical contacts.

Use: M82 grenades are used with the M250, M239, M243 and similar grenade launchers to provide means to train armored/tactical vehicle crews to employ smoke grenade launchers. A salvo of grenades produces a white smoke cloud approximately 30 meters forward of the launcher, 7 meters high, and obscuring a front of over a 110 degree arc. Cloud duration is approximately 45 to 60 seconds depending on weather conditions.

Technical Manuals: 9-1330-200-12
43-0001-29
9-1330-200-34

Field Manual: 3-11.50

Contamination Avoidance Ammunition – Smoke Munitions

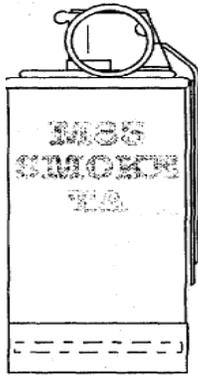


Grenade, Hand: Smoke, TA, M83

NSN/DODIC: 1330-01-380-0287 G982 **Part Number:** 13-19-700
13-19-707

LIN: G79794

Class of Supply: 5



Description: The grenade body is a cylinder of thin sheet metal. It is filled with Terephthalic Acid (TA) smoke mixture pressed into pellets. Two starter patches (cloth impregnated with starter mix) are assembled between the pellets, close enough to the fuze to receive the ignition spark. The duration of smoke screen or signal is 45 to 100 seconds. Safety clips are not required with these grenades.

Use: The TA Smoke Hand Grenade, M83 is a burning type grenade used to generate white smoke for screening activities of small units. It is also used for ground-to-air signaling. The M83 TA Smoke Grenade has recently been changed from a practice to a tactical round. Since it has TA smoke, as opposed to Hexachloroethane (HC) smoke, the M83 is being considered as a replacement for the AN-M8 HC Smoke Grenade. Breathing TA smoke can be injurious to the respiratory tract of exposed personnel. Personnel must wear respiratory protection (protective masks) whenever any exposure to TA smoke is anticipated. They must wash exposed skin with soap and water after handling TA munitions.

Technical Manuals: 9-1330-200-12
9-1330-200-34
43-0001-29

Field Manual: 3-11.50
3-23.30

Contamination Avoidance Ammunition – Smoke Munitions



Grenade, Launcher, Smoke, Screening, TA, M90

NSN/DODIC: 1330-01-449-9600 GG03

Part Number: 13-19-800
13-19-825

LIN: G23048

Class of Supply: 5



Description: The grenade body is a cylinder of thin metal. It is filled with a smoke-mixture of Terephthalic Acid (TA) in three stacked cylindrical, individual smoke canisters. Each canister contains two ignition patches. These patches are ignited when the black powder expulsion charge ignites and flashes up the hollow center core of the grenade. An M103 Electric Match ignites the grenade. A pusher-plate, which sits on top of the black powder expulsion charge, ejects the three burning canisters to a distance 35 meters from the launcher. The empty cylindrical grenade body itself remains behind in the launcher tube and must be removed by hand prior to loading another round.

Use: The M90 grenade can be launched from the M7 launcher and similar 66mm launchers. The M90 is used to screen the presence or activities of light vehicles in a battlefield situation. The M90 grenade was designed for combat but is safe enough to be used in training exercises. A salvo of 4 grenades will produce a white smoke screen (30 meters wide by 2 meters high) within 6 seconds after launch, screening a stationary vehicle for approximately 20 seconds, depending on weather conditions. Breathing TA smoke can be injurious to the respiratory tract of exposed personnel. Personnel must wear respiratory protection (protective masks) whenever any exposure to TA smoke is anticipated. They must wash exposed skin with soap and water after handling TA munitions.

Technical Manuals: 9-1330-200-12
9-1330-200-34
43-0001-29

Field Manual: 3-11.50
3-23.30

Contamination Avoidance Ammunition – Smoke Munitions



Grenade, Launcher, Smoke: Screening, RP, (UK) L8A1

NSN/DODIC: 1330-01-020-0504 G815

Part Number: TW74GF

LIN: J80160

Class of Supply: 5



Description: The grenade consists of a rubber cylindrical body and a metal base. The rubber body contains 360 grams of red phosphorous/butyl rubber in a 95/5 proportion and a central plastic burster tube containing a burster charge of 15 grams of black powder. The metal base contains the electrical clips, F92 squib type electric fuze, propellant charge (3.0 grams of black powder), and the delay assembly with delay composition (0.26 grams of black powder). The metal base contains eight gas propulsion holes covered by a metal foil diaphragm.

Use: L8A1 grenades are used with the M239 and similar grenade launchers to provide a self-screening smoke capability for armored/tactical vehicles. When ignited, the L8A1 produces a white smoke cloud within 2 to 6 seconds after firing at approximately 98 feet (30 meters) from launching device.

Technical Manuals: 9-1330-200-12
9-1330-200-34
43-0001-29

Field Manual: 3-11.50
3-23.30

Contamination Avoidance Ammunition – Smoke Munitions



Grenade, Launcher, Smoke: Screening, RP, (UK), L8A3

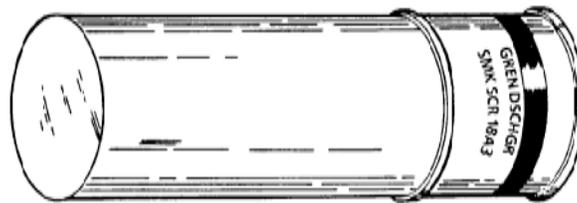
NSN/DODIC: 1330-01-124-5031 G815

Part Number: TW74GF
13-19-100

13-19-133

LIN: J80160

Class of Supply: 5



Description: The grenade consists of a rubber cylindrical body and a metal base. The rubber body contains 360 grams of red phosphorous/butyl rubber in a 95/5 proportion and a central plastic burster tube containing a burster charge of 15 grams of black powder. The metal base contains the electrical clips, F92 squib type electric fuze, propellant charge (3.0 grams of black powder), and the delay assembly with delay composition (0.36 grams of black powder). The metal base contains eight gas propulsion holes covered by a metal foil diaphragm.

Use: L8A3 grenades are used with the M239 and similar grenade launchers to provide a self-screening smoke capability for armored/tactical vehicles. When ignited, the L8A3 produces a white smoke cloud within 2 to 6 seconds after firing at approximately 98 feet (30 meters) from launching device.

Technical Manuals: 9-1330-200-12
9-1330-200-34
43-0001-29

Field Manual: 3-11.50
3-23.30

Contamination Avoidance Dispersers-Riot Control



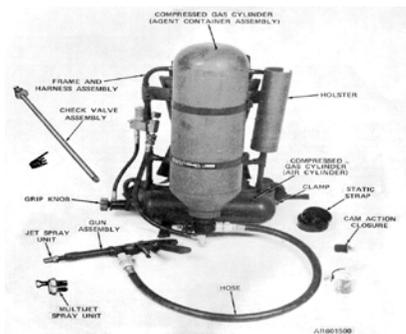
M33 / M33A1 Portable Riot Control Agent Dispenser

NSN: 1040-00-450-6559 (M33)
1040-00-148-9824 (M33A1)

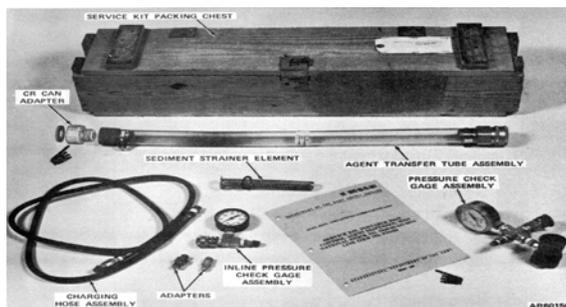
Part Number: 116-3-54 (M33)
116-3-121 (M33A1)

LIN: G22348

Class of Supply: 7



M33



M254

Description: In addition to the assembly shown above, the dispenser also comes with a frame and harness assembly. A long check valve assembly and multijet spray unit are issued with the M33A1 dispenser for spraying solutions. A short check valve assembly, an agent agitator, and a single jet spray are used to disperse powders. An extra agent container and compressed gas cylinder are provided to disperse two agent fills per mission. The frame and harness assembly also has a static strap for attaching to the frame for grounding static electricity in dry weather. The M33 dispenser does not have a long check valve assembly or a multijet spray unit and, therefore, cannot be used to disperse solutions. The M33 is not fitted with a holster.

Use: The M33A1 is designed to provide crowd control and protection at the squad level. It is capable of projecting a ballistic stream of Riot Control Agents (RCA) beyond 25 feet in up to 25 half-second bursts. It consists of a frame and harness assembly, compressed-gas cylinder (agent container assembly), air pressure assembly, gun and hose assembly, multijet spray unit, and check valve assembly. The M33A1 can be refilled and is rechargeable. For training purposes, CR can be substituted with water and CS1 can be substituted with talcum powder. The M254 Service Kit is not a component of the dispenser. The kit is an end item issued separately and is required for the operation of the dispenser.

Technical Manual: 3-1040-262-13&P

Field Manual: 3-19.15

Contamination Avoidance Dispersers-Riot Control



M37 Mid-Sized Riot Control Agent Dispenser

NSN: 1040-01-463-0157

Part Number: 116-3-160

LIN: D20400

Class of Supply: 7



Description: The M37 is the size of a standard fire extinguisher that uses compressed air to force the Riot Control Agent (RCA) out to a range of 30 feet. It has the capacity to employ 18 bursts for 3 seconds per charge. It is excellent for providing a wide coverage of RCAs onto a hostile crowd while maintaining excellent standoff capability. The M37 can be refilled and is rechargeable. It can be filled with CR solution (liquid agent) or CS1 (dry agent). For training purposes, CR can be substituted with water and CS1 can be substituted with talcum powder. The complete dispenser assembly is contained in a harness and worn suspended from a strap over the shoulder. The complete assembly weighs approximately 8 pounds when filled.

Use: The M37 dispenser provides an effective method for crowd control by dispersing non-lethal riot control agent.

Technical Manuals: 3-1040-287 series

Field Manuals: 3-19.15

Contamination Avoidance Launch Systems-Kits



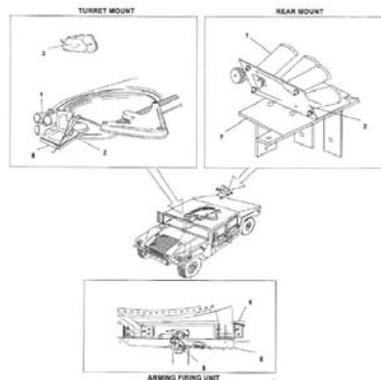
M304 Installation Kit, Light Vehicle Obscuration Smoke System (LVOSS)

NSN: 1055-01-449-1531

Part Number: 13-12-1000

LIN: J33383

Class of Supply: 2



Description: The M304 Installation Kit has two different mounting capabilities for the M966 vehicle: one discharger, turret mounted and one discharger, rear mounted for tow configuration.

Use: This kit is used to install the smoke, Light Vehicle, 1-M7 Discharger, Turret or Rear Mounted. The M304 system installs in two applications. Dependant on which of the systems is used will determine the location of the discharger. Users should follow the operator's manual to ensure proper functioning of system and avoidance of system failures.

Technical Manual: 3-1040-286-12&P
3-1040-286-13&P

Field Manual: N/A

Contamination Avoidance Launch Systems-Kits



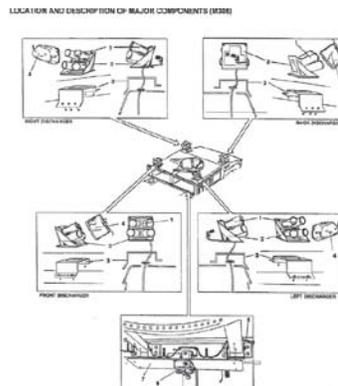
M305 Installation Kit, Light Vehicle Obscuration Smoke System (LVOSS)

NSN: 1055-01-449-1530

Part Number: 13-12-1040

LIN: J49974

Class of Supply: 2



Description: The M305 Installation Kit is a four discharger, roof mount for the M1114 vehicle.

Use: The kit is used to install the smoke, Light Vehicle, 4-M7 Dischargers, Roof Mounted (M305).

Technical Manual: 3-1040-286-12&P
3-1040-286-13&P

Field Manual: N/A

Contamination Avoidance Launch Systems-Kits



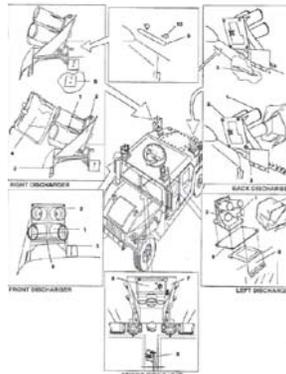
M310 Installation Kit, Light Vehicle Obscuration Smoke System (LVOSS)

NSN: 1055-01-451-2285

Part Number: 13-12-1042

LIN: J33315

Class of Supply: 2



Description: The M310 Installation Kit is a four discharger, roof mount, for the up armored M1114 vehicle.

Use: The M310 Kit is used to install the smoke, Up-Armored, High Mobility Multipurpose Wheeled Vehicle (HMMWV), 4-M7 Dischargers Roof Mounted. The gas tank is located beneath the center console. Care should be taken not to puncture the gas tank when holes are drilled.

Technical Manual: 3-1040-286-12&P
3-1040-286-13&P

Field Manual: N/A

Contamination Avoidance Launch Systems-Kits



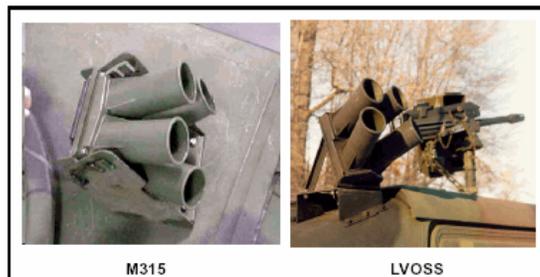
M315 Installation Kit, Grenade Launcher

NSN: 1055-01-483-8479

Part Numbers : 13-12-1100
13-12-1100-20

LIN: Z53202

Class of Supply: 2



Description: The M315 Installation Kit provides a temporary platform for hardtop High Mobility Multipurpose Wheeled Vehicle (HMMWV) variants to fire 66mm grenades. It works in combination with the M90 smoke grenade and the M98, M99, L96A1, and L97A1 and L97A1 non-lethal grenades. It extends the M98 and M99 capabilities with a bracket that allows the launch angle to be depressed for firing between 50, 75, and 100 meters.

Use: The kit provides temporary platform for hardtop HMMWV variants to fire 66mm non-lethal grenades and extends the M98 and M99 capabilities with a bracket that allows the launch angle to be depressed for firing between 50, 75 and 100 meters.

Technical Manual: 3-1055-649-12&P

Field Manual: 3-11.50

Contamination Avoidance Launch Systems-Kits



XM327 Installation Kit, Light Vehicle Obscuration Smoke System (LVOSS)

NSN: 1055-01-563-2564

Part Number: 13-12-1305

LIN: N/A

Class of Supply: 2



Description: The XM327 LVOSS system consists of an M7 discharger and an XM327 Installation Kit. This installation kit is used on the M1151 High Mobility Multipurpose Wheeled Vehicle (HMMWV) and consists of a four-button Arming/Firing Unit (AFU), AFU mounting bracket, one connector wiring harness, elevation brackets, interface brackets, and discharger covers.

Use: The XM327 LVOSS counters threat weapon systems operating in the visual through near-infrared portions of the electromagnetic spectrum and can be operated either on the move or in a stationary position. The equipment will interfere with currently used surveillance target acquisition systems and weapon guidance systems, giving the host vehicle a better chance of survival. Each launcher is capable of making a smoke cloud 35 meters wide and 2 meters high within 6 seconds from the time the grenade is launched. The cloud lasts for approximately 20 seconds. The grenade used with the XM327 LVOSS is the M90 Grenade.

Technical Manual: 3-1040-286-13&P

Field Manual: 3-11.50

Contamination Avoidance Launch Systems



M6 Countermeasure Smoke Grenade Discharger

NSN: 1040-01-383-4114

Part Number: 13-12-400

LIN: N/A

Class of Supply: 2



Description: The M6 four-tube Smoke Grenade Discharger enables combat vehicles up to 360 degrees coverage, overhead screening protection, and can interface with the Vehicle Integrated Defense System (VIDS) control. The M6 is capable of firing all standard 66mm grenades. Each tube is independently addressable.

Use: The M6 is used to provide smoke or riot control protection to armored vehicles. M6 Dischargers are used with M1 Series Tanks, M2/M3 Bradley Fighting Vehicles, large area mobile projected smoke systems, CBRN Reconnaissance Systems, Armored Security Vehicles, M728 Combat Engineering Vehicles, M88 Medium Recovery Vehicles, Armored Vehicle Launch Bridge, M113 Family of Armored Personnel Carriers, M9 Armored Combat Earthmover, Family of Light Armored Vehicles, and the Navy Riverine Smoke on Boats program.

Technical Manual: N/A

Field Manual: 3-11.50

Contamination Avoidance Launch Systems



M7 Countermeasure Smoke Grenade Discharger, Light Vehicle Obscuration Smoke System (LVOSS)

NSN: 1040-01-454-1625

Part Number: 13-12-1001

LIN: D15345

Class of Supply: 2



Description: The LVOSS (previously known as Vehicle Mounted Nonlethal Grenade Launcher [VMNLGL]) is a self-defense smoke and riot control device externally mounted on light vehicles. It consists of grenades, M7 Dischargers to fire the grenades, and installation kits (M304, M305, and M310) to mount the dischargers on vehicles.

Use: The M7 discharger is used to provide smoke protection and riot control for lightweight vehicles. The LVOSS uses M90 smoke grenades to counter threat weapon systems operating in the visual and near-infrared portion of the electromagnetic spectrum. The system can also be used to deliver anti-riot grenades (L96A1, L97A1, M98, and M99). The M7 discharger can be mounted on the M966, M1025, M1026 and M1114 High Mobility Multipurpose Wheeled Vehicles (HMMWV).

Technical Manuals: 3-1040-286-12&P
3-1040-286-13&P

Field Manual: 3-11.50

Contamination Avoidance Launch Systems



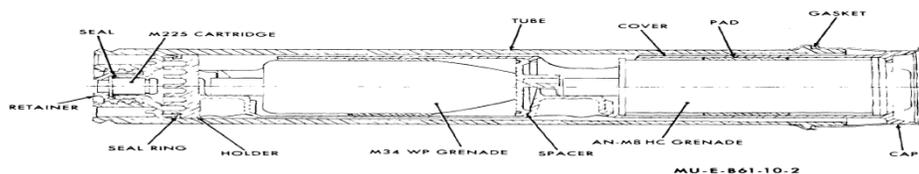
M176 Smoke Launcher and Grenades: HC and WP, M176

NSN/DODIC: 1330-00-930-8945 H050

Part Number: 13-12-13

LIN: L43899

Class of Supply: 5



Description: The M176 Grenade Launcher consists of a cylindrical plastic tube which houses one 225 cartridge, and a two-piece sabot assembly which contains one M34 WP-filled smoke grenade and one AN-M8 Hexachloroethane (HC)-filled smoke grenade. The bursting and incendiary action of the M34 WP grenade provides secondary capability of producing casualties.

Use: The M176 Grenade Launcher provides a smoke screen for concealing tactical maneuvers of a vehicle. The AN-M8 HC Smoke Grenade may be replaced by the M83 TA Smoke Grenade and the M34 WP Grenade is an obsolete item.

Technical Manuals: 3-1330-203-10
43-0001-26-2

Field Manual: N/A

Contamination Avoidance Launch Systems



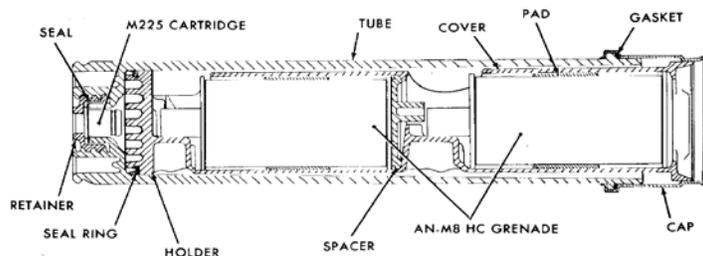
M226 Smoke Launcher and Grenades, Smoke: HC

NSN/DODIC: 1330-00-103-0694 H051

Part Number: 13-12-26

LIN: L43906

Class of Supply: 5



Description: The M226 Grenade Launcher consists of a cylindrical plastic tube which houses one M225 cartridge, and a two-piece sabot assembly which contains two AN-M8 Hexachloroethane (HC)-filled smoke grenades.

Use: The M226 Grenade Launcher provides a smoke screen for concealing tactical maneuvers of a vehicle. AN-M8 HC Smoke Grenades may be replaced with M83 Terephthalic Acid Smoke Grenades.

Technical Manuals: 3-1330-208-10
43-0001-26-2

Field Manual: N/A

Contamination Avoidance Launch Systems



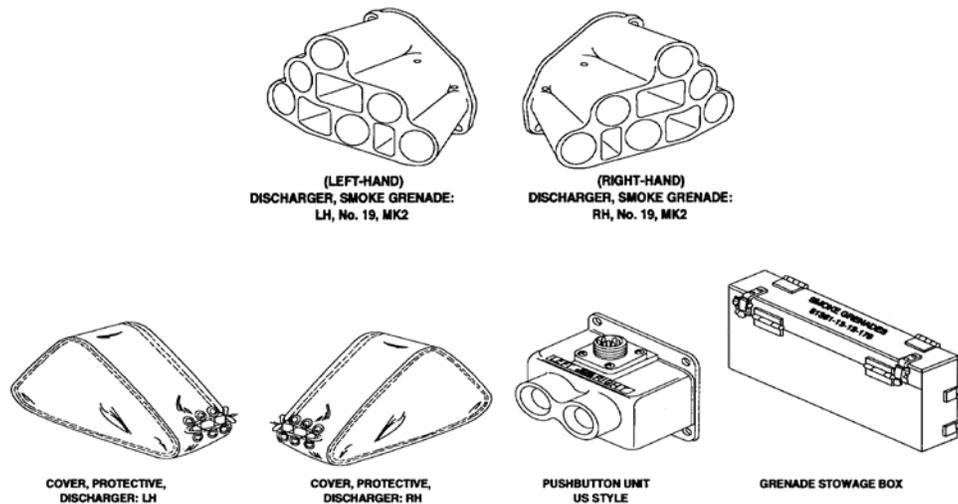
M239 Armament Subsystem Grenade Launcher

NSN: 1055-01-015-0874

Part Number: 13-12-32

LIN: L44612

Class of Supply: 7



Description: The M239 Smoke Grenade Launcher consists of two smoke grenade dischargers (one right hand and one left hand) with canvas covers, a pushbutton firing unit, and two ammunition storage boxes. Each discharger is a six-barreled aluminum casting about 10 inches high, 15 inches wide, and 18 inches deep. When mounted, the dischargers are positioned to launch the grenades to form an arc forward of the tank's turret. One discharger is bolted to a bracket that is mounted on the left outside of the tank turret, the other to the right. The two canvas covers (one right hand and one left hand) are used to cover the dischargers. The smoke discharger pushbutton unit, mounted inside the tank turret, has two pushbutton firing switches. The ammunition storage boxes are attached outside the tank turret. One box is bolted to the left rear side of the turret, the other to the right. Each box holds six grenades (one reload for each discharger).

Use: The M239 launcher is used to project smoke grenades from a combat vehicle to screen it from enemy view. Pressing one fire switch in the pushbutton unit fires a salvo of six grenades. Pressing both fire switches fires a salvo of 12 grenades simultaneously. The M239 launcher can be mounted on the M60 Tank and the M88 Recovery Vehicle.

Technical Manuals: 3-1040-266-20&P
43-0001-26-2

Field Manual: 3-11.50

Contamination Avoidance Launch Systems



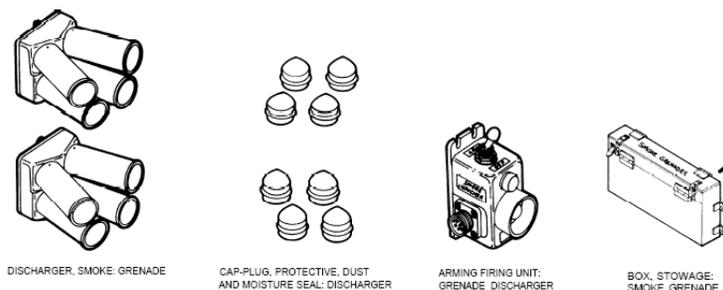
M243 Armament Subsystem Grenade Launcher

NSN: 1055-01-059-0560

Part Number: 13-12-80

LIN: L67021

Class of Supply: 7



Description: The M243 Smoke Grenade Launcher consists of a pair of four tube dischargers, eight rubber cap-plugs (one for each tube), two smoke grenade storage boxes (vehicle accessories boxes), and an arming firing unit. Each discharger has an aluminum base and four aluminum tubes. The smoke grenade fired from this launcher is the Smoke Grenade Launcher Screening, RP, UK L8A1.

Use: The M243 is used to project smoke grenades from a combat vehicle to screen it from enemy view. The dischargers are wired to launch all eight grenades simultaneously. The M243 launcher can be mounted on the M981 Fire Support Team Vehicle and the M551 Sheridan Tank.

Technical Manuals: 9-1040-267-20&P
43-0001-26-2

Field Manual: 3-11.50

Contamination Avoidance Launch Systems



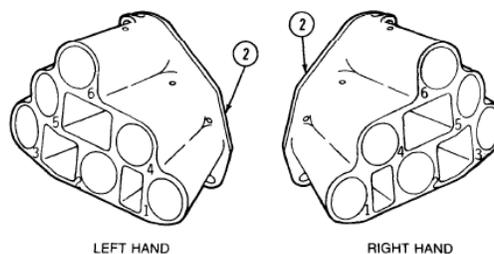
M250 Armament Subsystem Grenade Launcher

NSN: 1055-00-000-0138

Part Number: 13-12-122

LIN: L44680

Class of Supply: 7



Description: The M250 launches screening smoke grenades by electrical ignition. Each discharger is an aluminum casting with six barrels angled to launch the grenades in an arc. The launcher uses the vehicle's electrical system.

Use: The M250 is used to project smoke grenades from a combat vehicle to screen it from enemy view. The M250 launcher can be mounted on the M1/M1A1 Tank and the M93A1 Fox.

Technical Manuals: 3-1040-268-20&P
43-0001-26-2

Field Manual: 3-11.50

Contamination Avoidance Launch Systems



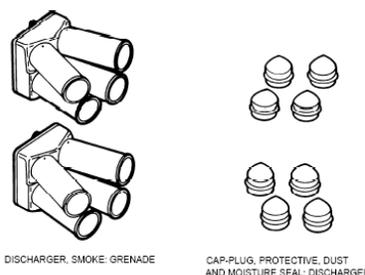
M257 Armament Subsystem Grenade Launcher

NSN: 1055-01-070-1213

Part Number: 13-12-129
0740028

LIN: L44031

Class of Supply: 7



Description: The M257 Smoke Grenade Launcher consists of a pair of four-tube dischargers and eight rubber cap-plugs, one for each tube. Each discharger has an aluminum base and four aluminum tubes. The dischargers are mounted with the tubes positioned to launch the grenades to form an arc forward of the vehicle. The cap plugs are used to cover the discharger tubes. The smoke grenade fired from this launcher is the Smoke Grenade Launcher Screening, RP, UK L8A1.

Use: The M257 is used to project smoke grenades from a combat vehicle to screen it from enemy view. The M257 launcher can be mounted on the M2 and M3 Bradley Fighting Vehicles, the Marine Corps Assault Amphibian Vehicle, the Marine Corps Light Armored Vehicle, the M1117, M2A1/M3A1, and M2A2/M3A2.

Technical Manuals: 9-1040-267-20&P 43-0001-26-2
Field Manual: 3-11.50

Contamination Avoidance Launch Systems



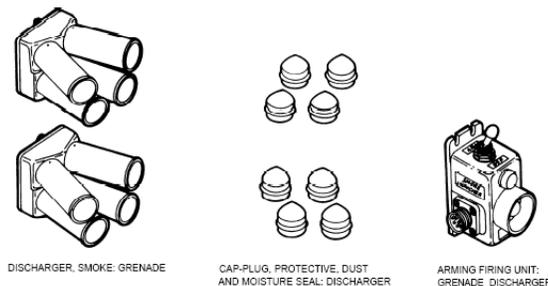
M259 Armament Subsystem Grenade Launcher

NSN: 1055-01-107-7501

Part Number: 13-12-150

LIN: L44748

Class of Supply: 7



Description: The M259 Smoke Grenade Launcher consists of a pair of four-tube dischargers, eight rubber cap-plugs (one for each tube), and an arming firing unit. Each discharger has an aluminum base and four aluminum tubes. The dischargers are mounted with the tubes positioned to launch the grenades to form an arc forward of the vehicle. The cap-plugs are used to cover the discharger tubes. The arming firing unit is positioned within close reach of the tactical vehicle commander or gunner. The smoke grenade fired from this launcher is the Smoke Grenade Launcher, Screening, RP, UK L8A1.

Use: The M259 is used to project smoke grenades from a combat vehicle to screen it from enemy view. The M259 launcher can be mounted on the M113A1/A2/A3 Armored Personnel Carrier, M9 Armored Combat Earthmover, M1059A3 Smoke Generator Carrier, and M233 TOW Carrier.

Technical Manuals: 9-1040-267-20&P
43-0001-26-2

Field Manual: 3-11.50

Contamination Avoidance Kits



M18A3 Detector Kit, Chemical Agent

NSN: 6665-01-463-4278

Part Number: 5-77-3274

LIN: N/A

Class of Supply: 2



Description: The M18A3 Kit is a portable, expendable item capable of surface and vapor analyses. The M18A3 kit is designed primarily for detecting dangerous concentrations of vapors, aerosols, and liquid droplets of chemical agents. The kit's capability provides for the sampling of unknown CBRN agents. The presence of a chemical agent is detected by distinctive color changes. If a chemical agent is suspected but cannot be detected with the kit, vapor samples can be collected in sampling tubes for forwarding to a laboratory for identification. The M18A2 is being replaced by the M18A3 Kit. The M18A3 Kit has redesigned detector tickets, which are impregnated with substrate solution and no longer requires the substrate solution bottle.

Use: The principle uses for the kit are: reconnaissance in areas of suspected chemical agent contamination, finding the boundaries of contaminated areas, determining the absence of a chemical agent so that unmasking following a chemical attack can be initiated, testing for the presence of a chemical agent after decontamination, and collecting samples of suspected but unidentified chemical agents.

Technical Manual: 3-6665-356-12

Field Manual: 3-11.9

Contamination Avoidance Kits



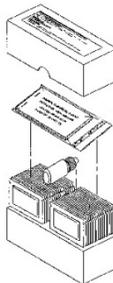
M30A2 Refill Kit, Chemical Agent Detector

NSN: 6665-01-463-4279

Part Number: 5-77-3273

LIN: N/A

Class of Supply: 2



Description: The ABC-M30A2 Refill Kit replaces the ABC-M30A1 Kit and consists of a fiberboard box containing the following components: 40 detector tickets, white-marked bottle of buffered solution, and booklet of ABC-M8 V, G, and H chemical detector paper.

Use: The M30A2 is a refill kit for the nerve agent's portion of the M18A3 Chemical Agent Detector Kit.

Technical Manual: 3-6665-308-10

Field Manual: N/A

Contamination Avoidance Kits



M34A1 Sampling Kit, CBR Agent

NSN: 6665-01-466-9096

Part Number: MIL-PRF-51200

LIN: N/A

Class of Supply: 2



Description: Contained in a carrying bag, the M34A1 kit consists of leak-proof containers, gloves, scoops, syringes, tweezers, bags, labels, M8 Paper, and instructions. The items are required for collecting soil, liquid, and/or surface samples, and common items. The kit contains enough components for taking 2-3 of each type of sample. Once collected, samples are labeled and packaged for transport along with the identifying documentation.

Use: The M34A1 Sampling Kit is used to collect liquid, soil, surface, and small solid samples suspected of being contaminated with chemical agents and sent to a laboratory for analysis.

Technical Manual: 3-6665-268-10

Field Manual: 3-11.19

Contamination Avoidance Kits



M256A1 Chemical Agent Detector Kit

NSN: 6665-01-133-4964

Part Number: 5-77-2240

LIN: N/A

Class of Supply: 2



Description: The M256A1 Chemical Agent Detector Kit detects the presence of nerve, blood, and blister agents within 20 minutes. It is small, easy to carry, lightweight, and complete with instructions for use. The kit contains twelve sampler-detectors and one book of M8 Detector Chemical Agent Paper with 25 sheets in each kit. The M256A1 Chemical Agent Detector Kit will be replaced by the M256A2 Chemical Agent Detector Kit (NSN 6665-01-563-7473).

Use: The purpose of the kit is to detect and classify toxic chemical agents present in vapor or in liquid form. This detector kit has a simulator which can be used for training.

Technical Manual: 3-6665-307-10

Field Manual: 3-11.19

Contamination Avoidance Kits



M272 Water Testing Kit, Chemical Agents

NSN: 6665-01-134-0885

Part Number: 5-77-2500

LIN: N/A

Class of Supply: 2



Description: The M272 is a portable, lightweight kit that will detect and identify hazardous levels of nerve, mustard and blood agents in treated or untreated water sources. Detection of chemical agents is indicated by a color change. A full kit contains enough supplies to run 25 tests for each agent. Simulators are included in the kit for training use. The kit is disposable and therefore no refills or repairs are needed.

Use: The M272 is used to detect and identify dangerous levels of common chemical agents in water sources. It is currently used in U.S. Army water purification units, supply organizations at various levels, technical escort units, depot storage sites, and other specialized units and locations.

Technical Manual: 3-6665-319-10

Field Manual: 3-11.19

Contamination Avoidance Kits



M274 Sign Kit, Nuclear Biological Chemical (NBC)

NSN: 9905-01-346-4716

Part Number: 5-14-1

LIN: N/A

Class of Supply: 2



Description: The CBRN Marking Set is a lightweight and portable item containing everything needed to mark a contaminated area: flags, ribbon, crayons, mounting stakes and a carrying container. Marking contaminated areas and equipment warns friendly units and helps them avoid the contamination. The items in the set can be ordered as separate replacement items.

Use: The CBRN Contamination Marking Set is to be used in marking contaminated areas with CBRN notification designators.

Technical Manual: 3-9905-001-10

Field Manual: N/A

Contamination Avoidance Simulator Training Kits



M28 Simulator Chemical Agent Detector Tickets

NSN: 6665-01-378-5414

Part Number: 5-77-3260

LIN: N/A

Class of Supply: 9



Description: The M28 Training simulator is a portable expendable item that consists of a carrying box and 36 individually wrapped sampler-detectors (18 simulate "all clear" and 18 simulate nerve agent).

Use: The M28 is used to train personnel in detection of chemical nerve agents in a training environment. The M28 is used with the M256A1 Chemical Agent Detector and Training Kits.

Technical Manual: 3-6665-307-10

Field Manual: N/A

Contamination Avoidance Simulator Training Kits



M29 Simulator Chemical Agent Detector Tickets

NSN: 6665-01-379-0492

Part Number: 5-77-3261

LIN: N/A

Class of Supply: 9



Description: The M29 Training Simulator is a portable expendable item that consists of a carrying box with handle and 36 individually wrapped sampler-detectors (18 simulate "all clear" and 18 simulate blister agent mustard [H]).

Use: The M29 is used to train personnel in detection of chemical blistering agents in a training environment. It is used with the M256A1 Chemical Agent Detector and Training Kits.

Technical Manual: 3-6665-307-10

Field Manual: N/A

Contamination Avoidance Simulator Training Kits



M256A1 Training Simulator

NSN: 6665-01-293-2149

Part Number: 5-77-2914

LIN: N/A

Class of Supply: 2



Description: The M256A1 Training Simulator is a portable expendable item that consists of a carrying box with handle and 36 individually wrapped sampler-detectors.

- 12 simulate "all clear"
- 6 simulate nerve agent (G or V)
- 6 simulate blister agent mustard (H)
- 6 simulate blister agent phosgene oxime (CX)
- 3 Strong (Blue Indicator) simulate blood agents hydrogen cyanide (AC) or cyanogen chloride (CK)
- 3 Weak (Pink Indicator) simulate blood agents AC or CK

Use: The M256A1 Training Simulator is used to train personnel in the detection of chemical agent response in the absence of agent or simulant in a training environment. The sampler-detector should not be exposed to direct flame or high heat sources; the chemicals in the ampoules are flammable and/or explosive.

Technical Manual: 3-6665-307-10

Field Manual: N/A

Contamination Avoidance Point Detection



Improved Chemical Agent Monitor (ICAM)

NSN: 6665-01-357-8502

Part Number: 5-15-17100

LIN: C05701

Class of Supply: 7



Description: The ICAM is a hand-held, soldier-operated device designed for monitoring chemical agent contamination on personnel and equipment. The ICAM utilizes ion mobility spectrometry technology to detect and discriminate between mustard and nerve agent vapors. The unit can be held in either hand and operated while wearing chemical protective clothing. It is simple to operate and can be operated day or night. Relative vapor hazard and malfunction information is displayed on a Liquid Crystal Display (LCD). The operator must select G or H mode when operating the ICAM. Thus, the ICAM cannot detect both types of agent simultaneously. **Contains radioactive material**

Use: The ICAM is used by ground forces to search out clean areas, to search and locate contamination on personnel, equipment, structures, aircraft, vehicles, terrain, and to monitor the effectiveness of decontamination. It can also be used for monitoring collective protection. The ICAM is a post-attack monitor and not a detector or alarm. Since it is a monitor, the ICAM can become contaminated and overloaded (saturated). The ICAM can only report conditions at the front of the inlet probe. It is a point monitor only and cannot give a realistic assessment of the vapor hazard over an area from one position.

Technical Manuals: 3-6665-343-10
3-6665-343-23&P

Field Manual: 3-11.3

Contamination Avoidance Point Detection



Chemical Agent Monitor Simulator (CAMSIM)

NSN: 6665-99-001-9985

Part Number: CAMSIM001

LIN: A32778

Class of Supply: 2



Description: The CAMSIM is housed within a standard CAM case marked as a simulator. The CAMSIM provides for simulation of point-source and area-based contamination of both nerve (G) and blister (H) agents. The simulator does not use any chemicals as a simulant. It is powered with a standard CAM battery or battery pack and is compatible with the CAM Buzzer and all CAM accessories. The simulator stores and provides operator error messages to the instructor showing such errors as bumping the nozzle against a contaminated source, incorrect mode change, etc. When powered up, the simulator sequences through the standard power up sequence of the CAM. The simulator comes with a confidence tester, which exactly duplicates the function of the CAM confidence tester.

Use: The CAMSIM provides for simulation of point-source and area based contamination of both nerve (G) and blister (H) agents.

Technical Manual: N/A

Field Manual: N/A

Contamination Avoidance Point Detection



Joint Chemical Agent Detector (JCAD)

NSN: 6665-01-552-2704

Part Number: 5-15-32019

LIN: J00697

Class of Supply: 7



Description: The JCAD program will result in the acquisition of a joint portable monitoring and small point chemical agent detector for aircraft, shipboard and individual soldier applications. JCAD is a detector capable of automatically detecting, identifying, and quantifying chemical agents inside aircraft and shipboard interiors, provides hand-monitoring capabilities, and alerts the individual soldier/sailor/airman/marine through the use of pocket-sized detection and alarm. The device must be sufficiently sensitive to warn aircrews before accumulation of a dose, over the entire mission, which will cause miosis or more severe effects, be resistant to the severe interferent environment on a naval vessel, and be small and rugged for individual use.

Use: The JCAD program will provide advanced detection and warning, identification of contamination on personnel and equipment, and monitoring for the presence of chemical warfare agent contamination.

Technical Manual: 3-6665-355-10
3-6665-355-23&P

Field Manual: 3.11.19

Contamination Avoidance Point Detection



Joint Chemical Biological Radiological Water Monitor (JCBRAWM)

NSN: 6665-01-134-0885

Part Number: 5-77-2500

LIN: N/A

Class of Supply: N/A



Description: JCBRAWM is a man-portable water sampling device designed to detect, identify and quantify the presence of CBRN warfare threats in source and potable water supplies. The system provides visual and audible alarms in the presence of harmful CBRN agents. The system will be capable of detecting CBRN agents, and contaminants from all water sources including water purification sites, and water distribution sites.

Use: The sensor will be used in support of three water monitoring missions: 1) source water selection for potable water supplies, shower points, and personnel and equipment decontamination stations; 2) treated water quality assurance at water purification points, shower points, and personnel decontamination stations; and 3) potable water storage and distribution point quality assurance to detect recontamination of field potable water supplies.

Technical Manual: N/A

Field Manual: N/A

Contamination Avoidance Point Detection-Kits



JCAD Interface Kit

NSN: 6665-01-557-4013

Part Number: 5-5-32039
15161

LIN: N/A

Class of Supply: 9



Description: The Platform Interface Kit (PIK) includes the following: Platform interface plate, platform interface mount assembly, screws, and rubber spacers.

Use: The PIK provides hardware to mount the Communications Adapter (CA) on a host platform. The sieve pack contains an ammonia doped molecular sieve. Sieve packs should not be disposed of in fire because toxic substances may be released. Sieve packs contain a molecular sieve material that reacts with water and releases heat. Note: Do not allow a sieve pack to become immersed in water.

Technical Manual: 3-6665-355-10
3-6665-355-23&P

Field Manual: 3-11.19

Contamination Avoidance Point Detection-Kits



M281 Mounting Kit, Chemical Agent Automatic Alarm (CAAA)

NSN: 6665-01-438-6959

Part Number: EA-PRF-2061

LIN: M18087

Class of Supply: 2

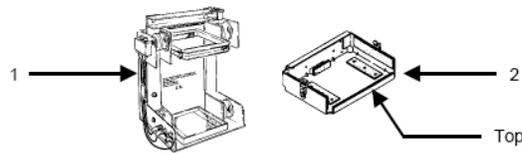


Figure 1

Description: The Vehicle Mount (a component of the M281 Mounting Kit) is designed for mounting on the inside or outside of a vehicle and provides an anti-vibration mount for the M88 Detector. Mounting holes are provided in the back plate and also in the back of the assembly for bolting onto the vehicle. Mounting holes are provided in the back plate of the assembly, for bolting onto the vehicle. A junction box is fitted to the side of the Vehicle Mount to allow electrical interconnection between the vehicle and the M88 Detector,

Use: The M281 Mounting Kit provides separate anti-vibration mounts for mounting the M88 Detector and the M42 Remote Alarm. The end item is the M22 CAAA Mounting Kit.

Technical Manual: 3-6665-321-12&P
11H2-23-1 (AF)
10434A-12&P (MC)
EE168-DB-OMP-010 (Navy)

Field Manual: N/A

Contamination Avoidance Point Detection



M22 Automatic Chemical Agent Detector Alarm (ACADA)

NSN: 6665-01-438-6963

Part Number: EA-PRF-2058

LIN: A33020

Class of Supply: 7



Description: The M22 ACADA detects and senses chemical warfare nerve (G) and blister (H) agents in the air and provides a visual and audible warning via the built-in display and audible alarm or the ABCA-M42 Alarm Unit. The M22 bar graph display indicates the concentration levels of the hazardous agent vapors detected by agent class. The M22 Alarm and its auxiliary equipment (except for the M28 Power Supply) can be stored from -80 degrees to 160 degrees Fahrenheit (-62 degrees to 71 degrees Celsius). The M28 Power Supply can only be stored at -67 degrees to 158 degrees Fahrenheit (-55 degrees to 70 degrees Celsius). **Contains radioactive material**

Use: The M22 ACADA detects and senses chemical warfare nerve (G) and blister (H) agents in the air.

Technical Manuals: 3-6665-321-12&P
3-6665-321-30&P
11H2-23-1 (AF)
10434A-12&P (MC)
EE168-DB-OMP-010 (Navy)

Field Manual: 3-11.19

Contamination Avoidance Point Detection



M27 Multipurpose Integrated Chemical Agent Detector (MICAD)

NSN: 6665-01-447-6993

Part Number: 5-15-19018-0
EA-PRF-1837

LIN: A32778

Class of Supply: 7



Description: The MICAD is an integrated CBRN detection, warning, and reporting system to be employed in area warning, combat and armored vehicles, and tactical van and shelter mission profiles. It automates the gathering of CBRN contamination data from fielded CBRN detectors or sensors and automatically formats and transmits alarms and reports up the chain of command throughout the battlefield. The MICAD is Maneuver Control System compatible.

Use: The MICAD automates the gathering of CBRN contamination data from fielded CBRN detectors or sensors while it also automatically formats and transmits alarms and reports up the chain of command throughout the battlefield.

Technical Manual: 3-6665-310-10
3-6665-310-20&P

Field Manual: N/A

Contamination Avoidance Point Detection



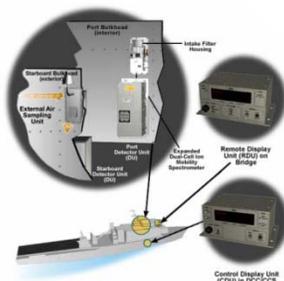
MK 26 Improved Point Detection Systems (IPDS)

NSN: N/A

Part Number: N/A

LIN: N/A

Class of Supply: N/A



Description: The MK26 Mod 0 Improved (Chemical Agent) Point Detection System (IPDS) provides automatic point detection, warning, and classification when there are chemical warfare vapors external to the ship. IPDS is an Ion Mobility Spectroscopy based chemical point detection system with an algorithm library and embedded data processor that automatically detects and warns of nerve and blister vapors at low concentrations. The class of agent (G, V, or H) is immediately identified to aid in command and medical decision making. The IPDS consists of port and starboard external air sampling and detection units, a Control Display Unit (located in Damage Control Central) and a Remote Display Unit (located on the Bridge).

Use: IPDS is deployed as part of the Chemical/Biological (CB) detection suite aboard ships.

Technical Manual: N/A

Field Manual: N/A

Contamination Avoidance Point Detection



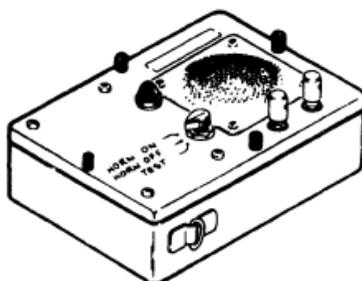
M42 Alarm Unit, Chemical Agent Automatic Alarm

NSN: 6665-00-859-2215

Part Number: 5-15-4826
2HS392

LIN: A33120

Class of Supply: 2



Description: The M42 Alarm Unit consists of a metal housing and panel assembly. The panel top contains the alarm loud speaker, alarm lamp, trigger signal input terminals, and the operation-mode selector switch. The alarm horn circuitry and four BA3030/U batteries are mounted on the underside of the panel. A plug-in printed circuit board contains most of the required electronic components.

Use: The M42 Alarm Unit is connected to the M43 or M43A1 Detector Unit by WD-1 field wire when a warning capability remote from the location of the point source is desired. The M42 alarm unit can be used at distances up to 400 meters from the M43 or M43A1 Detector Unit. Five M42 Alarm Units can be used simultaneously from one detector unit. A three-position mode selector switch allows selection of the “HORN ON,” “HORN OFF,” and “TEST” functions.

Technical Manuals: 3-6665-312-30&P **Field Manual:** 3-11.19
3-6665-321-30&P
3-6665-321-12&P
3-6665-312-12&P

Contamination Avoidance Point Detection



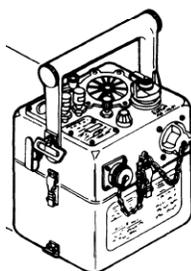
M43A1 Chemical Agent Automatic Alarm Detector Unit

NSN: 6665-01-081-8140

Part Number: 5-15-8100
326018001

LIN: N/A

Class of Supply: 2



Description: The M43 or M43A1 Detector Unit consists of a top case assembly, a cell module, an electronics module, a pump assembly or module, and a bottom case. The case assemblies are made of fiberglass. The top case has a molded, upright carrying handle; a flow meter and rain shield are stored inside the handle. The top case assembly contains all controls and indicators. The cell module contains the detector cell and associated electronics. The electronics module contains the alarm circuit, the temperature control amplifier, and voltage regulator. The pump assembly or module contains an electric motor driven pump. The bottom case protects detector components and contains heaters in its walls. It has hooks for attaching a BA3517/U Battery.

Contains radioactive material

Use: The M43 Detector Unit for the M8 Alarm uses electrolyte solution passing through an electrochemical cell for detection. The M43A1 Detector Unit for the M8A1 Alarm uses an alpha radiation source for this purpose.

Technical Manual: 3-6665-312-12&P
3-6665-312-30&P

Field Manual: 3-11.19

Contamination Avoidance Point Detection



Radiac Set AN/VDR-2

NSN: 6665-01-222-1425

Part Number: DMW-200P
D43180

LIN: R20684

Class of Supply: 7



Description: The AN/VDR-2 is a tactical beta/gamma rate meter that is used for health and safety detection. It is used to perform ground radiological surveys in vehicles or in the dismounted mode by individual soldiers as a hand-held instrument. The set can also provide a quantitative measure of radiation to decontaminate personnel, equipment and supplies. Components of the radiac set include the Radiac Meter IM-243, Probe DT-616 and pouch with strap. Installation kits are available as Common Table of Allowance items for installation of the radiac set in various military vehicles. The set includes an audible and/or visual alarm that is compatible with vehicular CBRN protective systems in armored vehicles and also interfaces with vehicular power systems and intercoms.

Use: The AN/VDR-2 is used to detect and measure nuclear radiation from fallout and radioisotopes.

Technical Manual: 11-6665-251-10
11-6665-251-20
11-6665-251-40&P

Field Manual: 3-11.19

Contamination Avoidance Point Detection



Radiac Set AN/UDR-13

NSN: 6665-01-407-1237

Part Number: A3245734
AN/UDR-13

LIN: R31061

Class of Supply: 7



Description: The AN/UDR-13 is a compact, hand-held or pocket-carried tactical dosimeter capable of measuring prompt gamma/neutron dose from a nuclear event plus gamma dose and dose-rate from nuclear fallout. For the individual soldier, the AN/UDR-13 Pocket Radiac provides prompt neutron and gamma dose, residual gamma dose and dose rate information. A push-button pad enables mode selection, functional control and the setting of audio and visual alarm thresholds for both dose-rate and mission dose. A “sleep” mode with automatic wake up is provided to enhance battery life. Data readout and warning/mode messages are provided by liquid crystal display.

Use: The AN/UDR-13 is used to detect and measure nuclear radiation from fallout, radiological contamination and nuclear detonations.

Technical Manuals: 11-6665-364-12
11-6665-364-40&P

Field Manual: 3-11.9

Contamination Avoidance Point Detection



Radiac Set AN/PDR-77

NSN: 6665-01-347-6100

Part Number: A3173160

LIN: R30993

Class of Supply: 7



Description: The AN/PDR-77 is used for nuclear weapons accident response, environmental-level measurement of radiological materials and in monitoring work areas where chemical detectors are stored. The radiac set detects and measures alpha and x-ray radiation while also detecting beta and gamma radiation. The system incorporates commercially available measurement electronics, an alpha probe, beta gamma probe, x-ray probe, a digital liquid crystal display, The device is auto ranging, and has settable audio and/or visual alarm thresholds. This radiac set model is the primary device for monitoring the storage and movement of nuclear weapons, to respond to nuclear accidents, and to maintain Army equipment containing radioactive materials. The AN/PDR-77 has replaced the AN/PDR-56F and AN/PDR-60.

Use: The AN/PDR-77 is used to detect and measure nuclear radiation from nuclear weapons accidents and other sources.

Technical Manuals: 11-6665-365-12&P
11-6665-365-40

Field Manual: 3-11.3
3-11.19

Contamination Avoidance Point Detection



Radiac Set AN/PDR-75

NSN: 6665-01-211-4217

Part Number: C5085500

LIN: R30925

Class of Supply: 7



Description: The AN/PDR-75 Radiac Set consists of the CP-696 Reader and carrying case. The DT-236, Individual Dosimeter, is used with, but is not part of the AN/PDR-75. It provides the capability to monitor and record the exposure of individual personnel to gamma and neutron radiation. This radiac set measures total neutron and gamma dose from 0 to 1999 cGy, responds to and measures prompt radiation from nuclear bursts, will be used to calculate unit radiation status, will be used for medical triage, and will be used for unit reconstitution.

Use: The AN/PDR-75 Radiac Set detects and measures nuclear radiation from fallout and nuclear detonations for individual soldiers.

Technical Manual: 11-6665-236-12
11-6665-236-10-HR
11-6665-236-20&P
11-6665-236-40&P

Field Manual: 3-11.19

Contamination Avoidance Reconnaissance



Family of Tactical Obscuration Devices (FOTOD)

NSN: N/A

Part Number: N/A

LIN: N/A

Class of Supply: N/A



Description: The FOTOD is a group of items (hand tossed and manually emplaced) that produce small to medium obscuration in the visual, infrared or millimeter wave portions of the electromagnetic spectrum. This is in development phase.

Use: FOTOD obscures in the visual, IR and/or MMW portions of the electromagnetic spectrum.

Technical Manual: N/A

Field Manual: N/A

Contamination Avoidance Reconnaissance



M93A1 Nuclear Biological Chemical Reconnaissance System (NBCRS) “FOX”

NSN: 6665-01-372-1303

Part Number: 5-15-14671

LIN: R41282

Class of Supply: 7



Description: The M93A1 Block I Modification NBCRS is a U.S. Army improved version of the German TPz1 Fuchs. It is capable of detecting chemical contamination in its immediate environment through point detection and at a distance through the use of a M21 Remote Sensing Chemical Agent Alarm. It will automatically integrate contamination information from sensors with input from on-board navigation and meteorological systems and rapidly transmit to the Maneuver Control System. The M93A1 also reduces the crew size from four to three soldiers.

Use: The M93A1 Block I Modification NBCRS’s capabilities include standoff vapor detection, reduced crew size, enhanced logistics supportability and maintainability, digitized communications.

Technical Manual: 3-6665-339-10
3-6665-339-12&P

Field Manual: 3-11.9

Contamination Avoidance Reconnaissance



M93A1P1 Nuclear Biological Chemical Reconnaissance System (NBCRS) “FOX”

NSN: 6665-01-540-9327

Part Number: 5-15-32018

LIN: R41282

Class of Supply: 7



Description: The Fox Training System (FTS) is a unit-level trainer that will provide realistic and economical training on the M93A1 NBCRS.

Use: The FTS provides CBRN reconnaissance operators sustainment training and allows commanders and team leaders to simulate CBRN reconnaissance missions in a variety of battlefield simulations.

Technical Manual: 3-6665-339-10
3-6665-339-12&P

Field Manual: N/A

Contamination Avoidance Reconnaissance



M1135 Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV) Stryker

NSN: 2355-01-481-8579

Part Number: 1247960

LIN: N96543

Class of Supply: 7



Description: The NBCRV is in low rate initial production and has the capability to detect and collect chemical and biological contamination in its immediate environment on the move through point detection (Chemical Biological Mass Spectrometer II and Joint Biological Point Detection System), and at a distance through the use of a standoff detector (Joint Services Lightweight Standoff Chemical Agent Detector Increment I). The NBCRV Sensor Processing Group automatically integrates contamination information from detectors with input from on-board navigation and meteorological systems and automatically transmits digital CBRN warning messages through the Vehicle Command and Control Systems to alert follow-on forces.

Use: The NBCRV performs CBRN reconnaissance. It is used to locate, identify, mark, sample and report CBRN contamination on the battlefield.

Technical Manual: 9-2355-311-13&P

Field Manual: 3-11.19

Contamination Avoidance Reconnaissance



Chemical Vapor Sampler System (CVSS)

NSN: 6665-01-537-6901

Part Number: 5-15-30817

LIN: N/A

Class of Supply: 2



Description: The CVSS provides a means to collect and store Chemical Warfare Agents and Toxic Industrial Chemical vapor samples. The samples are collected and stored in 400 ml silicone-lined stainless steel canisters. The canisters are initially under a vacuum. When a sample is taken, a micro pump pulls outside ambient air into the CVSS sample path. A solenoid valve opens allowing the vacuum in the canister to pull a sample from the sample path into the canister.

Use: The CVSS is a component of the end item Stryker Nuclear, Biological, and Chemical Reconnaissance Vehicle (NBCRV).

Technical Manual: EA-S-2240

Field Manual: N/A

Contamination Avoidance Reconnaissance



Joint Service Light Nuclear Biological and Chemical Reconnaissance System (JSLNBCRS)

NSN: N/A

Part Number: 5-15-14501 (see note)
US 462-000.000.000

LIN: R41532

Class of Supply: 7



Description: The system is a vehicle-mounted, integrated suite of CBRN equipment/software that detects, analyzes, marks, collects, and disseminates CBRN data. Two vehicle variants -- the M1113 High Mobility Multipurpose Wheeled Vehicle (HMMWV) and the Light Armored Vehicle (LAV) – Gen II – provide an air-transportable platform for identical equipment suites. The JSLNBCRS automatically integrates digital data (contamination information, meteorological, and positioning) to generate automated NBC warning messages to the tactical commander.

Use: The JSLNBCRS performs CBRN reconnaissance. The JSLNBCRS will detect, identify, mark, collect, correlate, and disseminate CBRN hazard and toxic industrial chemical information over an automated warning and reporting information network.

Note: The Army has withdrawn from the program. The AF and USMC are scheduled to utilize the system.

Technical Manual: N/A

Field Manual: N/A

Contamination Avoidance Smoke Generators-Kits



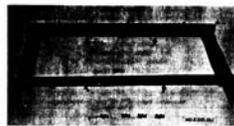
M2 Mounting Kit, Smoke Generator

NSN: 1040-00-347-2434

Part Number: 31-16-10

LIN: M74001

Class of Supply: 2



Description: The M2 Smoke Generator Mounting Kit is a steel frame consisting of two mount side angles and two mount end angles bolted at the four corners with four capscrews, four lockwashers, and four nuts. Four hook bolt assemblies are secured to the two mount side angles with four lockwashers, four wing nuts, and four cotter pins. Separate instructions are provided for securing the M2 mount to the carrier.

Use: The M2 kit is used to mount and transport an M3A3 or M3A4 smoke generator on a vehicle, trailer, or boat.

Technical Manual: 3-1040-255-10
3-1040-276-10

Field Manual: N/A

Contamination Avoidance Smoke Generators-Kits



M284 / M284A1 Mounting Kit, Smoke Generator

NSNs:

1040-01-249-0272

1040-01-379-8595

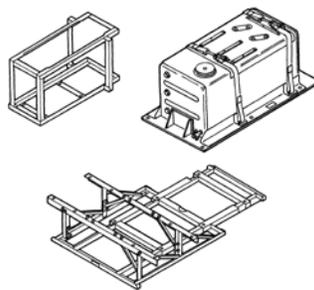
Part Number:

31-15-2680

31-15-2983

LIN: M17931

Class of Supply: 2



Description: the M284 Mounting Kit provides a mobile operating platform for the M157 Smoke Generator

Use: The M284 Smoke Generator Mounting Kit is used to mount the M157 Smoke Generator on the M998 or M1037 Cargo/Troop Carrier. The M284A1 Smoke Generator Mounting Kit is used to mount the M157A2 Smoke Generator set on the M1037/M1097 Cargo/Troop Carrier.

Technical Manuals: 3-1040-280-20&P
3-1040-284-20&P

Field Manual: 3-101-1

Contamination Avoidance Smoke Generators-Kits



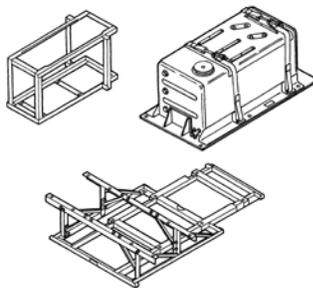
M288 Mounting Kit, Smoke Generator

NSN: 1040-01-248-6985

Part Number: 31-15-2864

LIN: M78620

Class of Supply: 2



Description: The M288 Smoke Generator Mounting Kit mounts up to two M3A4 Smoke Generators on the M998 or M1037 cargo/troop carrier.

Use: The M288 transports smoke generators, provides a stable operating platform, has an open-air design that allows easy maintenance and provides storage of fuel and fog oil for smoke generator operation.

Technical Manual: 3-1040-281-20&P

Field Manual: 3-11.50

Contamination Avoidance Smoke Generators



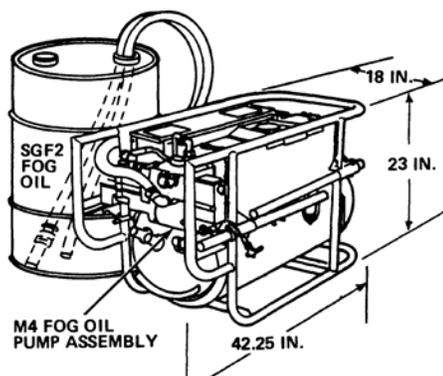
M3A4 Smoke Generator Set (SGS): Pulse Jet Mechanical

NSN: 1040-01-143-9506

Part Number: 31-15-2000

LIN: J30492

Class of Supply: 7



Description: The M3A4 Pulse Jet Mechanical Smoke Generator consists of an engine assembly, fuel tank assembly, air pump assembly (manual inflating pump), magneto air pump assembly, M4 fog oil pump assembly, fog oil inlet hose (rubber hose assembly), tool box assembly, and frame assembly. On-board spares and tools are provided in the tool box as components of the end item.

Use: The M3A4 generator is used to create large area smoke screens that will reduce direct visual observation and conceal troops, vehicles, or installations from enemy view. The M3A4 can be operated on the ground or from a truck, trailer, boat, or other level base.

Technical Manual: 3-1040-276-10
3-1040-276-23
3-1040-276-23P

Field Manual: 3-11.50

Contamination Avoidance Smoke Generators



M56 / M56E Smoke Generator Set (SGS) “The Coyote”

NSN: 1040-01-380-1400

Part Number: 31-15-4001

LIN: G58151

Class of Supply: 7



Description: The M56 Smoke Generating System is the U.S. Army’s first visual and infrared (IR) large area smoke generating system. The system consists of visual, IR, and power modules mounted on the back of an M1113 High Mobility Multipurpose Wheeled Vehicle. Fog oil is pumped into the exhaust gas of a turbine engine to produce visual obscuration and graphite pellets are pulverized to 5 micron particles and disseminated through a separate ejector to produce infrared obscuration. Future versions consist of the M56E1 and the M56P1 models.

Use: The M56 Smoke Generating System is used to defeat enemy Reconnaissance, Surveillance, and Target Acquisition systems to deny the enemy information, protect forces and dominate the maneuver battle.

Technical Manuals: 3-1040-282-10
3-1040-282-20
3-1040-282-23P
3-1040-282-30

Field Manual: 3-11.50

Contamination Avoidance Smoke Generators



M58 Mechanized Smoke Obscurant System “The Wolf”

NSN: 1040-01-413-8332

Part Number: 31-15-3200

LIN: G87229

Class of Supply: 7



Description: The M58 Wolf is an armored mechanized vehicle system consisting of a multi-spectral smoke generator, AN/VAS-5 Driver’s Vision Enhancer, M8A3 NBC contamination filter unit with ventilated face pieces, M2 .50cal machine gun, M259 smoke grenade launchers, and single channel ground airborne system. To enhance mobility and maneuverability, the M58 uses a dedicated chassis consisting of a modified M113A3 carrier. Without refueling or resupply, the Wolf can continuously produce 90 minutes of visual and 30 minutes of infrared (IR) screening smoke. The M58, operated by a three-man crew, will counter threats arising from the wide proliferation of advanced thermal sights, thermal weapons, laser range finders, laser-guided weapons and in the future, radar and millimeter wave guided systems.

Use: The M58 Wolf is used to defeat enemy reconnaissance, surveillance, intelligence and target acquisition systems operating in the visual, IR, and millimeter wave regions of the electromagnetic spectrum. The M58 is a conglomeration of subsystems managed by a variety of commands.

Technical Manuals: 3-1040-285-10
3-1040-285-20
3-1040-285-23P
3-1040-285-30

Field Manual: 3-11.50

Contamination Avoidance Smoke Generators



M157 / M157A2 Smoke Generator Set (SGS) “The Lynx”

NSN: 1040-01-406-7401

Part Number: 31-15-3327-10

LIN: G51840

Class of Supply: 7



Description: The M157A2 Smoke Generator Set produces large area visual smoke screens on the move. The M157A2 uses dual pulse jet engines, operating on standard Army fuels, to produce large white clouds of fog oil vapor which defeat visual-range observation and tracking methods, including lasers. The M157A2 consists of five major components: two M54A2 smoke Generators, Air Compressor Assembly, 120-gallon Fog Oil Tank, Fog Oil Pump Assembly, and Remote Control Panel mounted on a M1037/M1097 High Mobility Multipurpose Wheeled Vehicle with the M284A1 Mounting Kit.

Use: The M157A2 is used to defeat enemy reconnaissance, surveillance and target acquisition systems to deny the enemy information, protect forces and dominate the maneuver battle.

Field Manual: -1040-279-12&P3

Technical Manuals: 3 -11.50

Contamination Avoidance Smoke Generators



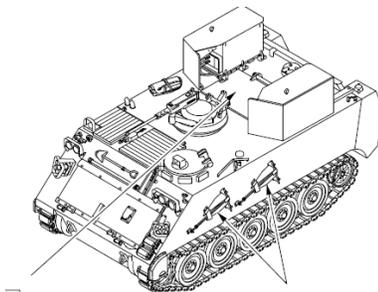
M1059/M1059A3 Smoke Generator Carrier (SGC)

NSN:
2350-01-203-0188
2350-01-369-6083

Part Number:
8750136
8750290

LIN: C12815

Class of Supply: 7



Description: The M1059A3 shown above is built from the same plans as the M113A3 except the M1059A3 has the M157A2 smoke generator system mounted. The M1059A3 carries a crew of three, and it travels easily over rough terrain. It can move at high speeds on improved roads and highways while it is propelled and steered on land and in water by tracks. It is also air transportable and can be dropped by parachute to troops in the field.

Use: This carrier is designed to generate a smoke screen in the battlefield environment.

Technical Manuals: 9-2350-261-10
55-2350-224-14
9-2350-261-12
9-2350-261-20-1
9-2350-261-20-2
9-2350-261-20-3
9-2350-261-20-4

Field Manual: 3-11.50

Contamination Avoidance Standoff



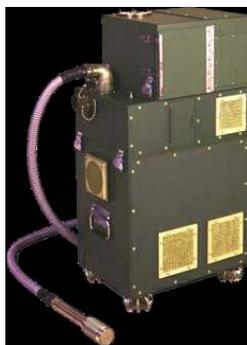
Block II Chemical Biological Mass Spectrometer (CBMS II)

NSN: 6665-12-340-3642

Part Number: MM2400
G 001-1/PDMS 5-15-18601 (not released)

LIN: N/A

Class of Supply: 9



Description: The CBMS II is a small, lightweight ion-trap mass spectrometer that detects and identifies chemical and biological agents on mobile platforms. It is being developed for inclusion in the Stryker Nuclear Biological Chemical Reconnaissance Vehicle (NBCRV), the Joint Service Light Nuclear Biological Chemical Reconnaissance System (JSLNBCRS), and the M93A2 NBC Reconnaissance System. The CBMS II is being further enhanced to detect and identify an expanded list of threat agents.

Use: The CBMS II is used to detect and identify chemical and biological agents as a component of the Stryker NBCRV, JSLNBCRS and the M93A2 NBC Reconnaissance System.

Technical Manual: 3-6665-392-13&P **Field Manual:** N/A

Contamination Avoidance Standoff



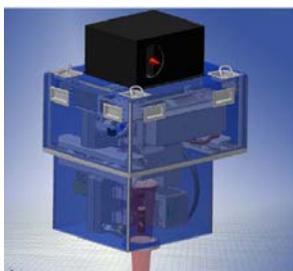
Joint Chemical Surface Detector (JCSD)

NSN: N/A

Part Number: N/A

LIN: N/A

Class of Supply: N/A



Description: The JCSD detects chemical liquid on the ground. The JCSD uses ultraviolet laser technology to interrogate the ground to provide standoff (non-contact) detection of chemical warfare agents, toxic industrial chemicals and non-traditional agents in near real-time. The detector will improve the operational speed of the Stryker-NBCRV and the JSLNBCRS by enabling rapid surface agent detection and identification.

Use: The JCSD is used to locate and identify chemical contamination for marking and providing input for nuclear, biological and chemical reporting.

Technical Manual: N/A

Field Manual: N/A

Contamination Avoidance Standoff



Joint Services Lightweight Standoff Chemical Agent Detector (JSLSCAD)

NSN: 6665-01-475-6787

Part Number: 10214-1000-02
10214-1015-02
10214-1505

LIN: N/A

Class of Supply: 2



Description: The JSLSCAD is a state-of-the-art detection system designed to provide U.S. Forces with enhanced capability in detecting chemical warfare agents. It is a lightweight, passive, and fully automatic detection system that scans the surrounding atmosphere for chemical warfare agent vapors. It furnishes on-the-move, 360 degree coverage from a variety of tactical and reconnaissance platforms at distances up to 5 kilometers. It is a second-generation system that significantly improves on the capabilities of the currently fielded M21 Remote Sensing Chemical Agent Alarm. The JSLSCAD will provide warfighters with enhanced early warning to avoid chemically contaminated battlespace. When avoidance is not possible, the JSLSCAD will give personnel extra time to don Mission Oriented Protective Posture gear.

Contains radioactive material.

Use: The JSLSCAD provides standoff detection and warning for nerve, blister, and blood agent vapor clouds.

Technical Manual: N/A

Field Manual: N/A

Contamination Avoidance Standoff-Kits



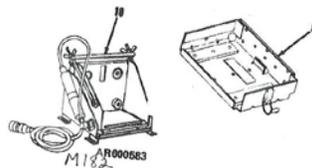
M182 Chemical Agent Automatic Mounting Kit

NSN: 6665-00-110-9492

Part Number: 5-15-5300

LIN: M78317

Class of Supply: 2



Description: The M182 Mounting Kit provides the mount for M43A1 Detector for full-tracked armored personnel carriers and recovery vehicles

Use: . The M182 Mounting Kit is a low profile mounting kit for tracked vehicles. The vehicle must have an installation kit (TM 3-6665-274-20) before the M182 Mounting Kit can be installed.

Technical Manual: 3-6665-312-12&P

Field Manual: N/A

Contamination Avoidance Standoff-Kits



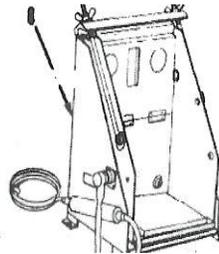
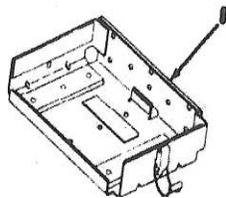
M228 Automatic Chemical Agent Alarm (ACAA) Mounting Kit

NSN: 6665-00-859-2212

Part Number: 5-15-5600

LIN: M78314

Class of Supply: 2



Description: The M228 provides the mount for the M43A1 Detector, with or without battery, for 2-1/2 ton trucks.

Use: The M228 Mounting Kit is a high profile mounting kit for wheeled vehicles. Vehicles must have an installation kit (TM 3-6665-274-20) before the M228 Mounting Kit can be installed.

Technical Manual: 3-6665-312-12&P

Field Manual: N/A

Contamination Avoidance Standoff



M8A1 Automatic Chemical Agent Alarm (ACAA)

NSN: 6665-01-105-5623

Part Number: 5-15-8800

LIN: A32355

Class of Supply: 7



Description: The M8A1 alarm is a portable, point-sampling chemical agent alarm that can be hand-carried, backpacked, or mounted on a tactical vehicle. The M8A1 alarm consists of an M43A1 detector unit and an M42 alarm unit. Power to operate the detector unit is supplied from a 36 Vdc BA3517/U battery; through a M10A1 power supply, which converts 115/220 Vac to 27Vdc; or from the vehicle on which it is mounted. The M42 alarm unit is connected to the M43A1 detector unit by WD-1 field wire when a warning capability remote from the detector is desired. Up to five M42 Alarms may be used for each M43A1 Detector unit and placed at locations remote from the detector. Up to 400 meters of wire may be used to connect the M43A1 to the electrical impulse into both audible and visual warning to soldiers. This item will be replaced with the Joint Chemical Agent Detector. **Contains radioactive material.**

Use: The M8A1 detects very low concentrations of toxic nerve agent vapors or inhalable aerosols, and automatically signals the presence of the chemical agent in the air by providing both audible and visible warning. The M8A1 is to be used by ground troops and fixed sites as an automatic point nerve agent detector and alarm. The M8A1 Alarm System is used primarily to alert stationary units when a cloud of nerve gas has arrived or is about to arrive on their position. When employed in a stationary role, unit personnel will position the systems as soon as they arrive at a new location. The detector units are placed upwind and are connected to the alarm units with standard communication wire. The detector units are positioned based on a doctrinal guide. Once the alarm sounds, the operator must disconnect the power, decontaminate the unit, and go through start-up procedures again to put the alarm back into position.

Technical Manual: 3-6665-312-12&P
3-6665-312-30&P

Field Manual: 3-11.3

Contamination Avoidance Standoff



M21 Remote Sensing Chemical Agent Alarm (RSCAAL)

NSN: 6665-01-324-6637
6665-01-382-1968 (USMC)

Part Number: 5-15-10503

LIN: A32638

Class of Supply: 7



Description: The M21 RSCAAL is the first standoff chemical agent detector approved for fielding to the soldier. It is an automatic scanning passive infrared sensor which detects nerve and blister agent vapor clouds based on changes in the background's infrared spectra caused by the presence of agent vapor. The alarm system consists of a detector, tripod and transit case and uses standard power sources. The detector is mounted on the tripod or integrated into the NBCRS Block-1 Mod. The detector incrementally interrogates along a 600 radius and can see agent clouds at line of sight distances out to 5 kilometers.

Use: The M21 RSCAAL is used to identify nerve and blister agent vapors up to a 5 kilometer distance.

Technical Manual: 3-6665-315-10
3-6665-315-23&P

Field Manual: 3-11.19

Contamination Avoidance Standoff



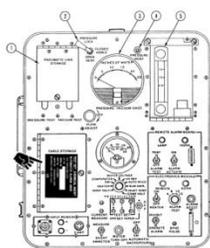
M140 Chemical Agent Automatic Alarm Test Set

NSN: 6665-01-083-2749

Part Number: 5-15-8200

LIN: T70627

Class of Supply: 7



Description: The test set contains a pressure-vacuum gage, ammeter, and circuit card assemblies.

Use: The test set is used in the repair of chemical agent alarms M8, M10-18 that contain the improved M43E1 Detector; it checks the electrical pneumatic circuits of the M43E1 Detector and the electrical circuitry of the M42 Remote Alarm. The test set tests all operational capabilities of the M43A1 Detector and the M42 Alarm Unit. The radiac meter and probe are serialized and must be kept together as a set. The radiac set will not operate with probe detached and can be damaged if attached or detached with the power switch on.

Technical Manual: 3-6665-329-13&P

Field Manual: N/A

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DECONTAMINATION PRODUCTS

Decontamination Agents



High-Test Hypochlorite (HTH)

NSNs:

6840-00-255-0471 (6 oz)
6810-01-225-2682 (25 lbs)
6840-00-255-0472 (100 lbs)

Part Number: N/A

LIN: N/A

Class of Supply: 3

Picture Not Available

Description: High-Test Bleach (HTB) or HTH is a bleach material in granular or tablet form, containing a minimum of 70 percent calcium hypochlorite. The compound contains a higher percentage of chlorine than super tropical bleach (STB) and is, therefore, more corrosive. HTH can be used for the decontamination of individuals and personal protective material. HTH will not blister paint during a decontamination operation that includes a pre-rinse and post-rinse; however, it can severely corrode metals. HTH is irritating to the eyes and skin. Do not inhale the vapors and always wear protective mask and gloves when using HTH. HTH is more corrosive than STB and it will destroy fabric. HTH will burn upon contact with DS2, HD, and VX and will give off toxic vapors upon contact with G-series agent. This item is not recommended for shipboard use and should be stored on top decks. The decontamination agent has a shelf life of two years.

Uses: HTH is utilized for chemical and biological equipment decontamination procedures to include the decontamination of chemical G and V agents, mustard, lewisite, and biological agents. The HTH solution reacts much faster than STB, and a minimum of 15 minutes of contact is needed to be effective against biological agents. The agent can be mixed with water to use as a slurry paste or earth to use as a dry mix. The decontaminating agent is mixed by application per Table C-2 in the Field Manual 3-11.5 Multi-service Tactics, Techniques and Procedures (MTTP) for CBRN Decontamination.

Technical Manual: N/A

Field Manual: 3-11.5

Decontamination Agents



M100 Sorbent Decontamination System (SDS)

NSN: 4230-01-466-9095

Part Number: EA-PRF-2163

LIN: N/A

Class of Supply: 2



Description: The portable M100 SDS consists of two decontamination kits (each containing a wash-type mitt and a 0.7 lb pack of reactive sorbent powder, a case, detailed instructions, and straps. An optional chemical agent resistant mounting bracket is also available. The straps are used for attaching the case to the mounting bracket. The decontamination sorbent powder may be slightly irritating to the eyes and skin. Keep out of eyes, cuts, and wounds. Use only water to wash powder out of eyes, cuts, and wounds. Avoid inhalation of the powder. MSDS has a shelf life of 60 months.

Use: Decontamination is accomplished by rubbing and wiping the contaminated surfaces with sorbent using the mitt. The sorbent powder is first poured onto the palm of the mitt then the mitt is used to rub and wipe the contaminated surfaces until target areas are visually dry. Add more sorbent to mitt as required during decontamination operation. The purpose of immediate decontamination is to remove the gross contamination, limit the spread of the chemical agent, and minimize casualties.

Technical Manual: 3-4230-236-10

Field Manual: 3-11.5

Decontamination Agents



Reactive Skin Decontamination Lotion (RSDL) / Training Packet

NSNs:
6505-01-507-5074
6910-01-507-5141

Part Number:
03-0881
03-0882

LIN: N/A

Class of Supply: 8



Description: The Joint Service Personnel/Skin Decontamination System (JSPDS) is a decontamination system consisting of decontaminant(s) and applicator(s) required to immediately reduce contamination resulting from chemical, biological, radiological, and nuclear contamination of the skin. The JSPDS increase in capabilities lies with its ability to actually neutralize chemical agents rather than simply remove them as with the M291 Skin Decontamination Kit. The RSDL (green packaging) allows you to quickly decontaminate your skin through physical removal and chemical reduction of toxic agents. It has both reactive and absorptive properties. The RSDL Training Lotion (blue packaging) is used for training purposes and it simulates the look, feel, and application of the actual RSDL, allowing for accurate and realistic practice in the application and covering of the skin. Unit of Issue: Box of 20 kits. The RSDL training packet is blue.

Use: The Joint Service Personnel/Skin Decontamination System (JSPDS) will be used by the warfighter to perform immediate decontamination of skin, field protective masks, mask hoods, chemical protective gloves, chemical protective boots, and individual and crew served weapons under .50 Caliber. Each packet of RSDL decontaminates 1300 cm.

Technical Manual: 3-6505-001-10

Field Manual: 3-11.5

Decontamination Agents



Super Tropical Bleach (STB)

NSN: 6850-00-297-6653 (50 LB Drum) **Part Number:** N/A

LIN: N/A **Class of Supply:** 3



Description: Super Tropical Bleach (STB) is a decontaminating agent for most chemical warfare agents. STB is a mixture of chlorinated lime and calcium oxide in a white powder form. STB, in a diluted solution, can be substituted for household bleach. When manufactured, it contains 30 percent available chlorine. Because of this chlorine content, a protective mask and gloves should be worn when handling STB. STB decomposes slowly in storage; this decomposition is easily recognized by the chlorine odor. STB can be expected to cause serious degradation of electronic equipment, it is corrosive to most metals, and it is injurious to most fabrics. It has a slight effect on nonmetals and a moderate effect on sealants. The vapor given off during the reaction with chemical agents is likely to be toxic. STB should not be used to decontaminate aircraft surfaces. It ignites on contact with liquid mustard agent or DS2. This reaction may be severe enough to produce a flame. Bleach is corrosive to most metals and fabrics so rinse thoroughly and oil the metal surfaces after completion.

Uses: STB is utilized for chemical and biological equipment decontamination procedures to include the decontamination of mustard, lewisite, and nerve agents. The decontaminating agent is mixed in one of two forms, a slurry mixture or a dry mix. This mixture consists of STB thoroughly mixed with dry earth.

Technical Manual: N/A

Field Manual: 3-11.5

Decontamination Kits



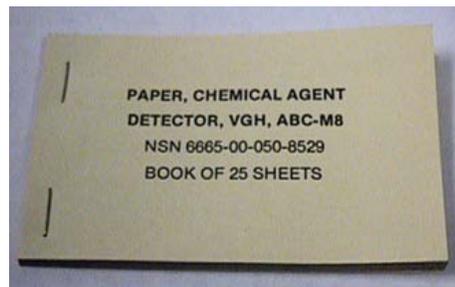
M8 Chemical Agent Detector Paper

NSN: 6665-00-050-8529

Part Number: 5-67-266

LIN: N/A

Class of Supply: 2



Description: The M8 Paper is issued in a book of 25 tan sheets of chemically-treated, dye-impregnated paper, perforated for easy removal. A color comparison bar chart is printed on the inside of the front cover of the book. The book is heat-sealed in a polyethylene envelope. Shelf life – 120 months

Use: To detect the presence of liquid VGH chemical agents.

Technical Manual: N/A

Field Manual: 3-11.5

Decontamination Kits



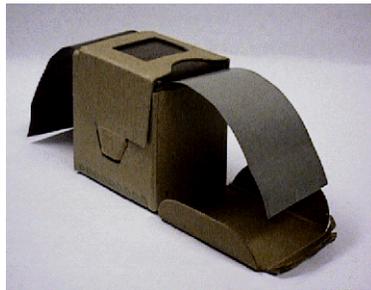
M9 Chemical Agent Detector Paper

NSN: 6665-01-226-5589

Part Number: 5-67-280

LIN: N/A

Class of Supply: 2



Description: M9 Paper is a portable, expendable single roll of paper which comes with mylar-adhesive backed and coated tape. The paper's dimensions are approximately two inches wide by 30 feet long. It is packed in a cardboard dispenser with a serrated edge and colored a pale green with insoluble pigments. The paper also contains a suspension of an agent sensitive dye in a paper matrix. Shelf Life – 96 months.

Use: Used by ground forces and is placed on personnel and equipment to identify the presence of liquid chemical agent aerosols.

Technical Manual: 3-6665-311-10

Field Manual: 3-11

Decontamination Kits



M291 Skin Decontamination Kit

NSN: 6505-01-276-1905

Part Number:
5-77-2301
5-77-2305

LIN: N/A

Class of Supply: 2



Description: Each M291 Skin Decontamination Kit consists of a wallet-like carrying pouch containing six individual decontamination packets, enough to do three complete skin decontaminations. Each packet contains an applicator pad filled with decontamination powder. Unit of issue is one box of 20 kits.

Use: Decontamination is accomplished by application of a black decontamination powder contained in the applicator pad. The M291 Skin Decontamination Kit allows you to completely decontaminate your skin through physical removal, absorption, and neutralization of toxic agent with no long-term harmful effects.

Notes: This product is for external use only! The powder may be slightly irritating to eyes or skin, therefore, keep the decontamination powder out of eyes, cuts, or wounds. Avoid inhalation of powder. The M291 Decontamination Kit is being replaced with Reactive Skin Decontamination Lotion (RSDL). This item has a shelf life of 60 months.

Technical Manual: 3-4230-229-10

Field Manual: 3-11.5

Decontamination Kits



M295 Individual Equipment Decontamination Kit (IEDK)

NSN: 6850-01-357-8456

Part Number: 5-77-3201

LIN: N/A

Class of Supply: 2



Description: Each M295 kit consists of four individual decontamination packets, which provides for two complete decontaminations of individual equipment. Each packet contains a decontamination mitt containing a highly adsorptive and partially reactive sorbent powder. The unit of issue is one box of 20 kits.

Use: The M295 allows soldiers to decontaminate their individual equipment through physical removal and adsorption of chemical agents. Decontamination is accomplished by application of a decontamination powder contained in the applicator mitt.

Notes: The decontamination powder may be slightly irritating to the eyes and skin. It opens skin pores and thus the individual is less protected from Chem/Bio agents. Keep out of eyes, cuts, and wounds. Use only water to wash powder out of eyes, cuts and wounds. Avoid inhalation of the powder. The shelf life is 60 months.

Technical Manual: 3-4230-235-10

Field Manual: 3-11.5

Decontamination Power



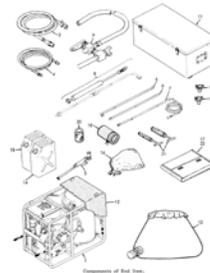
A/E 32U-8 Portable Power Driven Decontaminating Apparatus

NSN: 4230-01-153-8660

Part Number: 26000-100

LIN: D82404

Class of Supply: 7



Description: The portable decontaminating apparatus consists of five major systems: air-cooled, two-cycle, gasoline engine to pump the water and operate the heater fan; air system; water supply system; temperature control system; and electronic control panel to control system functions. The control panel performs the functions of monitoring water temperature/pressure and controlling burner ignition. The combination of these systems provides a continuous supply of pressurized, temperature controlled water for decontamination operations. No external power is required to operate the system; only sources of water and fuel are required. A 1580 gallon collapsible water tank is supplied. A 3000 gallon tank is provided; the 1580 gallon tank is no longer available. The system includes a 15 person shower assembly.

Use: The A/E 32U-8E performs decontamination of material and equipment using the cleaning wands, decontamination of personnel using the showers, decontamination using the injector, and decontaminating agents.

Notes: The A/E 32U-8E is being phased out of the DoD inventory and replaced with the M17 Series Decontamination Equipment.

Technical Manuals: 3-4230-218-12&P
3-4230-218-30&P

Field Manual: 3-11.5

Decontamination Power



Joint Service Transportable Decontamination System-Small Scale (JSTDS-SS)

NSN: 4230-01-555-0686

Part Number: 91001-100

LIN: N/A

Class of Supply: 7



Description: The JSTDS-SS module is a diesel-motor powered high-pressure cleaning and decontamination system that produces cold water, warm water (50 °C/120 °F), and hot water (80 °C/176 °F). The lightweight system (560 pounds/255 kilograms) is transportable, yet the small-scale system will require MHE for movement. The decontamination system is capable of using water from any source - fresh, still, or saltwater to decontaminate vehicles, soldiers, shower facilities, laundries, and field hospitals. System accessories include 3,000-gallon water tanks, and a 15-person decontamination shower. The JSTDS-SS replaces the M17 Lightweight Decontamination System (LDS).

Use: The JSTDS-SS provides the capability to conduct decontamination of medium-to-large mobile or fixed equipment, aircraft, facilities, shelters, surface areas, and terrains. The system's incremental development approach initially provides improved capabilities over current systems. Increment II will focus on improving overarching decontamination processes, efficacy, and system capabilities for operational and thorough decontamination of non-sensitive equipment.

Notes: The JSTDS-SS will replace the M17 series Decontamination Apparatus.

Technical Manual: 3-4230-238-13 & P **Field Manual:** 3-11.5

Decontamination Power



Kärcher Multipurpose Power Driven System (MPDS)

NSN: 4230-01-514-1371

Part Number: MFG1713

LIN: N/A

Class of Supply: 7



Description: The Multipurpose Decontamination System (MPDS) is a Commercial Off-The-Shelf (COTS) decontamination system. The MPDS is a portable, rugged, high pressure, easy-to-use, multi-purpose system for conducting decontamination operations. The MPDS is a diesel motor powered system that utilizes high-pressure, self-priming water pumps to draw water supply from creeks, rivers, hydrants, or water tanks. The system is capable of performing the same immediate and operational decontamination procedures as required of any of the M17 Lightweight Decontamination Systems.

Use: The MPDS can be used for cleaning operations involving vehicles, equipment, and facilities, as well as a shower system for personnel. The Multi-Purpose Decontamination System (MPDS) will be used in-lieu-of the M17 for immediate and operational decontamination, as well as personnel shower capability.

Technical Manual: Manufacturer's Manual

Field Manual: 3-11.5

Decontamination Power



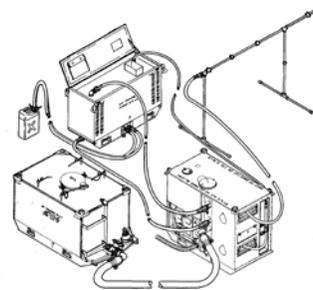
M12A1 500 Gallon Skid-Mounted Power Driven Decontaminating Apparatus

NSN: 4230-00-926-9488

Part Number: D5-45-3264

LIN: F81880

Class of Supply: 7



Description: The M12A1 Decontaminating Apparatus is skid mounted designed for enhanced field mobility and is typically mounted on a five ton tactical truck for tactical mobility, but can also be dismounted for use or to facilitate air transport. The M12A1 consists of three main components: a pump unit; a 500 gallon tank unit; and a 600 gallon per hour liquid fuel water heater. This system is a flexible decontamination system that can be used for several purposes such as de-icing, fire fighting (water/foam), water pumping/transport, and personnel showering, in addition to equipment and area decontamination.

Use: The M12A1 Decontamination Apparatus pump unit assembly prime-detergent tank holds priming water, detergent, and/or foaming liquids powered by a gas air-cooled engine. The M2 water heater in combination with the pump unit and tank unit provide hot water for decontaminating and for showering troops in the field. The pump has the capability of delivering up to 50 gallons of water or STB decontaminating agent slurry per square inch. Other key system components include the 500-gallon, stainless-steel tank with a working capacity of 447 gallons of water or 317 gallons of slurry. The hopper-blender assembly and fluid agitation system in the tank are used to blend STB decontaminating agent and water. The M12A1 Decontamination Apparatus has the additional capability of providing a field shower assembly for showering up to 24 persons at one time.

Notes: Not authorized for use with defoliants, herbicides, or insecticides. The Marine Corps replaced the M12A1 PDDA with the M17 Series Lightweight Decontamination Apparatus. The gas version should be turned in for an upgraded, diesel engine version.

Technical Manuals: 3-4230-209-10
3-4230-209-20&P
3-4230-209-30&P

Field Manual: 3-11.5

Decontamination Power



M12A1 500 Gallon Skid-Mounted Decontaminating Apparatus Diesel Engine Driven (DED)

NSN: 4230-01-502-7224

Part Number: 5-45-8483
5-45-3264-20

LIN: F81880

Class of Supply: 7



Description: The M12A1 DED Decontamination Apparatus consists of three components: the pump unit; 500 gallon tank unit; and water heater unit. The system's control panel contains all the gages, switches and valves for operating the engine and pump. The pump unit is powered by a diesel engine that operates on diesel or JP-8 fuel. The front and rear engine panels have latches that allow access to the engine. In addition, the rear panel opens to allow venting of exhaust during operation. The side engine panel has been vented and has an air intake cone that allows the system to operate without physically removing the engine panels. The stationary or mobile decontaminating apparatus is intended for field use.

Use: The M12A1 DED is capable of large area decontamination missions, spraying decontaminating materials, fighting fires, de-icing, cleaning vehicles, and showering personnel. It is not authorized for use with defoliants, herbicides, or insecticides.

Technical Manual: 3-4230-237-10 **Field Manual:** 3-11.5
Technical Bulletin 3-4230-209-23 is applicable

Decontamination Power

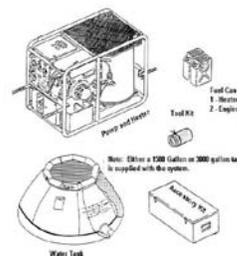


M17 Series Lightweight Power-Driven Decontaminating Apparatus

NSNs:	Part Number:
4230-01-251-8702 (M17-1580 Gal)	5-45-5299-10
4230-01-303-5225 (M17A1-3000 Gal)	5-45-5299-20
4230-01-346-1778 (M17A2-1580 Gal)	5-45-5299-30
4230-01-346-3122 (M17A3-3000 Gal)	5-45-5299-40

LIN: D82404

Class of Supply: 7



Description: The Lightweight Decontamination System (LDS) is a compact, lightweight, portable decontamination system. It consists of a 7.3 horsepower engine, a self-priming pump for drawing and pressurizing water, a fan assembly to deliver combustion air to the heater, a water heater with a coil of tubing 90 feet (27.45 meters) long, a self-priming pump for the heater fuel system, and a small generator to supply electricity for ignition and safety control functions. Depending on the model number either a 1580 or 3000 gallon collapsible water tank with cover is supplied. The LDS is transportable by 3/4-ton trailers, 5/4-ton cargo trucks, cargo aircraft, and helicopters.

Use: The LDS provides pressurized water delivery to decontaminate equipment and material exposed to nuclear, biological, or chemical agents. The unit can also provide showers for personnel.

Notes: The current Army standards system is the M17A3. The 1580 gallon tank is replaced by the 3000 gallon tank.

Technical Manuals: 3-4230-228-10 **Field Manual:** 3-11.5
3-4230-228-23&P

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GUARDIAN PRODUCTS

Guardian Detection Systems



Battlefield Anti-Intrusion System (BAIS)

NSN: 6350-01-512-7177

Part Number:

AN/PRS-9

K10048842-501

K10048842-503

LIN: B57077

Class of Supply: 7



Description: The BAIS is a type classified Tactical Unattended Ground Sensor (T-UGS) system. It provides the capability for early detection of vehicles and personnel to enhance soldier survivability. In defensive and ambush type operations, it enhances the time available to determine an appropriate tactical response. Development emphasis was placed on weight, ease of deployment, operation, recovery, and producibility.

Use: N/A

Technical Manual: 11-6350-296-12&P

Field Manual: N/A

Guardian Detection Systems



Integrated Commercial Intrusion Detection System (ICIDS)

NSN: N/A

Part Number: N/A

LIN: N/A

Class of Supply: N/A



Description: Integrated Commercial Intrusion Detection System (ICIDS) is a highly secured, standardized intrusion detection system using sophisticated technology. The ICIDS provides the means to detect and assess, as required, the unauthorized intrusion or attempted intrusions of protected areas. The system components consist of commercially available interior and exterior sensors, a Primary Monitor Console, Remote Status Monitors, Remote Area Data Collectors, Closed Circuit Television, and Entry Control Systems. The ICIDS is a compilation of Commercial Off-The-Shelf (COTS) items.

Use: N/A

Technical Manual: 5-6350-275-10

Field Manual: N/A

Guardian Detection Systems



Mobile Detection Assessment and Response System (MDARS) MDARS-I (Interior) MDARS-E (Exterior)

NSN: N/A

Part Number: N/A

LIN: N/A

Class of Supply: N/A



Description: The MDARS system is capable of autonomous detection, assessment, response, and communications. It is capable of operating in a stand-alone mode or in conjunction with existing Intrusion Detection System (IDS). It consists of pairs of mobile platforms employing a suite of sensors that are autonomously controlled by a monitor panel. The MDARS provides commanders an automated means of conducting random patrols in both interior and exterior environments. The MDARS monitor point may be co-located with and operated by existing qualified IDS or Integrated Commercial Intrusion Detection System (ICIDS) monitor point personnel. The MDARS monitor point has operational control of the system, and makes automatic digitized records of all operations including the capability to record video images. MDARS relies on a communication network to ensure virtually continuous two-way communication to include repeaters/relays, and possibly fiber optic cabling. MDARS is programmable for a variety of functions.

Use: MDARS is capable of conducting continuous (24 hours a day, 7 days a week) operations.

Technical Manual: N/A

Field Manual: N/A

Guardian Installation Protection Program [IPP]



Tier I

NSN: N/A

Part Number: N/A

LIN: N/A

Class of Supply: 7



Description: A Family of Systems that supplements other aspects of force protection at selected Department of Defense installations to provide CBRN capabilities against potential weapons of mass destruction events at those installations.

Use: Systems include readily available government off-the-shelf items; commercial off-the-shelf items; government-furnished equipment; government-furnished information, such as operational and employment procedures; tactics, techniques, and procedures; installation plans; and training materials that together provide an integrated CBRN protection capability for individual first responders. Additionally mass notification systems such as Giant Voice, telephone alerting and internal building systems are included to complete the overall CBRN response package.

Technical Manual: N/A

Field Manual: N/A

Guardian Installation Protection Program [IPP]



Tier II

NSN: N/A

Part Number: N/A

LIN: N/A

Class of Supply: N/A



Description: A Family of Systems similar to IPP Tier I that is enhanced with permanent detection equipment.

Use: Systems include readily available government off-the-shelf items; commercial off-the-shelf items; government-furnished equipment; government-furnished information, such as operational and employment procedures; tactics, techniques, and procedures; installation plans; and training materials that together provide an integrated CBRN protection capability for individual first responders. Additionally mass notification systems such as Giant Voice, telephone alerting and internal building systems are included to complete the overall CBRN response package. Also includes the use of fixed chemical and radiological detector systems.

Technical Manual: N/A

Field Manual: N/A

Guardian Consequence Management



Analytical Laboratory System (ALS)

NSN: N/A

Part Number: N/A

LIN: N/A

Class of Supply: 7



Description: The ALS is a C-130 air transportable system that uses commercial off the shelf equipment that can analyze chemical warfare agents, toxic industrial materials, toxic industrial chemicals and biological warfare agents. The ALS has the capability of establishing communications through the Unified Command Suite (UCS) to local, state, federal laboratories and other agencies for confirmatory analysis of suspect agent.

Use: The ALS provides the capability to the Civil Support Teams to conduct presumptive analysis of unknown or potential agents at an incident site and transmit that information electronically via the UCS in support of the First Responder Incident Commander.

Technical Manual: N/A

Field Manual: N/A

Guardian Consequence Management



Unified Command Suite (UCS)

NSN: N/A

Part Number: N/A

LIN: N/A

Class of Supply: 7



Description: The UCS vehicle is a self-contained, stand-alone C-130 air mobile communications platform intended to provide both voice and data communications capabilities to Civil Support Team (CST) Commanders. The UCS consists of a combination of commercial off the shelf and existing government off the shelf communications equipment (both secure and non-secure data) to provide the full range of communications necessary to support the CST mission. It is the primary means of reach back communications for the Analytical Laboratory System for the CSTs, and acts as a command and control hub to provide a common operational picture for planning and executing an incident response.

Use: The UCS provides the reach back communications for connectivity with higher authority and technical support agencies, allowing CST Commanders the ability to assess the incident scene, advise the response team, and facilitate access to Department of Defense information in support of the First Responder Incident Commander.

Technical Manual: N/A

Field Manual: N/A



INDIVIDUAL PROTECTION PRODUCTS

Individual Protection Filters



C2/C2A1 Canister

NSN: 4240-01-361-1319

Part Number: 5-3-120

LIN: N/A

Class of Supply: 9



Description: The C2A1 Canister is colored green and replaced the C2 Canister which is colored black. The primary difference between these two filters is the type of carbon used. The C2 Canister used ASC-Whetlerite carbon, which contained Hexavalent Chromium, a hazardous waste. The C2A1 Canister contains ASZM-TEDA carbon that does not have any hazardous waste. However, before discarding a C2A1 you must check with your local environmental office prior to disposing of canister to ensure the carbon meets state hazardous waste criteria. Both model canisters have NATO standard threads and five-year renewable shelf life.

Use: These canisters consist of a gas and particulate filter which remove chemical and biological agents and radioactive particles. These canisters are used across the Military Services with various CBRN Protective Masks including the M4OA1 Mask, M42A2 Mask, M45 Mask, M48 Mask and MCU-2A/P Mask.

Technical Manual: N/A

Field Manual: 3-11.4

Individual Protection Filters



M50 Series Filter

NSN: 4240-01-529-2289

Part Number: 8680-710-01-2
71024/1

LIN: N/A

Class of Supply: 9



Description: The M50 filter meets the requirements of the U.S. Department of Defense new Joint Services General Mask program, and went into operational service in 2006 with the U.S. Army, Navy, Air Force and Marine Corps meeting the diverse demands of all four armed forces. Developed to enable wearers to complete their mission in the multiple threat environment of modern war fighting and peace keeping operation. The M50 incorporates the latest technological features; twin conformal filters, wide field of view face piece and improved fit and comfort. The M50 was designed with twin filter canisters to help lower breathing resistance and increase compatibility with other equipment.

Use: This filter provides high protection against traditional chemical warfare agents radioactive dusts, mists, fumes, and toxic industrial chemicals. The M50 mask was designed with twin canisters to help lower breathing resistance while improving filtration to cope with increasing demands. It provides better balance and a larger filtration surface that a single canister cannot. The dual canister also provides for better rifle sighting, whether the rifleman is left or right handed.

Technical Manual: 3-4240-542-13&P

Field Manual: N/A

Individual Protection Masks



A/P22P-14(V) Chemical Biological Respirator Assembly

NSN: N/A

Part Number: N/A

LIN: N/A

Class of Supply: N/A



Description: The A/P22P-14(V) Chemical Biological Aviator Mask is developed in four different variants to outfit helicopter and fixed wing platforms and first fielded prior to Desert Shield/Desert Storm. The A/P22P-14(V) is designed for compatibility with most Aviation Life Support Systems at the time. The motor blower provides filtered, breathable air that keeps the head cool and prevents the eye lenses from fogging. The respirator assembly is a totally man-mounted configuration that requires no aircraft modifications. All components are stowed on the aircrew by means of either survival vest modification pockets or an overvest assembly. It replaced the obsolete M24 Mask for rotary wing and some fixed wing platforms and provides systems capability improvements over the M43 Chemical Biological Aircrew Mask.

Use: The A/P22P-14(V) provides protection for respiratory tract, eyes, head, neck and shoulders against all chemical, biological and particulate radiological contamination threats.

Technical Manual: NAVAIR 13-1-6.10

Field Manual: NAVAIR 00-80T-121



Individual Protection Masks

MBU-19/P Aircrew Eye Respirator Protection (AERP)

NSN: N/A

Part Number: N/A

LIN: N/A

Class of Supply: N/A



Description: The AERP provides aircrew with above-the-neck chemical/biological protection. AERP was first developed, tested, and fielded during Operation Desert Storm. The AERP system includes a hood, MBU-12/P mask, C-2 filter, an intercom for ground communications, and a blower assembly that provides de-misting. The AERP modification program transforms the aircraft's oxygen, communication and electrical connections, to accept the AERP equipment. It included the design and development of modification kits, procurement of kits and the associated kit installations onto the aircraft.

Use: The AERP provides aircrew members above-the-neck chemical/biological agent protection. Primary user includes USN and USAF personnel.

Technical Manual: N/A

Field Manual: N/A



Individual Protection Masks

MCU-2/P Gas Mask

NSNs:

4240-01-175-3443 (S)
4240-01-175-3444 (M)
4240-01-175-3445 (L)

Part Number:

864-01-1
864-01-2
864-01-3

LIN: N/A

Class of Supply: 7



Description: The MCU-2/P mask was superseded by the MCU-2A/P mask beginning in 1990. The MCU-2/P Gas Mask was adopted by the USAF and Navy in 1983, based on the XM30 developmental design. The MCU-2/P mask also accommodates the use of the standardized tri-service/NATO canisters. The second phase of MCU-2/P masks are slightly different, with a blue-tint eye lens that offers ultra violet protection, improved clarity, and reduced lens discoloration due to aging. Other MCU-2/P mask improvements were made to the outlet valve assembly. Second phase MCU-2/P masks can be identified by the circular manufacture date indicator stamped on the lower side strap of the mask. The top two numbers in the center of the stamp identify the production year. All second phase MCU-2/P masks will be stamped with '02' or higher dates. The MCU-2/P mask is to be replaced by the Joint Service General Purpose Mask (JSGPM).

Use: The MCU-2/P mask provides protection against chemical and biological agents, toxins, and radiological fallout particles.

Technical Manual: Navy S6470-AB-MMO-101 **Field Manual:** 3-11.4

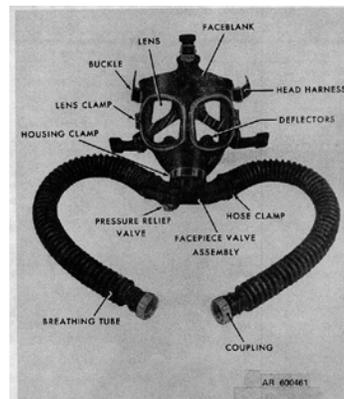
Individual Protection Masks



M20 Breathing Apparatus, Oxygen Generating

NSN: 4240-00-678-5263
LIN: C19640

Part Number: MILB51254
Class of Supply: 2Z



Description: The M20 oxygen-generating breathing apparatus (OBA) is a self-contained breathing device that operates independently of outside air. It is carried on the operator's back and will supply oxygen for 60 minutes. To ensure sufficient time for use of the OBA in an emergency, a safe limitation of 45 minutes has been established for the life of the canister. The breathing apparatus consists of a facepiece group, backplate assembly, harness assembly, oxygen generating canisters, spanner wrench, and accessories.

Use: Since the wearer breathes only oxygen generated within the canister, the breathing apparatus can safely be used to provide respiratory protection against irrespirable gases, vapors, aerosols, or combinations thereof, and in oxygen-deficient atmospheres. The hood presently issued with the breathing apparatus has no inner seal (such as that on the M3 toxicological agent protective hood) which can be used to provide an effective, vapor proof seal with the M3 toxicological agent protective suit. Also, the stitching holes in the seams of the M20 hood have not been sealed. Use of the breathing apparatus with hood in atmospheres having high concentrations of chemical or biological agents may result in physiological reactions caused by absorption of the agent through the skin in the head or neck areas. Since, at this time, there is no protective hood which can be used with the breathing apparatus to provide impermeable protection to the head and neck areas of the wearer, the breathing apparatus must not be used for chemical biological protection in atmospheres where the use of full impermeable protective clothing is required.

Tech Manual: 3-4240-212-14&P

Field Manual: N/A



Individual Protection Masks

M40A1 Field Chemical Biological Mask / M42A2 Combat Vehicle Chemical Biological Mask

NSNs:

4240-01-370-3821 (S)
4240-01-370-3822 (M)
4240-01-370-3823 (L)

Part Number:

5-1-2740-10
5-1-2740-20
5-1-2740-30

4240-01-413-4100 (S)
4240-01-413-4101 (M)
4240-01-413-4102 (L)

5-1-3328-10
5-1-3328-20
5-2-3328-30

LIN: M12418 / M18526

Class of Supply: 7



Description: The M40/42 series protective masks provide eye-respiratory face protection from Chemical Biological (CB) warfare agents, toxins and radioactive fallout particles. Each Mask consists of silicone rubber face piece with an in-turned peripheral face seal and binocular rigid lens system. The face piece provides optimum liquid agent protection for the mask. It accommodates NATO standard canisters, which can be worn on either cheek of the mask. The M40 series is designed for the individual ground warrior, while the M42 series is designed for combat vehicle crewmen. The mask will not be fully effective in confined spaces when the oxygen content of the air is too low. The CB mask has only been tested and verified to protect against known military agents.

Use: The M40/42 series protects face, eyes, and lungs from field concentrations of chemical biological agents, toxins, and radioactive fallout particles.

Technical Manual: 3-4240-346-10
3-4240-346-20&P

Field Manual: 3-11.4



Individual Protection Masks

M48 Apache Aviator Chemical Biological Mask

NSNs:

4240-01-386-0198 (S)
4240-01-386-4686 (M)
4240-01-386-0201 (L)
4240-01-386-0207 (XL)

Part Number:

5-1-3300-10
5-1-3300-20
5-1-3300-30
5-1-3300-40

LIN: M13515

Class of Supply: 7



Description: The M48 Chemical Biological (CB) Apache Aviator Mask was developed for the AH-64 Apache Helicopter aviators. The M48 was designed for compatibility with the Integrated Helmet and Display Sighting System and the Optical Relay Tube subsystems of the Apache. The M48 Mask has a lightweight motor blower that is mounted on the user during dismounted operations and is mounted to the airframe during flight operations. The motor blower provides filtered, breathable air that keeps the head cool and prevents the eye lenses from fogging.

Use: Provides face, eye and respiratory protection from CB agents, toxins and radioactive particulate matter.

Technical Manual: 3-4240-342-10
3-4240-342-20&P

Field Manual: 3-11-4



Individual Protection Masks

M45 Land Warrior Chemical Biological Mask / M45 Air Crew Chemical Biological Mask

NSNs:

4240-01-447-6989 (XS)
4240-01-447-6987 (S)
4240-01-447-8967 (M)
4240-01-447-6988 (L)

Part Number:

5-1-2800-50
5-1-2800-60
5-1-2800-70
5-1-2800-80

4240-01-414-4034 (XS)
4240-01-414-4035 (S)
4240-01-414-4051 (M)
4240-01-414-4052 (L)

5-1-2800-10
5-1-2800-20
5-1-2800-30
5-1-2800-40



LIN: M12736

Class of Supply: 7

Description: The M45 Mask is used by all Army aircrew members except AH-64 (Apache) helicopter pilots in the conduct of aviation missions anywhere in a Chemical Biological (CB) environment. The mask consists of close-fitting eye lenses, front and side voicemitters for face-to-face and telephone communication, a low profile canister interoperability hose assembly to allow both hose and face mounted configurations, a rubber facepiece with an in-turned peripheral seal, a second skin, and a hood. The mask provides the required CB protection without the aid of forced ventilation air. The M45 Mask supports the Land Warrior program and serves as the mask for personnel who cannot be fitted with the standard M40A1, M42A2, or MCU-2A/P protective masks. The mask will not be fully effective in confined spaces when the oxygen content of the air is too low. The CB mask has only been tested and verified to protect against known military agents. Soldiers should not wear hair styles which could interfere with the fit of the facepiece.

Use: The M45 Mask provides aircrew and hard-to-fit personnel with protection against known chemical and biological threat agents and radiological particulates.

Technical Manual: 3-4240-348-10

3-4240-348-20&P

3-4240-341-10

3-4240-341-20&P

3-4240-341-20-1 Hard to Fit Service Members

TB 3-4240-341-20 Thermoplastic Liner

Field Manual: 3-11.4

Individual Protection Masks



Self Contained Breathing Apparatus (SCBA)

NSN: 4240-01-449-1526

Part Number: 8-1-820-1

LIN: B20095

Class of Supply: 2



Description: The rebreather is a modified version of the commercially available National Institute for Occupational Safety and Health approved Biomarine™ Biopak 240 self-contained breathing apparatus. The rebreather is a closed-circuit breathing system, which is worn under the STEPO suit. It circulates exhaled air through a scrubber that absorbs the carbon dioxide. The effluent then is mixed with an oxygen stream supplied from a compressed oxygen bottle and is reintroduced into the respirator face-piece, where it is inhaled. Together, the rebreather and its oxygen bottle weigh approximately 35 pounds and can provide a 4-hour air supply.

Use: The rebreather is a portable respiratory protective device, which supplies air to the wearer from self-contained air cylinder(s) without recourse to atmospheric air supply. It also provides a breathing gas containing oxygen and recycled exhaled gas. This recycling reduces the volume of breathing gas used, making a rebreather lighter and more compact than an open-circuit breathing set for the same duration in environments where humans cannot safely breathe from the atmosphere.

Technical Manual: 3-4240-351-23&P

Field Use: 3-11.4



Individual Protection Masks

M50 Joint Service General Purpose Mask (JSGPM), Land Warrior M51 Joint Service General Purpose Mask (JSGPM), Combat Vehicle

NSNs:

Land Warrior

4240-01-512-4431 (S)
4240-01-512-4434 (M)
4240-01-512-4437 (L)

Part Number:

5-1-3526-10
5-1-3526-20
5-1-3526-30

LIN: M12986

Combat Vehicle

4240-01-512-4429 (S)
4240-01-512-4435 (M)
4240-01-512-4436 (L)

5-1-3527-10
5-1-3527-20
5-1-3527-30

LIN: M13236

Class of Supply: 2



Description: Joint Service General Purpose, Field, M50 and the Mask, Chemical Biological: Joint Service General Purpose, Combat Vehicle, M51 are designed to provide 24 hours continuous head-eye-respiratory Chemical/Biological, radiological particulates, and Toxic Industrial Chemical (TIC) protection, and improve overall mission performance of the Warfighter. The M50 and M51 will fulfill all of the functional requirements for inter-service and service-unique missions. The mask components are optimized to minimize impact on the wearer's performance and to maximize its ability to interface with future Service equipment and protective clothing.

Use: The JSGPM provides face, eye, and respiratory protection from battlefield concentrations of chemical-biological agents, toxins, toxic industrial materials, and radioactive particulate matter.

Technical Manual: 3-4240-542-13&P

Field Manual: 3-11.4

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Individual Protection Masks



M52 Joint Service Chemical Environment Survivability Mask (JSCESM)

NSN: 4240-01-517-8455

Part Number: 5-1-3530

LIN: N/A

Class of Supply: 2



Description: The M52 JSCESM is a commercial off the shelf, lightweight, low bulk, short duration protective mask/hood capable of providing warfighters with above the neck, respiratory, and ocular protection against low-level threat CBRN attacks. The JSCESM protects against non-direct contact hazards such as chemical vapors, fumes, and airborne biological and radiological particulate hazards. The mask has a shelf-life of 10 years.

Use: The JSCESM provides 2 hours of continuous above-the-neck, respiratory, and ocular protection against low-level threat CBRN vapor, aerosol, and particulate attacks. JSCESM is used when the standard issued equipment (e.g., M40, MCU-2/P, etc.) is not practical.

Technical Manual: N/A

Field Manual: N/A

Individual Protection Masks



M53 Joint Service General Purpose Mask (Special Operations Variant)

NSNs:

Right Canister Mount

4240-01-526-2163 (XS)

4240-01-526-3293 (S)

4240-01-526-2164 (M)

4240-01-526-2168 (L)

Part Number:

5-1-3529-20

5-1-3529-40

5-1-3529-60

5-1-3529-80

Left Canister Mount:

4240-01-526-2166 (XS)

4240-01-526-2167 (S)

4240-01-526-2165 (M)

4240-01-526-2169 (L)

5-1-3529-10

5-1-3529-30

5-1-3529-50

5-1-3529-70



LIN: N/A

Class of Supply: 2

Description: The M53 Chemical Biological (CB) Protective Mask System consists of a facepiece assembly, filter, waterproof bag, clear outsert, protective hood, mask carrier, operator cards, audio frequency amplifier, faceform, amplifier adapter and dynamic microphone. The M53 Mask is a positive pressure-capable individual protective mask designed to provide above-the-neck, head, ocular and respiratory protection against known chemical/biological agents and radioactive particles as well as emerging CBRN threats. The M53 Mask provides improved, self-contained and powered air breathing systems interface, increased visual field of view, reduced weapons systems sighting interference and is compatible with Joint and Special Operations Forces peculiar integrated ensembles.

Use: The M53 Mask has been developed to meet the specific requirements of Special Operations Units to protect against the multiple threats encountered in modern warfighting and peacekeeping operations. It provides high protection against traditional chemical warfare agents, radioactive dusts and biological threats.

Technical Manual: N/A

Field Manual: 3-11.4

Individual Protection Masks



Joint Service Aircrew Mask (JSAM)

NSN: N/A

Part Number: N/A

LIN: N/A

Class of Supply: N/A



Description: The JSAM is an aircrew mask that provides continuous head-eye-respiratory, Chemical Biological (CB) protection in fixed and rotary wing aircraft. JSAM provides donning and doffing capability while in flight. Compatible with new and existing life support equipment, JSAM also incorporates positive breathing for Gz acceleration in high performance aircraft. JSAM is intended to replace several existing aircrew masks in the DoD inventory. Item is in development.

Use: Provides all aircrews with individual head-eye-respiratory protection against CB warfare agents, radiological particles, as well as protection against the fatigue caused by high rates of Gz acceleration and possible gravity induced loss of consciousness.

Technical Manual: N/A

Field Manual: N/A

Individual Protection Overgarments



Alternative Footwear Solutions (AFS) Lightweight Overboot (ALO)

NSN:

8430015536290 - Extra Small
8430015365413 - Small
8430015365415 - Medium
8430015365416 - Large
8430015365419 - Extra Large
8430015536283 - Extra Extra Large

Part Number: N/A

LIN: P38389

Class of Supply: 2



Description: The AFS is a common over-boot system that meets all Service requirements. The boot includes all layers required for Chemical Biological (CB) protection and durability. The AFS is compatible with cold weather and other footwear that may be worn as supplemental over-layers for special missions and environments. AFS provides up to 45 days of wear, with improved traction over the Black Vinyl Over-boot/Green Vinyl Over-boot and can be donned/doffed while wearing CB gloves, mask and over-garment.

Use: Alternative Footwear Solutions overboot is worn over standard combat/duty boots providing CB protection when worn as part of the ensemble.

Technical Manual: 10-8415-220-10

Field Manual: 3-11.4

Individual Protection Overgarments



Green/ Black Vinyl Overboots (GVO/BVO)

NSN:		Part Number: A-A-59520	
Green:	Size	Black:	Size
8430-01-048-6305,	3	8430-01-317-3374	3
8430-01-048-6306,	4	8430-01-317-3375	4
8430-01-049-0878,	5	8430-01-317-3376	5
8430-01-049-0879,	6	8430-01-317-3377	6
8430-01-049-0880,	7	8430-01-317-3378	7
8430-01-049-0881,	8	8430-01-317-3379	8
8430-01-049-0882,	9	8430-01-317-3380	9
8430-01-049-0883,	10	8430-01-317-3381	10
8430-01-049-0884,	11	8430-01-317-3382	11
8430-01-049-0885,	12	8430-01-317-3383	12
8430-01-049-0886,	13	8430-01-317-3384	13
8430-01-049-0887,	14	8430-01-317-3385	14

LIN: N39848

Class of Supply: 2



Description: The GVO is a green vinyl overboot with elastic fasteners. The BVO is very similar except it is black with enlarged tabs on each elastic fastener. NOTE: GREEN OVERBOOTS ARE OBSOLETE – NSNs are included for previous stockpiles.

Use: The GVO/BVO are fitted vinyl overboots that can be used by the wearer for protection against nuclear, biological, and chemical agents, or foul weather. The impermeable GVO/BVO provides protection against all known chemical agents for up to 14 days and should be replaced within 12 hours of contamination by a liquid agent (extendible by commanders to 24 hours with increased risk to wearer). The GVO/BVO may be decontaminated to extend their usefulness.

Technical Manual: 10-8415-220-10

Field Manual: 3-11.4

Individual Protection Overgarments



Joint Service Lightweight Integrated Suit Technology (JSLIST) Coats

NSN:

Woodland

8415-01-444-1163 (S/XShort)
8415-01-444-1169 (S/Short)
8415-01-444-1200 (M/Short)
8415-01-444-1238 (M/Reg)
8415-01-444-1249 (M/Long)
8415-01-444-1265 (L/Reg)
8415-01-444-1270 (L/Long)
8415-01-509-8296 (XL/Reg)
8415-01-505-1241 (XL/Long)
8415-01-505-1245 (2XL/Long)
8415-01-506-7546 (3XL/Long)



Part Number:

Desert

8415-01-444-5902 (S/XShort)
8415-01-444-5905 (S/Short)
8415-01-444-5913 (M/Short)
8415-01-444-5926 (M/Reg)
8415-01-444-6116 (M/Long)
8415-01-444-6138 (L/Reg)
8415-01-444-6131 (L/Long)
8415-01-509-8314 (XL/Reg)
8415-01-505-1616 (XL/Long)
8415-01-505-1622 (2XL/Long)
8415-01-506-7710 (3XL/Long)



LIN: J26086 (Woodland)
J26018 (Desert)

Class of Supply: 2

Description: The JSLIST is made of an outer shell that is 50% nylon and 50% cotton poplin ripstop material with a durable water repellent finish. The liner layer consists of a non-woven front, laminated to activated carbon spheres and bonded to a tricot knit back that absorbs chemical agents. The garment is two-piece (coat and trousers) and weighs between 5 to 7 pounds.

Use: The JSLIST ensemble provides protection against chemical biological warfare agents. The JSLIST garment is worn so that the trouser legs are fastened over the tops of the protective boots, the sleeve cuffs are secured and fastened over the gloves, and the hood is tied and secured around the edge of the mask.

Technical Manual: 10-8415-220-10

Field Use: 3-11.4

Individual Protection Overgarments



Joint Service Lightweight Integrated Suit Technology (JSLIST) Trousers

NSN:

Woodland

8415-01-444-1435 (S/XShort)
8415-01-444-1439 (S/Short)
8415-01-444-1613 (M/Short)
8415-01-444-2310 (M/Reg)
8415-01-444-2308 (M/Long)
8415-01-444-2325 (L/Reg)
8415-01-444-2338 (L/Long)
8415-01-509-8265 (XL/Reg)
8415-01-505-1274 (XL/Long)
8415-01-505-1277 (2XL/Long)
8415-01-506-7698 (3XL/Long)



Part Number:

Desert

8415-01-444-5417 (S/XShort)
8415-01-444-5504 (S/Short)
8415-01-444-5506 (M/Short)
8415-01-444-5893 (M/Reg)
8415-01-444-5892 (M/Long)
8415-01-444-5898 (L/Reg)
8415-01-444-5900 (L/Long)
8415-01-509-8269 (XL/Reg)
8415-01-505-1567 (XL/Long)
8415-01-505-1591 (2XL/Long)
8415-01-506-7713 (3XL/Long)



LIN: J38826 (Woodland)
J38724 (Desert)

Class of Supply: 2

Description: The JSLIST is made of an outer shell that is 50% nylon and 50% cotton poplin ripstop material with a durable water repellent finish. The liner layer consists of a non-woven front, laminated to activated carbon spheres and bonded to a tricot knit back that absorbs chemical agents. The garment is two-piece (coat and trousers) and weighs between 5 to 7 pounds.

Use: The JSLIST ensemble provides protection against Chemical Biological warfare agents. The JSLIST garment is worn so that the trouser legs are fastened over the tops of the protective boots, the sleeve cuffs are secured and fastened over the gloves, and the hood is tied and secured around the edge of the mask.

Technical Manual: 10-8415-220-10
USMC: 8415-10/3

Field Use: 3-11.4

Individual Protection Overgarments



Joint Block 1 Glove Upgrade Program (JB1GU)

NSN:

- 8415-20-001-3661 (Glove Set - Small)
- 8415-20-001-4453 (Glove Shell - Small)
- 8415-20-001-3657 (Glove Insert - Small)
- 8415-20-001-3662 (Glove Set – Medium)
- 8415-20-001-3653 (Glove Shell - Medium)
- 8415-20-001-3658 (Glove Insert – Medium)
- 8415-20-001-3663 (Glove Set - Large)
- 8415-20-001-3654 (Glove Shell - Large)
- 8415-20-001-3659 (Glove Insert - Large)
- 8415-20-001-3664 (Glove Set – X-Large)
- 8415-20-001-3655 (Glove Shell – X-Large)
- 8415-20-001-3660 (Glove Insert – X-Large)

Part Number: N/A

LIN: N/A

Class of Supply: 2



Description: The JB1GU is a system that will achieve most of the requirements outlined in the JSLIST Operational Requirement Document (ORD) and will serve as an evolutionary approach to the JB2GU. It may be utilized as both a liner intended to be worn under existing U.S. military gloves, a glove that will be worn in place of existing hand wear or a combination of a new glove shell and liner that together provide both chemical agent protection and the functionality of the glove(s) it replaces.

Use: Today's Warfighter uses the JB1GU glove along with the JSLIST ensemble, footwear and a field protective mask to create a state-of-the-art Chemical Biological protective ensemble that provides complete percutaneous and respiratory protection against chemical and biological warfare agents.

Technical Manual: 10-8415-220-10

Field Manual: 3-11.4

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Individual Protection Overgarments



JSLIST Block 2 Glove Upgrade Program Non-Flame Resistant (JB2GU nFR)

NSN:

8415-21-921-2165 (Small)
8415-21-921-2163 (Small-Narrow)
8415-21-921-2167 (Medium)
8415-21-921-2166 (Medium-Narrow)
8415-21-921-2170 (Large)
8415-21-921-2169 (Large-Narrow)
8415-21-921-2172 (X-Large)
8415-21-921-2171 (X-Large-Narrow)

Part Number: N/A

LIN: N/A

Class of Supply: 2



Description: The JB2GU nFR development is part of the JSLIST program. The JB2GU nFR Gloves are comprised of a molded outer glove made from compounded butyl rubber and a removable inner liner made of polyester-rayon blend for perspiration absorption. It will provide enhanced tactility, dexterity, and comfort over existing systems and can be worn in all climates.

Use: The JB2GU is a hand wear component of the JSLIST ensemble that will provide 16 hours of chemical/biological (CB) protection from liquid, vapor and aerosol battlefield concentrations of all known CB Warfare agents for up to 30 days of wear. Currently the fielded 7 mil and 25 mil gloves are considered suitable substitutes as appropriate. This item is in research and development.

Technical Manual: USMC: 8415-10/3
10-8415-220-10

Field Manual: 3-11.4



Individual Protection Overgarments

Gloves, Chemical Protective 7 MIL, 14 MIL and 25 MIL

NSN: N/A

Part Number (FEDLOG): N/A

	7 MIL	14 MIL	25 MIL
X-Small			8415-01-144-1862
Small	8415-01-138-2501	8415-01-138-2497	8415-01-033-3517
Medium	8415-01-138-2502	8415-01-138-2498	8415-01-033-3518
Large	8415-01-138-2503	8415-01-138-2499	8415-01-033-3519
X-large	8415-01-138-2504	8415-01-138-2500	8415-01-033-3220

LIN: N/A

Class of Supply: 2



Description: Two-piece hand protection consisting of rubber gloves for chemical protection and separate inner cotton liners for perspiration absorption. Liners can be worn on either hand; gloves are form fitted for either the left or right hand. The 25-Mil Glove is for individuals who perform close combat tasks and other types of heavy labor. The 14-Mil Glove is used by individuals such as vehicle mechanics and weapon crews who require tactility and sensitivity and will not expose the gloves to harsh treatment. The 7-Mil Glove is used by individuals such as medical, aviators, teletypists, and electronic repair personnel who require a higher degree of tactility and sensitivity and will not expose the gloves to harsh treatment.

Use: The Warfighters use the chemical protective gloves along with the JSLIST and JPACE ensembles, footwear and masks to create a state-of-the-art CBRN protective ensemble that provides complete percutaneous and respiratory protection against CBRN agents.

Technical Manual: 10-8415-220-10

Field Manual: 3-11.4

Individual Protection Overgarments



Multipurpose Rain/Snow/CB Overboot (MULO)

NSN:	Part Number: N/A
8430-01-464-9453 - Size 3	2-1-2039-3
8430-01-464-9458 - Size 4	2-1-2039-4
8430-01-464-9459 - Size 5	2-1-2039-5
8430-01-464-9461 - Size 6	2-1-2039-6
8430-01-464-9462 - Size 7	2-1-2039-7
8430-01-464-9464 - Size 8	2-1-2039-8
8430-01-464-9474 - Size 9	2-1-2039-9
8430-01-464-9475 - Size 10	2-1-2039-10
8430-01-464-9477 - Size 11	2-1-2039-11
8430-01-464-9480 - Size 12	2-1-2039-12
8430-01-464-9479 - Size 13	2-1-2039-13
8430-01-464-9484 - Size 14	2-1-2039-14

LIN: N/A

Class Of Supply: 2



Description: The MULO is the current CBRN protective footwear solution for the JSLIST ensemble. With improved protection and fit, to include the new Infantry Combat Boot, the MULO will replace current inventories of the Black and Green Vinyl Overboot (BVO/GVO). It will provide protection in water, snow, mud, and various Petroleum/Oil/Liquid (POL) environments. It also provides the Warfighter with a flame resistant overboot.

Use: Today's Warfighter uses the MULO along with the JSLIST ensemble, gloves and a field protective mask to create a state-of-the-art CBRN protective ensemble that provides complete percutaneous and respiratory protection against chemical and biological warfare agents.

Technical Manual: 10-8415-220-10

Field Manual: 3-11.4

Individual Protection Overgarments



Multipurpose Protective Sock (MPS) Program

NSN: N/A

Part Number: N/A

LIN: N/A

Class of Supply: 2



Description: The MPS is a part of the JSLIST ensemble. It will fulfill the JSLIST requirement for a launderable CBRN protective sock for wear under service footwear. MPS may also be a key component of future JSLIST Alternative Footwear Solutions (AFS), to include investigation of a CBRN resistant combat boot that, when worn in conjunction with a protective sock, could provide the required CBRN protection for the Warfighter.

Use: Today's Warfighter uses the MPS in conjunction with an overboot and along with the JSLIST ensemble, gloves and a field protective mask creates a state-of-the-art CBRN protective ensemble that provides complete percutaneous and respiratory protection against chemical and biological warfare agents.

Technical Manual: 10-8415-220-10

Field Manual: 3-11.4

Individual Protection Protective Suits



Improved Toxicological Agent Protective (ITAP) Ensemble

NSNs:

8415-01-463-7151 (S)
8415-01-463-7150 (M)
8415-01-463-5829 (L)
8415-01-463-5830 (XL)

Part Numbers :

C5P9D0400-1
C5P9D0400-2
C5P9D0400-3
C5P9D0400-4

LIN: N/A

Class of Supply: 2



Description: The one-piece suit is composed of a self-contained breathing apparatus, a personal ice cooling system, and a compact air supply system when a filtered mode is required. One major improvement is the one-piece garment with integral boots, front fastener closure, and glove assembly. It has a splash-proof zipper with closure in the upper portion of the body, a splash hood, and an over-vest to cover the breathing system. The suit is capable of being decontaminated for a minimum of 5-re-uses with a limit of 2-hours per use after a vapor and particulate contamination (reduce to 1 hour at Immediately Dangerous to Life and Health IDLH levels). The ITAP suit will be decontaminated and held for disposal after liquid contamination.

Use: The ITAP will be employed in IDLH toxic chemical environments (up to 1 hour) emergency life saving response, incident response, routine chemical activity operations and initial entry monitoring.

Technical Manual: 10-8415-233-12&P

Field Manual: 3-11.4

Individual Protection Protective Suits



Joint Protective Aircrew Ensemble (JPACE)

NSN: N/A

Part Number: N/A

LIN: N/A

Class of Supply: N/A



Description: The JPACE Chemical Protective Coverall (CPC) provides the functionality of a flight suit (closures, pockets, flame resistance) while also providing CB protection. The JPACE CPC includes a pass-through port to accommodate the U.S. Army Microclimate Cooling Garment (MCG) hose.

Use: JPACE CPC is designed to be compatible with all current and developmental CB protective equipment, as well as current man-mounted Aviation Life Support Equipment/Systems (ALSE/ALSS) with the exception of anti-exposure assemblies. In an uncontaminated environment, the JPACE CPC provides 480 wear hours or 120 days of total service life (amount of time elapsed from when the factory vacuum sealed bag was first opened), whichever occurs first. An uncontaminated JPACE CPC can be laundered up to (4) four times within its service life and continue to provide 16 hour percutaneous protection in a contaminated environment.

Technical Manual: 10-8415-234-10
13-1-6.10-1 (NAVAIR)

Field Manual: 3-11.4

Individual Protection Protective Suits



Self-Contained Toxic Environment Protective Outfit (STEPO)

NSNs:	Part Number:
8415-01-452-6772 (S)	8-1-491-1
8415-01-452-8631 (M)	8-1-491-2
8415-01-454-1627 (L)	8-1-491-3
8415-01-452-8629 (XL)	8-1-491-4

LIN: S58144

Class of Supply: 2



Description: The STEPO program developed a totally encapsulating protective ensemble for protection against Chemical Biological agents, missile/rocket fuels, Petroleum, Oils and Lubricants (POL), and industrial chemicals. The ensemble incorporates a NIOSH approved self-contained breathing apparatus (with a tether/emergency breathing apparatus option); a battery powered cooling system and a hands-free communications system. STEPO will be used in extremely hazardous areas where contact with chemical agents, POLs, missile fuels, and/or toxic industrial chemicals can occur. The system will be worn by Explosive Ordnance Disposal (EOD), Technical Escort Units, Ammunition handlers, and Chemical Surety Activity personnel engaged in special operations in Immediately Dangerous to Life and Health (IDLH) environments. **Several warnings and hazards should be reviewed as noted in the technical manual.**

Use: The STEPO provides personnel protection against expected chemical hazards. The STEPO can be operated in two separate modes. The encapsulating protective suit can be worn with the rebreather and ice vest or with the emergency breathing apparatus and tethered air line. Both modes provide the operator with a source of breathing air and a body cooling capability.

Technical Manual: 10-8415-231-12&P **Field Manual:** 3-11.4

Individual Protection Protective Suits



Suit Contamination Avoidance Liquid Protection (SCALP) Parka and Trousers Set

NSNs:

Green

8415-01-364-3320 (S)

8415-01-364-3321 (M/L)

8415-01-364-3322 (XL/XXL)

Part Number:

Tan

8415-01-333-0987 (S)

8415-01-333-0988 (M/L)

8415-01-333-0989 (XL/XXL)

Footwear Covers (Green)

Small 8415-01-364-3458

Medium 8415-01-364-3459

Large 8415-01-364-3460

Footwear Covers (Tan)

8415-01-333-0990

8415-01-333-0991

8415-01-333-0992

LIN: C20369 C80245

Class of Supply: 2



Figure 1-3. Contamination avoidance and liquid protective suit.

Description: This impermeable suit consists of a hooded poncho, trousers, and two footwear covers. The footwear cover soles are embossed for enhanced durability and slip resistance. The SCALP, worn over chemical protective clothing, provides protection from gross liquid contamination by chemical agents.

Use: The suit is primarily used by Armor and Explosive Ordnance Disposal (EOD) personnel and personnel in collective protection who may, by necessity, be forced to leave collective protection to perform some vital function. A secondary use of SCALP is to protect decontamination personnel from becoming contaminated during decontamination operations. The SCALP is not intended to be decontaminated, re-impregnated, or laundered, and should be properly discarded after exposure to chemical agents

Tech Manuals: 10-8415-209-10
8415-10/2

Field Manual: 3-11.4

Individual Protection Testers



M14 Mask Leakage Tester

NSN: 6665-00-911-3552

Part Number: 136-42-750-0

LIN: W03346

Class of Supply: 7



Description: The M14 protective mask leakage tester is an electrical-mechanical testing unit housed in a steel cabinet. Different types of test heads and clamps are provided to fit the different mask configurations to be tested

Use: To test chemical-biological masks for leakage during repair operation.

Technical Manual: 43-0001-26-1

Field Manual: N/A

Individual Protection Testers



M41 Protection Assessment Test System (PATS)

NSN: 4240-01-365-8241

Part Number: 5-1-3326

LIN: T62350

Class of Supply: 7



Description: The M41 PATS is a compact lightweight device designed to check the fit and protection factor of protective masks. It is approximately 200 cubic inches in size, weighs 4 pounds, and is based on a Condensation Nucleus Counter that continuously samples and counts naturally occurring particles in the air. An M41 PATS counts individual particles and compares the concentration of these particles inside and outside the mask and derives a Protection Factor (PF).

Use: The M41 PATS provides a means to verify that a service member's protective mask fits properly and complies with a minimum PF of 1667 for Soldiers, Sailors and Airmen and a minimum PF of 2000 for United States Marines.

Technical Manual: 3-4240-349-12&P
Marine Corps TM 10224A-14&P
Air Force TO 14P4-15-11

Field Manual: 3-11.4

Individual Protection Testers



Tester, Leakage, Protective Mask: M46 (Joint Service Mask Leakage Tester [JSMLT])

NSN: 6665-01-506-9002

Part Number: 03001A0001

LIN: N/A

Class of Supply: N/A



Description: The JSMLT is a portable device designed to test the serviceability and fit of protective masks. The JSMLT provides leak and serviceability testing of designated CBRN Defense masks and components without requiring the operator to wear the mask. The JSMLT will provide quantitative fit testing while an individual is wearing his/her assigned protective mask. The JSMLT can be set up in minutes and is completely self-contained in a rugged JSMLT Case. The JSMLT includes a universal clamping assembly, inflatable mask seal, and clamping adapters which allow it to be used to test multiple types of protective masks. The lightweight plastic head form is available in different sizes and can be quickly installed to accommodate a wide range of protective mask sizes. The JSMLT utilizes solid-state electronic circuitry with simple menu-driven touch pad controls and an alphanumeric display.

Use: The JSMLT tests a variety of protective masks for leakage; masks may be tested with or without an attached hose. When a failure is detected, the JSMLT provides the operator with a probe option to help isolate the location of the leak(s). In the probe mode, aerosol is directed at various areas and parts of the mask to identify which area or component of the mask is leaking.

Technical Manual: ATI Operator's Manual v2.0 **Field Manual:** 3-11.4
www.atitest.com

Individual Protection Products



Undershirt, Chemical Protective

NSNs:

8415-01-363-8692 (32 inch);
8415-01-363-8693 (34 inch);
8415-01-363-8694 (36 inch);
8415-01-363-8695 (38 inch);
8415-01-363-8696 (40 inch);
8415-01-363-8697 (42 inch);
8415-01-363-8698 (44 inch);
8415-01-363-8699 (46 inch);
8415-01-363-8700 (48 inch);
8415-01-488-5715 (50 inch);
8415-01-488-5717 (52 inch);
8415-01-488-5716 (54 inch)

Part Number: CN/PD 02-01

LIN: N/A

Class of Supply: 2



Description: The CPU is a two piece undergarment consisting of a formfitting undershirt and drawers. The CPU is not removed from its bag until it is needed for use. When removed, its protective qualities last for a minimum of 15 days. The CPU can be laundered once for personal hygiene purposes during its 15 day use.

Use: It provides protection from Chemical Biological agents (solid, liquid, and vapor) for up to a 12-hour period. The CPU also protects against radioactive alpha and beta particles. When worn under a duty uniform, the CPU has also shown enhanced flash fire protection capabilities. The CPU is generally used by special operations forces, explosive ordnance disposal, technical escort, and depot personnel.

Technical Manual: 10-8415-209-10

Field Manual: 3-11.4

Individual Protection Products



Drawers, Chemical Protective Undergarment (CPU)

NSNs:

8415-01-363-8683 (waist 26 inch);
8415-01-363-8684 (28 inch);
8415-01-363-8685 (30 inch);
8415-01-363-8686 (32 inch);
8415-01-363-8687 (34 inch);
8415-01-363-8688 (36 inch);
8415-01-363-8689 (38 inch);
8415-01-363-8690 (40 inch);
8415-01-363-8691 (42 inch);
8415-01-488-5719 (44 inch);
8415-01-488-5720 (48 inch);
8415-01-488-5722 (46 inch)

Part Number: CN/PD 02-01

LIN: N/A

Class of Supply: 2



Description: The CPU is a two piece undergarment consisting of a formfitting undershirt and drawers. The CPU is not removed from its bag until it is needed for use. When removed, its protective qualities last for a minimum of 15 days. The CPU can be laundered once for personal hygiene purposes during its 15 day use.

Use: It provides protection from Chemical Biological agents (solid, liquid, and vapor) for up to a 12-hour period. The CPU also protects against radioactive alpha and beta particles. When worn under a duty uniform, the CPU has also shown enhanced flash fire protection capabilities. The CPU is generally used by special operations forces, explosive ordnance disposal, technical escort, and depot personnel.

Technical Manual: 10-8415-209-10

Field Manual: 3-11.4

Individual Protection Products



Socks, Chemical Protective

NSNs:

8415-01-509-2875 (Extra Small);
8415-01-509-2877 (Small);
8415-01-509-2879 (Medium);
8415-01-509-2882 (Large);
8415-01-509-2883 (Extra Large);

Part Number: CN/PD 02-01

LIN: N/A

Class of Supply: 2



Description: The Chemical Protective Sock (CPS) is part of the Chemical Protective Undergarments (CPU) outfit. The CPS is not removed from its bag until it is needed for use. When removed, its protective qualities last for a minimum of 15 days. The CPS can be laundered once for personal hygiene purposes during its 15 day use.

Use: It provides protection from Chemical Biological agents (solid, liquid, and vapor) for up to a 12-hour period. The CPS also protects against radioactive alpha and beta particles. When worn under a duty uniform, the CPS has also shown enhanced flash fire protection capabilities. The CPS is generally used by special operations forces, explosive ordnance disposal, technical escort, and depot personnel.

Technical Manual: N/A

Field Manual: 3-11.4



Individual Protection Products

Undershirt – Modified Undershirt Chemical Protective Undergarment (mCPU)

NSNs:

Part Number: CN/PD02-01

8415-01-497-7963 (Size 32)	8415-01-497-7977 (Size 44)
8415-01-497-7966 (Size 34)	8415-01-497-7978 (Size 46)
8415-01-497-7967 (Size 36)	8415-01-497-7980 (Size 48)
8415-01-497-7969 (Size 38)	8415-01-497-7982 (Size 50)
8415-01-497-7975 (Size 40)	8415-01-497-7983 (Size 52)
8415-01-497-7976 (Size 42)	8415-01-497-7984 (Size 54)

LIN: N/A

Class of Supply: 2



Description: The Modified Undershirt Chemical Protective Undergarment (mCPU), also known as Joint Protective Aircrew Ensemble-Interim (JPACE-I). The mCPU consists of full length sleeves with hook and file closures and a slide fastener front closure with inside protective flap. The collar converts to a turtleneck when the slide fastener is closed. The underarms are lined with shields. Chemical resistant, microclimate pass-thru.

Use: It provides protection from Chemical Biological agents (solid, liquid, and vapor) for up to a 12-hour period. The mCPU also protects against radioactive alpha and beta particles. When worn under a duty uniform, the mCPU has also shown enhanced flash fire protection capabilities.

Technical Manual: N/A

Field Manual: 3-11.4

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INFORMATION SYSTEMS



Information Systems

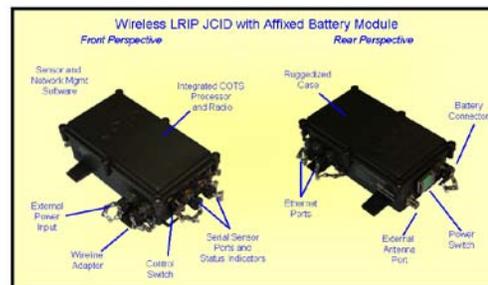
Joint Warning and Reporting Network Component Interface Device (JCID) (Wired and Wireless)

NSN: N/A

Part Number: N/A

LIN: N/A

Class of Supply: N/A



Description: The JCID is the hardware component of the Joint Warning and Reporting Network (JWARN) System. It provides the physical connection for sensors as well as the capability to manage and configure the sensor network.

Use: The JCID provides the physical connectivity between sensors and the command and control host systems. The device wired version is scheduled to be fielded in Fiscal Year 2009 and the device wireless version is in Low Rate Initial Production.

Technical Manual: N/A

Field Manual: 3-11.14



Information Systems

Joint Effects Model (JEM)

NSN: N/A

Part Number: N/A

LIN: N/A

Class of Supply: N/A



Description: The JEM is a web-based software tool that supplies the Department of Defense (DoD) with an effective model to simulate the effects of CBRN weapon incidents. JEM is capable of providing all Warfighters with the ability to accurately model and predict the time-phased impact of CBRN and Toxic Industrial Chemical/Material events and effects. JEM supports planning to mitigate the effects of Weapons of Mass Destruction and to provide rapid estimates of hazards and effects integrated into the Common Operational Picture.

Use: JEM provides the ability for Warfighters from all services to display a Common Operational Picture (COP) and will operate in an integrated fashion with operational and tactical C4ISR systems, and in a stand-alone mode. JEM will interface and communicate with the Joint Warning and Reporting Network (JWARN) and the Joint Operational Effects Federation (JOEF) (weather systems and intelligence systems). JEM will provide the Warfighter the best and most mature technology available to address a wide spectrum of threats to include: joint training, vulnerability analysis, and incident response.

Technical Manual: N/A

Field Manual: 3-11.14



Information Systems

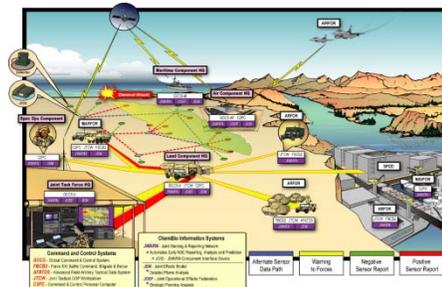
Joint Warning and Reporting Network (JWARN)

NSN: N/A

Part Number: N/A

LIN: N/A

Class of Supply: N/A



Description: The JWARN provides a comprehensive analysis and response capability to minimize the effects of hostile CBRN attacks as well as accidents and incidents. The system will provide operational capability to employ CBRN warning technology which will collect, analyze, identify, locate, report and disseminate CBRN warnings. JWARN will be compatible and integrated with Joint Service Common Operating Environment (COE) based on operational and non-COE tactical Command, Control, Computers, and Communications, Intelligence, Surveillance, and Recognizance (C4ISR) systems.

Use: JWARN will be located in Command and Control Centers at the appropriate level, enabling immediate and integrated response to threats of contamination by weapons of mass destruction through rapid warning and dissemination of CBRN information. This employment will transfer data automatically from and to the actual detectors and sensors and will provide commanders with analyzed data to support operational decision-making in a CBRN environment.

Technical Manual: N/A

Field Manual: 3-11.14

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MEDICAL SYSTEMS PRODUCTS



Medical Systems

Atropine Auto Injector (Atropen) 0.7ML

NSN: 6505-00-926-9083

National Drug Code: 11704-101-01

LIN: N/A

Class of Supply: 8



Description: By blocking the action of acetylcholine at muscarinic receptors, atropine also serves as an antidote for poisoning by organophosphate insecticides and nerve gases, such as Tabun (GA), Sarin (GB), Soman (GD), and VX. Troops who are likely to be attacked with chemical weapons often carry autoinjectors with atropine and obidoxime which can be quickly injected into the thigh. Atropine is often used in conjunction with Pralidoxime chloride. Packaged 30 auto-injectors per box.

Use: Antidote for organophosphorous (nerve agent/insecticide) poisoning. Used by the Army, Marines, Navy and Air Force.

Technical Manual: N/A

Field Manual: N/A

Technical Bulletins TB-MED-1 and TB-MED-296 are applicable.



Medical Systems

Chemical Protective Sleeping Bag, Patient Wrap and Litter

NSN: 6530-01-383-6260

National Drug Code: N/A

LIN: N/A

Class of Supply: 8



Blower with Filter and Hose Connected



Insertion of Hose into Wrap

Description: A lightweight, disposable, sleeping bag type device (98"x42"). This item is designed for use in protecting the uncontaminated or decontaminated litter patient from chemical warfare agents for a minimum up to six hours. It is fabricated of a carbon impregnated impermeable top sheet and impermeable bottom sheet. This item includes two zipper closures to access the patient, transparent window to observe patient, medical card holder, port to provide a protective entry way for intravenous tubing, sleeves attached along each side with hand poles, and other related features.

Use: The patient wrap and litter is used to protect the uncontaminated or decontaminated litter patient from chemical warfare agents. It includes a lightweight blower (4240-01-442-8415) that provides a considerable reduction in the danger of heat stress on the casualty, and an increase in the operational effectiveness of the wrap while in hot climates. Poles may be inserted for carrying patient.

Technical Manual: N/A

Field Manual: N/A

Medical Systems



Ciprofloxacin 500 MG Tab 100s BTL+

NSN: 6505-01-333-4154

National Drug Code: N/A

LIN: N/A

Class of Supply: 8



Description: Ciprofloxacin is an antibiotic used to treat or prevent certain infections caused by bacteria. Ciprofloxacin is also frequently used to treat urinary infections caused by bacteria such as *E. coli*. It is effective in treating infectious diarrheas caused by *E. coli*, *Campylobacter jejuni*, and *Shigella* bacteria. The FDA approved ciprofloxacin in October 1987. CIPRO was a patent item of Bayer, but now is considered a generic drug.

Use: This medication is used to treat a variety of bacterial infections. Ciprofloxacin is also used to treat or prevent anthrax in people who may have been exposed to anthrax germs in the air. It is used to treat infections of the skin, lungs, airways, bones, and joints caused by susceptible bacteria. Ciprofloxacin belongs to a class of drugs called quinolone antibiotics. It works by stopping the growth of bacteria. This antibiotic only treats bacterial infections.

Technical Manual: N/A

Field Manual: N/A

Medical Systems



Cyanide Antidote Treatment Kit W/AMYL Nitrate Syringe Needles 22S

NSN: 6505-01-143-4641

National Drug Code: 11098-507-01

LIN: N/A

Class of Supply: 8



Description: The cyanide antidote kit first uses a small inhaled dose of amyl nitrite followed by intravenous sodium nitrite. This converts a portion of the hemoglobin's iron from ferrous iron to ferric iron, converting the hemoglobin into methaemoglobin. Cyanide is more strongly drawn to methaemoglobin than to the cytochrome oxidase of the cells, effectively pulling the cyanide off the cells and onto the methaemoglobin. Once bound with the cyanide, the Methaemoglobin becomes cyanmethaemoglobin. The next part of the cyanide antidote kit is sodium thiosulfate, which is administered intravenously. The sodium thiosulfate and cyanmethaemoglobin become thiocyanate, releasing the hemoglobin, and the thiocyanate is excreted by the kidneys.

Use: For use in treatment of cyanide poisoning.

Notes: The liquid is flammable. An urgent product recall was posted 08/05/2008: Akorn's Cyanide Antidote Kit (6505-01-143-4641) incorporates a BD 60 ml syringe as one of several components of this kit. The unit package seal integrity (and resulting product sterility) of this 60 ml syringe can be adversely affected when exposed to low atmospheric pressure experienced at high altitudes (e.g., during product shipping). All other components in the kit remain unaffected by this recall, and are considered to be acceptable for use. All lot numbers beginning with 5, 6, and 7 are affected, as well as those lot numbers beginning with 8. Respective lot numbers are imprinted at one end of each syringe pouch.

Technical Manual: TB-ED-1
TB-MED-296

Field Manual: N/A



Medical Systems

Doxycycline Hyclate Tablets 100 MG, 500s +

NSN: 6505-01-153-4335

National Drug Code: 061717

LIN: N/A

Class of Supply: 8



Description: Doxycycline Hyclate is used to treat certain bacterial infections. It may be used in combination with other medicines to treat acne or certain amoeba infections. It may be used to prevent certain types of malaria in travelers who will be visiting malaria-infected areas for less than 4 months, and may also be used to prevent or slow the progression of anthrax after exposure. Doxycycline Hyclate is a tetracycline antibiotic. It works by slowing the growth of bacteria. Slowing the bacteria's growth allows the body's immune system to destroy the bacteria.

Use: Doxycycline Hyclate is used to treat many kinds of infections, like dental, skin, respiratory, and urinary tract infections. It also treats acne, Lyme disease, malaria, and certain sexually transmitted infections.

Notes: Do not use Doxycycline Hyclate if you are allergic to any ingredient in Doxycycline Hyclate or to another tetracycline (e.g., minocycline), taking acitretin, isotretinoin, or a penicillin (e.g., amoxicillin), or if you have recently received or will be receiving a live oral typhoid vaccine.

Technical Manual: N/A

Field Manual: N/A

Medical Systems



Pralidoxime Chloride Autoinjector

NSN: 6505-01-125-3248

National Drug Code: 11704-620-01

LIN: N/A

Class of Supply: 8



Description: Pralidoxime Chloride Injection (auto-injector) provides pralidoxime chloride in a sterile solution for intramuscular injection in nerve agent poisoning. Each prefilled auto-injector provides a dose of the antidote, pralidoxime chloride in a self-contained unit, specially designed for automatic self- or buddy- administration by military personnel. Pralidoxime in the auto-injector may also be administered by qualified civilian emergency responders who have had adequate training in the on-site recognition and treatment of nerve agent intoxication in the event of an accidental release of nerve agent. The recommended procedure is to inject the contents of the auto-injector into the muscles of an outer thigh.

Use: This is an antidote for organophosphorous (nerve agent/insecticide) poisoning. Issued quantity is 30 auto-injectors per box.

Notes: Pralidoxime chloride is a cholinesterase reactivator. Pralidoxime is not effective in the treatment of poisoning due to phosphorus, inorganic phosphates or organophosphates not having anticholinesterase activity. Since the pralidoxime chloride auto-injector is indicated for short-term emergency use only, no investigations of its potential for carcinogenesis, mutagenesis, or impairment of fertility have been conducted by the manufacturer, or reported in the literature.

Technical Manual: N/A

Field Manual: N/A

Medical Systems



Pyridostigmine Bromide Tabs USP 30MG I.S. (SNAPP)

NSN: 6505-01-178-7903

National Drug Code: N/A

LIN: N/A

Class of Supply: 8



Description: Pyridostigmine bromide protects against possible nerve gas attacks.

Use: A nerve agent pre-treatment.

Notes: Blister or strip package; ten packages, each package contains 21 tablets packed in a sealed bag; the blister or strip package is contained in a crush proof plastic sleeve; total quantity 210 tablets.

Technical Manual: N/A

Field Manual: N/A



Medical Systems

Skin Exposure Reduction Paste Against Chemical Warfare Agents (SERPACWA)

NSN: 6505-01-483-7162

National Drug Code: N/A

LIN: N/A

Class of Supply: 8



Description: SERPACWA is used by service members in conjunction with Mission-Oriented Protective Posture (MOPP) gear to enhance protection against Chemical Warfare Agents (CWA). SERPACWA acts as a barrier and prevents CWA from contacting the skin. Approved by the FDA for military use only, it is a cream containing chemically non-reactive perfluorinated polymers. It is applied to susceptible areas of the skin before donning MOPP gear. It is not intended for use by itself. SERPACWA will provide additional protection at those locations where the MOPP is susceptible to leakage or separation, including, the waist and groin, wrists, ankles and neck. In conjunction with personal decontaminating materials, the use of SERPACWA will prevent or reduce the toxicity resulting from exposure to chemical warfare agents.

Use: Provides an effective barrier to the penetration of chemical warfare agents when used in conjunction with MOPP gear.

Notes: SERPACWA comes in a 0.84 oz. squeezable pouch. The pouch contains a topical white paste consisting of a 50:50 mixture of polytetrafluoroethylene and perfluroalkypolyether in an olive green soft packet containing 85 gm of SERPACWA; each packet is sufficient for one application. It is not water soluble; store between 20-30 degrees centigrade. It provides 4 hours of protection; each package contains 3 packets.

Technical Manual: N/A

Field Manual: N/A

APPENDIX

- A. Technical Manual Reference
- B. Chemical Doctrine
- C. Master Item List
- D. Obsolete Item Process Flow
- E. Websites

Appendix A - Technical Manual Reference

Manual Number	Change #	Item
EM 0045		WETM EM 0045 NBC EQUIPMENT - MASKS, DETECTORS, RADIAC SETS & RELATED EQUIPMENT DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST (INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS): COMPRESSOR UNIT, RECIPROCATING, POWER DRIVEN, FLAME THROWER, 3 1/2 CFM, AN-M4 (FSN 4310-592-8560) (REPRINTED W/BASIC INCL C1) (THIS ITEM IS INCLUDED ON EM 0065)
TM 3-1040-210-34P		COMPRESSOR UNIT, RECIPROCATING, POWER-DRIVEN, FLAMETHROWER, 3 1/2 CFM, AN-M4 (FSN 1040-592-8560)
TM 3-1040-210-35	2	DISPERSER, RIOT CONTROL AGENT, PORTABLE, M3 (FSN 1040-711-8296)
TM 3-1040-214-12	1	DISPERSER, RIOT CONTROL AGENT, PORTABLE, M3 (FSN 1040-711-8296)
TM 3-1040-214-24P		DISPERSER, RIOT CONTROL AGENT, PORTABLE, M3 (FSN 1040-711-8296)
TM 3-1040-214-34	1	DISPERSER, RIOT CONTROL AGENT, HELICO VEHICLE MOUNTED, M5 (NSN 1040-00-805-3019)
TM 3-1040-220-12&P		DISPERSER, RIOT CONTROL AGENT, H OR VEHICLE MOUNTED, M5 (NSN 1040-00-805-3019)
TM 3-1040-220-34&P		SERVICE KIT, PORTABLE FLAME THROWER-RIOT CONTROL AGENT DISPERSER, M27, (FSN 1040-736-3230)
TM 3-1040-221-12		COMPRESS RECIPROCATING, POWER-DRIVEN, FLAMETHROWER, 3 1/2 CFM, AN-M4C (FSN 1040-078-5431)
TM 3-1040-244-34	2	COMPRESSOR, RECIPROCATING, POWER-DRIVEN, FLAMETHROWER, 3 1/2 CFM, AN-M4B (STEWART-WARNER MODEL 3260101-4 (FSN 1040-848-6075) AND COMPRESSOR, RECIPROCATING, POWER-DRIVEN FLAMETHROWER, 3 1/2 CFM, AN-M4C (STEWART-WARNER MODEL 3260101-6 (1040-078-5431)
TM 3-1040-244-35P	1	TEST SET, FLAME THROWER-RIOT CONTROL AGE DISPERSER, HYDROSTATIC AND VOLUMETRIC, 6,000 PSI, M5
TM 3-1040-251-15	3	MOUNT, SMOKE GENERATOR, M2 AND MOUNT, FOG OIL DRUM, M3
TM 3-1040-255-10	1	

		OPERATORS, ORGANIZATIONAL, AND DIRECT SUPPORT MAINTENANCE MANU (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST): DISPERSER, RIO CONTROL AGENT, PORTABLE: M33A1 (NSN 1040-00-148-9824)
TM 3-1040-262-13&P	1	
TM 3-1040-263-34		COMPRESS RECIPROCATING, POWER DRIVEN, FLAMETHROWER, 3 1/2 CFM, AN-M4D
TM 3-1040-263-34P	2	COMPRESSOR UNIT, RECIPROCATING, POWER-DRIVEN, FLAMETHROWER, 3 1/2 CFM, AN-M4D (FSN 4310-181-5054)
TM 3-1040-268-20&P	1	LAUNCHER, GRENADE, SMOKE: SCREENING, RP, M250 (NSN 1040- 00-000-0138)
TM 3-1040-276-10	1	GENERATOR, SMOKE, MECHANICAL: PULSE JET, (NSN 1040-01-143- 9506)
TM 3-1040-276-23	1	GENERAL SMOKE, MECHANICAL: PULSE JET, M3A4 (NSN 1040-01- 143-9506)
TM 3-1040-276-23P		GENERATOR, SMOKE, MECHANICAL: PULSE JET, M3A4 (NSN 1040- 01-143-9506)
TM 3-1040-279-12&P	4	GENERATOR SET, SMOKE, MECHANICAL: PULSE JET, M157 W/120 GAL FOG (NSN 1040-01-206-0147) (EIC: 5CD) W/80 GAL FOG OIL TANK (1040-01-293-5496) (EIC: 5CE)
TM 3-1040-280-20&P	1	MOUNTING KIT, SMOKE GENERATOR: M284 (NSN 1040-01-249- 0272)
TM 3-1040-281-20&P		MOUNTING KIT, SMOKE GENERATOR: M288 (NSN 1040-01-248-6
TM 3-1040-282-10	1	GENERATOR, SMOKE, MECHANICAL: MOTORIZED F PURPOSE UNIT, M56 (NSN 1040-01-380-1400) (EIC: 5CF)
TM 3-1040-282-20	1	GENERATOR, SMOKE, MECHANICAL: MOTOR DUAL PURPOSE UNIT, M56 (NSN 1040-01-380-1400) (EIC: 5CF)
TM 3-1040-282-23P		GENERATOR, SMOKE, MECHANICAL: MOTORIZED FOR DUAL PURPOSE UNIT, M56 (NSN 1040-01-380-1400) (EIC: 5CF)
TM 3-1040-282-30		GENERATOR, SMOKE, MECHANICAL: MOTORIZED FOR DUAL PURPOSE UNIT, (NSN 1040-01-380-1400) (EIC: 5CF)
TM 3-1040-283-10		GENERATOR SET, SMOKE, MECHANICAL: PULSE JET, M157A2, W/120 GALL FOG OIL TANK (NSN 1040-01-406-7401) (EIC: 5CH)
TM 3-1040-283-20&P		GENERATOR SET, SMOKE, MECHANICAL: PULSE JET, M157A2, W/120 GALLON FOG OIL TANK (NSN 1040-01-406-7401) (EIC: 5CH)
TM 3-1040-284-20&P		MOUNTING KIT, SMOKE GENERATOR, M284A1, NSN 1040-01-379- 8595

TM 3-1040-285-10	2	GENERATOR, SMOKE, MECHANICAL: MECHANIZED SMOKE OBSCURANT SYSTEM (NSN 1040-01-413-8332) (EIC: 5CG)
TM 3-1040-285-20	2	GENERATOR, SMOKE, MECHANICAL: MECHANIZED SMOKE OBSCURANT SYSTEM (NSN 1040-01-413-8332) (EIC: 5CG)
TM 3-1040-285-23P	2	GENERATOR, SMOKE, MECHANICAL: MECHANIZED SMOKE OBSCURANT SYSTEM (NSN 1040-01-413-8332) (EIC: 5CG)
TM 3-1040-285-30	2	GENERATOR, SMOKE, MECHANICAL, MECHANIZED SMOKE OBSCURANT SYSTEM, M58
TM 3-1040-286-12&P	1	LIGHT VEHICLE OBSCURATION SMOKE SYSTEM (LVOSS) CONSISTING OF DISCHARGER, GRENADE, SMOKE, COUNTERMEASURE: LIGHTWEIGHT, M7 (NSN 1040-01-454-1625), INSTALLATION KIT, GRENADE LAUNCHER: SMOKE, LIGHT VEHICLE, 1-M7 DISCHARGER, TURRET OR REAR MOUNTED, M304 (NSN 1055-01-449-1531) INSTALLATION KIT, GRENADE LAUNCHER: SMOKE, LIGHT VEHICLE, 4-M7 DISCHARGERS, ROOF MOUNTED, M305 (NSN 1055-01-449-1530) INSTALLATION KIT, GRENADE LAUNCHER, SMOKE UP-ARMORED, 4-M7 DISCHARGER, ROOF MOUNTED, M310 (NSN 1055-01-451-2285)
TM 3-1040-287-12&P		DISPENSER, RIOT CONTROL AGENT, MID-SIZED, M37, NSN 1040-01- 463-0157
TM 3-1055-456-12	4	LAUNCHER, ROCKET: 66-MM, 4-TUBE, (NSN 1055-00-021-3909)
TM 3-1055-649-12&P	1	INSTALLATION KIT, GRENADE LAUNCHER; ADJUSTABLE, MULTI- PURPOSE, 66MM, TURRET MOUNTED, M315
TM 3-1310-243-10		CARTRIDGE, 40-MM: TACTICAL CS, M651 (NSN 1310-00-849-2083)
TM 3-1310-244-10	4	CARTRIDGE, 40-MM: RIOT CONTROL CS, M674 AND CARTRIDGE, 40-MM: RED SMOKE RS, M675
TM 3-1320-242-10	1	PROJECTILE, 155 MILLIMETER: GB2, M687, (NSN 1320-00-431-6249)
TM 3-1330-203-10		LAUNCHER AND GRENADES, SMOKE: HC AND WP, M176, FSN 1330-930-8945
TM 3-1330-208-10		LAUNCHER AND GRENADES, SMOKE: HC, M226
TM 3-1365-204-12	1	DISPENSER CONTROL AGENT, MANUALLY CARRIED: CR, M36 (NSN 1365-00-283-9046)
TM 3-1370-100-12	1	SIMULATOR, PROJECTILE AIRBURST, LIQUID: M9 (NSN 1370-01- 047-347)
TM 3-1375-201-10		DOCUMENT DESTROYER, EMERGENCY INCENDIARY, (NSN 1375- 00-078-0450)

TM 3-1730-201-25P		BEAM, HOISTING, LIQUID GAS TANK, M1 (FSN 1730-36
TM 3-250		STORAGE, SHIPMENT, HANDLING, AND DISPOSAL OF CHEMICAL AGENTS AND HAZARDOUS CHEMICALS
TM 3-251-BD	3	BATTLEFIELD DAMAGE ASSESSMENT AND REPAIR FOR CHEMICAL DEFENSIVE MATERIEL
TM 3-261	2	HANDLING AND DISPOSAL OF UNWANTED RADIOACTIVE MATERIAL
TM 3-4230-204-12&P		DECONTAMINATING APPARATUS, PO DS2, 1 1/2 QUART, ABC-M11 (NSN 4230-00-720-1618)
TM 3-4230-209-10	2	DECONTAMINATING APPARATUS: POWER DRIVEN, SKID MOUNTED, MULTIPUR NONINTEGRAL 500-GALLON, M12A1 (NSN 4230-00-926-9488)
TM 3-4230-209-20&P		UNIT MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOL LIST DECONTAMINATING APPARATUS: POWER-DRIVEN, SKID-MOUNTED, 500 GALLON, M12A1 (NSN 4230-00-926-9488)
TM 3-4230-209-30&P		INTERMEDIATE DIRECT SUPPORT MAINTENANCE MANUAL INCLUDING REPAIR AND SPECIAL TOOLS LIST FOR DECONTAMINATING APPARATUS: POWER DRI SKID MOUNTED, MONINTEGRAL 500-GALLON, M12A1 (NSN 4230-00-926-94
TM 3-4230-214-12&P		DECONTAMINATING APPARATUS: PORTABLE, LITER, M13 (NSN 4230-01-133-4124) AND DECONTAMINATING APPARATUS PORTABLE, 14 LITER, M13 (PRACTICE) (4230-01-345-5172)
TM 3-4230-216-10	1	DECONTAMINATING KIT, SKIN: M258A1 (NSN 4230-01-101-3984) AND TRAINING AID, SKIN DECONTAMINATING: M58A1 (6910-01-101-1768)
TM 3-4230-218-12&P	1	DECONTAMINATING APPARATUS: PO DRIVEN, PORTABLE, TYPE A/E32U-8 (NSN 4230-01-153-8660)
TM 3-4230-218-30&P		DECONTAMINATING APPARATUS: POWER-DRIVEN PORTABLE, TYPE A/E32U-8 (NSN 4230-01-153-8660)
TM 3-4230-224-10	1	DECONTAMINATION KIT, INDIVIDUAL EQUIPMENT: M28 (NSN 4230-01-206-4252) AND TRAINING AID (NSN 4230-01-207-1911)
TM 3-4230-228-10	5	DECONTAMINATING APPARTUS: POWER-DRIVEN, LIGHTWEIGHT, M17 (NSN 4230-01-251-8702)
TM 3-4230-228-23&P	3	DECONTAMINATING APPARA POWER-DRIVEN, LIGHTWEIGHT, M17 (NSN 4230-01-251-8702) (WITH 1580-GAL WATER TANK), M17A1 NSN 423-01-303-5225 (WITH 3000-GAL WATER TANK), M17A2 NSN 4230-01-346-1778 (WITH 1580-GAL WATER TANK), M17A3 NSN 4230-01-346-3122 (WITH 3000-GAL WATER TANK)
TM 3-4230-229-10	1	DECONTAMINATING KIT, SKIN: M291, (NSN 4230-01-251-8702) {SS010-AA-MMO-1-0; TO 11D1-1-131; TM 4230-10/1}

TM 3-4230-235-10	1	DECONTAMINATION KIT, INDIVIDUAL EQUIPMENT: M295 (NSN 6850-01-357-8456) (EIC: Y67)
TM 3-4230-236-10	1	DECONTAMINATION SYSTEM, SORBENT: M100 (NSN 4230-01-466-9095)
TM 3-4230-237-10		DECONTAMINATING APPARATUS: DIESEL ENGINE-DRIVEN (DED), SKID-MOUNTED, 500-GALLON, M12A1 (NSN 4230-01-502-7224) EIC 5FB
<u>TM 3-4230-238-13&P</u>		<u>JOINT SERVICE TRANSPORTABLE DECONTAMINATION SYSTEM-SMALL SCALE (JSTDS-SS)</u>
TM 3-4240-201-13	1	GAS-PARTICULATE: HOSPITAL, SIX-MAN, 12 CFM, ABC-M7A1 (FSN 4240-203-3999)
TM 3-4240-201-20P	2	TFILTER UNIT, GAS PARTICULATE, M7A1 (FSN 4240-203-3999)
TM 3-4240-201-35P	2	FILTER UNIT, GAS PARTICULATE, M7A1 (FSN 4240-203-3999)
TM 3-4240-212-14&P	3	BREATHING APPARATUS, OXYGEN-GENERATING, M20 (NSN 4240-00-678-52)
TM 3-4240-241-12	3	FILTER UNIT, GAS-PARTICULATE, GED, 300 CFM, ABC-M6A1 AND EMD, 300 CFM,
TM 3-4240-241-20P	1	FILTER UNITS, GAS-PARTICULATE, EMD AND GED, 300 CFM, ABC-M6 (FSN 4240-368-6127) (4240-368-6126) AND ABC-M6A1 (4240-889-2317 (4240-889-2316)
TM 3-4240-241-34P	1	FILTER UNIT, GAS-PARTICULATE, EMD AND GED, 300 CFM, ABC-M6 (FSN 4240-368-6127, 4240-368-6126) AND FILTER UNITS, GAS-PARTICULATE EMD AND GED, 300CFM, ABC-M6A1 (4240-889-2317) (4240-889-2316)
TM 3-4240-241-35		UNIT, GAS-PARTICULATE, GED, 300 CFM, ABC-M6 AND EMD, 500 CFM, A
TM 3-4240-264-12	5	SHELTER SY COLLECTIVE PROTECTION, CHEMICAL-BIOLOGICAL: INFLATABLE, TRAILER-TRANSPORTED, M51 (NSN 4240-00-854-4144)
TM 3-4240-264-20P	3	SYSTEM, COLLECTIVE PROTECTION, CHEMICAL-BIOLOGICAL: INFLATABLE TRAILER-TRANSPORTED, M51 (NSN 4240-00-854-4144)
TM 3-4240-264-34	3	SHELT SYSTEM, COLLECTIVE PROTECTION, CHEMICAL-BIOLOGICAL: INFLATABLE, TRAILER TRANSPORTED, M51 (NSN 4240-00-854-4144)
TM 3-4240-264-34P	3	SHELTER SYSTEM, COLLECTIVE PROTECTION, CHEMICAL BIOLOGICAL: INFLATABLE, TRAILER-TRANSPORTED, M51 (NSN 4240-00-8
TM 3-4240-276-30&P		PURIFIER, AIR: M2A2 (NSN 4240-00-868-7906) AND PRECLEANER AND PARTICULATE FILTER ASSEMBLY: M1A1-19 (4240-01-02

TM 3-4240-279-10	3	MASK, CHEMICAL-BIOLOGICAL: FIELD, ABC-M17 (NSN 4240-00-542-4450) SMALL; (4240-00-542-4451) MEDIUM; (4240-00-542-4452) LARGE; M17A1 (4240-00-926-4199) SMALL; (4240-00-926-4201) MEDIUM; (4240-00-926-4200) LARGE; M17A2 (4240-01-143-2017) X-SMALL; (4240-01-143-2018) SMALL; (4240-01-143-2019) MEDIUM; (4240-01-143-2020) LARGE
TM 3-4240-279-20&P	4	MASK, CHEMICAL-BIOLOGICAL; FIELD, ABC-M17 (NSN 4240-00-542-4450), (SMALL), (4240-00-542-4451), (MEDIUM) AND (4240-00-542-4452), (LARGE); M17A1 (4240-00-926-4199), (SMALL), (4240-00-926-4201), (MEDIUM) AND (4240-00-926-4200), (LARGE) AND M17A2 (4240-01-143-2017), (X-SMALL), (4240-01-143-2018), (SMALL), (4240-01-143-2019), (MEDIUM) AND (4240-01-143-2020), (LARGE)
TM 3-4240-280-10	3	MASK, CHEMICAL-BIOLOGICAL: AIRCRAFT, ABC- ACCESSORIES AND MASK, CHEMICAL-BIOLOGICAL, TANK, M25A1 AND ACCESSORIES
TM 3-4240-280-20&P	3	MASK, CHEMICAL-BIOLOGICAL: AIRCRAFT, ABC-M24 (NSN 4240-00-808-8799) SMALL; (4240-00-776-4384) MEDIUM; (4240-00-808-8798) LARGE; AND MASK CHEMICAL-BIOLOGICAL: TANK, M25A1 (4240-00-994-8751) SMALL; (4240-00-994-8750) MEDIUM; (4240-00-994-8752) LARGE
TM 3-4240-284-20&P	2	COLLECTION PROTECTION EQUIPMENT, FIRE DIRECTION ARTILLERY (TACFIRE), AN/GSG-10(V) CONSISTING OF: ENTRANCE, PROT PRESSURIZED, COLLAPSIBLE, M10 (NSN 4240-00-229-2610); FILTER UN GAS-PARTICULATE, 200 CFM, 208 V, 400 HZ, M56 (4240-00-237-0227) INSTALLATION KIT, CBR, PROTECTIVE EQUIPMENT, TACFIRE, M262 (4240-01-063-4655) (THIS ITEM IS INCLUDED ON EM 0045 & EM 0143)
TM 3-4240-284-30&P	1	COLLECTIVE PROTECTION EQUIPMENT, FIRE DIRECTION ARTILLERY, (TACFIRE), AN/GSG-10(V); CONSISTING OF ENTRANCE, PRO PRESSURIZED, COLLAPSIBLE M10 (NSN 4240-00-229-2610); FILTER UNI PARTICULATE, 200 CFM, 208 V, 400 HZ, M56 (4240-00-237-0227) AND INSTALLATION KIT: CBR, PROTECTIVE EQUIPMENT, (TACFIRE), M262 (4240-01-063-4655) (THIS ITEM IS INCLUDED ON EM 0045 & EM 0143)
TM 3-4240-285-20&P	2	COLLECTIVE PROTECTION EQUIPMENT, GUIDED MISSILE PATRIOT, CONSISTING OF ENTRANCE, PROTECTIVE, PRESSURIZED, COLLA M14 (NSN 4240-01-105-5521); FILTER UNIT, GAS PARTICULATE, 400 C 208 V, 400 HZ, M59 (4240-00-237-0223); AND INSTALLATION KIT, CB PROTECTIVE EQUIPMENT, PATRIOT, M265 (4240-01-110-7617)
TM 3-4240-285-30&P	2	COLLECTIVE PROTECTION EQUIPMENT, GUIDED MISSILE PATRIOT, CONSISTING OF ENTRANCE, PROTECTIVE, PRESSURIZED, COLLA M14 (NSN 4240-01-105-5521); FILTER UNIT, GAS-PARTICULATE, 400 C 208 V, 400 HZ, M59 (4240-00-237-0223) AND INSTALLATION KIT, CBR PROTECTIVE EQUIPMENT, PATRIOT, M265 (4240-01-110-7617)

TM 3-4240-286-20&P	1	COLLECTIVE PROTECTION EQUIPMENT, AIR DEFENSE COM CONTROL SYSTEM, AN/TSQ-73; CONSISTING OF ENTRANCE, PROTECTIVE, PRESSURIZED, COLLAPSIBLE, M12 (NSN 4240-01-048-2923); FILTER UN GAS-PARTICULATE, 200 CFM, 208 V, 400 HZ M56 (4240-00-237-0227) INSTALLATION KIT, CBR, PROTECTIVE EQUIPMENT, AN/TSQ-73, M263 (4240-01-063-7679) (THIS ITEM IS INCLUDED ON EM 0045 & EM 0143)
TM 3-4240-286-30&P	1	COLLECTIVE PROTECTION EQUIPMENT, GUIDED MISSILE DEFENSE SYSTEM, AN/TSQ-73; CONSISTING OF ENTRANCE, PROTECTIVE, PRESSURIZED, COLLAPSIBLE, M12 (NSN 4240-01-048-2923); FILTER UN PARTICULATE, 200 CFM, 208 V, 400 HZ, M56 (4240-00-237-0227) AND INSTALLATION KIT, CBR, PROTECTIVE EQUIPMENT, AN/TSQ-73, M263 (4240-01-063-7679) (THIS ITEM IS INCLUDED ON EM 0045 & EM 0143)
TM 3-4240-288-12&P	2	COLLECTIVE PROTECTION EQUIPMENT NBC, SIMPLIFIED, M20 (NSN 4240-01-166-2254) {NAVFAC P-475}
TM 3-4240-298-20&P	2	COLLECTIVE PROTECTION EQUIPMENT, GUIDED MISSILE SYSTEM, PERSHING II; CONSISTING OF ENTRANCE, PROTECTIVE PRESSURIZED, COLLAPSIBLE, M14 (NSN 4240-01-105-5521); FILTER UN GAS PARTICULATE: 200 CFM, 208 V, 400 HZ, M84 (4240-01-149-1719) AND CONVERTER, FREQUENCY, STATIC: M5 (4240-00-394-9571)
TM 3-4240-298-30&P	1	COLLECTIVE PROTECTION EQUIPMENT, GUIDED MISSILE SYSTEM, PERSHING II; CONSISTING OF ENTRANCE, PROTECTIVE PRESSURIZED, COLLAPSIBLE, M14 (NSN 4240-01-105-5521); FILTER UNIT, GAS PARTICULATE: 200 CFM, 208 V, 400 HZ, M84 (4240-01-149-1719) AND CONVERTER, FREQUENCY, STATIC, M5 (4240-00-394-9571)
<u>TM 3-4240-299-23&P</u>		<u>MODULAR COLLECTIVE PROTECTION EQUIPMENT STATIC FREQUENCY CONVERTER</u>
TM 3-4240-300-10-2	3	CHEMICAL-BIOLOGICAL MASK: COMBAT VEHICLE, (NSN 4240-01-258-0064) SMALL, (4240-01-258-0065) MEDIUM, (4240-01-258-0066) LARGE
TM 3-4240-302-30&P-1		COMPARTMENT CONTROL MODULE (NSN 4240-01-057-3378)
TM 3-4240-302-30&P-11		DOOR ASSEMBLY, EXTERNAL INTEGRATED PROTECTIVE ENTRANCE, S250 SHELTER AND DOOR ASSEMBLY, EXTERNAL INTEGRATED PROTECTIVE ENTRANCE, S280 SHELTER
TM 3-4240-302-30&P-13		PROTECTIVE ENTRANCE MODULE (NSN 4240-01-307-3938)
TM 3-4240-302-30&P-2		CONTROL MODULE (NSN 4240-01-158-5904)
TM 3-4240-302-30&P-3		PROTECTIVE ENTRANCE CONTROL MODULE (NSN 4240-01-048-2803)

TM 3-4240-302-30&P-4	1	PROTECTIVE ENTRANCE CONTROL MODULE (NSN 4240-01-115-0996)
TM 3-4240-302-30&P-5		POWER DISTRIBUTION UNIT (NSN 4240-01-068-86)
TM 3-4240-302-30&P-6		AIRFLOW VALVE (NSN 4240-01-055-1493)
TM 3-4240-302-30&P-7		SYSTEM CONTROL MODULE (NSN 4240-01-333-3919)
TM 3-4240-302-30&P-8		CENTRIFUGAL FAN (NSN 4140-01-234-8170)
TM 3-4240-302-30&P-9		MOTOR CONTROLLER (NSN 6110-01-292-7777)
TM 3-4240-309-20&P	1	COLLECTIVE PROTECTION EQUIPMENT, GUARDR CONSISTING OF ENTRANCE PROTECTIVE PRESSURIZED COLLAPSIBLE M10, (NSN 4240-00-229-2610); FILTER UNIT, GAS-PARTICULATE, 400 CFM, 208 V, 400 HZ, M87 (4240-01-192-7234) AND CONVERTER FREQUENCY, STATIC: M5 (4240-00-394-9571)
TM 3-4240-310-20&P	1	COLLECTIVE PROTECTION EQUIPMENT, GUIDED MISSILE SYSTEM, I-H CONSISTING OF ENTRANCE, PROTECTIVE, PRESSURIZED: COLLAPSIBLE, M (NSN 4240-01-105-5521) AND FILTER UNIT, GAS-PARTICULATE, 200 CF M84 (4240-01-149-1719)
TM 3-4240-311-20&P	1	COLLECTIVE PROTECTION EQUIPMENT, TRAILBLAZER CONSISTING OF PROTECTIVE PRESSURIZED: COLLAPSIBLE M13 (NSN 4240-01-155-9971) UNIT, GAS-PARTICULATE: 200 CFM, 208V, 400HZ, M56 (4240-00-237- (THIS ITEM IS INCLUDED ON EM 0045 & EM 0143)
TM 3-4240-312-12&P	3	MASK, CHEMICAL-BIOLO AIRCRAFT, M43, TYPE I (NSN 4240-01-208-6966) SMALL, (4240-01-208-6967) MEDIUM, (4240-01-208-6968) LARGE, (4240-01-208-6969) EXTRA LARGE; TYPE II (4240-01-265-2677) SMAL (4240-01-265-2679) MEDIUM, (4240-01-265-2678) LARGE, (4240-01-265-2680) EXTRA LARGE
TM 3-4240-313-10		SIMPLIFIED COLLECTIVE PROTECTION EQUIPMENT: M20A1 (NSN 4240-01-330-7806)
TM 3-4240-313-20&P		SIMPLIFIED COLLECTIVE PROTECTION EQUIPMENT: M20A (NSN 4240-01-330-7806)
TM 3-4240-315-20&P	1	COLLECTIVE PROTECTION EQUIPMENT, REGENCY NET CONSISTI OF FILTER UNIT, GAS-PARTICULATE, 100 CFM, 120 V, 60/400 HZ, M93 (NSN 4240-01-231-6515) {EE025-DB-MMO-010/W152, TO 14S-1-132}
TM 3-4240-317-20&P	1	FILTER UNIT, GAS-PARTICULATE, 400 CFM, 208 V, 400 HZ, M87 (NSN 4240-01-192-7234)
TM 3-4240-318-20&P		ENTRANCE, PROTECTIVE, PRESSURIZED: COLLAPSIBLE, M13 (NSN 4240-01-155-9971); COLLAPSIBLE, M15 (4240-01-185-6786); AND COLLAPSIBLE, M16 (4240-01-240-4367)

TM 3-4240-322-20&P	1	FILTER UNIT, GAS PARTICULATE, 200 CFM, 208 V, 400 HZ, M56 (NSN 4240-00-237-0227)
TM 3-4240-323-20&P	1	ENTRANCE, PROTECTIVE, PRESSURIZED: COLLAPSIBLE, M14 (NSN 4240-01-105-5521)
TM 3-4240-325-20&P	1	FILTER UNIT, GAS-PARTICULATE: 100 CFM, 120 V, 50, 60 AND 400 HZ, M93 (NSN 4240-01-231-6515)
TM 3-4240-327-20&P		FILTER UNIT, GAS-PARTICULATE: 200 CFM, 120V, 50, 60, 400 HZ, M95 (NSN 4240-01-274-6355)
TM 3-4240-328-20&P		FILTER UNIT, GAS-PARTICULATE: 400 CFM, 120V, 50, 60 A 400 HZ, M96 (NSN 4240-01-274-6356)
TM 3-4240-332-20&P		ENTRANCE, PROTECTIVE, PRESSURIZED: INTEGRATED, EXTERNAL, S-280 SHELTER, M20 (NSN 4240-01-283-0194)
TM 3-4240-333-20&P	1	FILTER UNIT, GAS-PARTICULATE, 200 CFM, 208 V, M84 (NSN 4240-01-149-1719)
TM 3-4240-338-13&P		COLLECTIVE PROTECTION EQUIPMENT, M28 FOR USE WITH TENT, EXTENDABLE, MODULAR, PERSONNEL (TEMPER) AMEDD SMALL SHELTER (A2S)
TM 3-4240-340-10		CHEMICAL-BIOLOGICAL MASK: COMBAT VEHICLE, M42A1 (NSN 4240-01-369-7854) SMALL (4240-01-370-2622) MEDIUM (4240-01-369-7855) LARGE
TM 3-4240-341-10		MASK, CHEMICAL-BIOLOGICAL: M45 (NSN 4 414-4034) - EXTRA SMALL (EIC 123); (4240-01-414-4035) - SMALL ((4240-01-414-4051) - MEDIUM (EIC 123); (4240-01-414-4052) - LAR (EIC 123)
TM 3-4240-341-20&P		MASK, CHEMICAL-BIOLOGICAL: M45
TM 3-4240-342-10		MASK, CHEMICAL-BIOLOGICAL, AIRCRAFT: APACHE AVIATOR, M48, (NSN 4240-01-386-0198) SMALL (4240-01-386-4686) MEDIUM, (4240-01-386-0201) LARGE, (4240-01-386-0207) EXTRA LARGE
TM 3-4240-342-20&P		APACHE AVIATORS MASK, CHEMICAL-BIOLOGICAL, M48
TM 3-4240-343-20&P		CHEMICAL BIOLOGICAL MASK: COMBAT VEHICLE M42 (NSN 4240-01-258-0064) SMALL (4240-01-258-0065) MEDIUM (4240-01-258-0066) LARGE; CHEMICAL BIOLOGICAL MASK: COMBAT VEHICLE M42A1 (4240-01-369-7854) SMALL (4240-01-370-2622) MEDIUM (4240-01-369-7855) LARGE; CHEMICAL BIOLOGICAL MASK: COMBAT VEHICLE M42A2 (4240-01-413-4100) SMALL (4240-01-413-4101) MEDIUM (4240-01-413-4102) LARGE {TM 09205A-20&P/2}
TM 3-4240-344-10		MASK, CHEMICAL-BIOLOGICAL, AIRCRAFT: GENERAL AVIATOR, M49 (NSN 4240-01-413-4099) SMALL (4240-01-413-4096) MEDIUM (4240-01-413-4095) LARGE (4240-01-413-4097) EXTRA LARGE

TM 3-4240-344-20&P		MASK, CHEMICAL-BIOLOGICAL: AIRCRAFT GENERAL AVIATOR M49 (NSN 4240-01-413-4099) SMALL (4240-01-413-4096) MEDIUM (4240-01-413-4095) LARGE (4240-01-413-4097) EXTRA LARGE
TM 3-4240-346-10	2	CHEMICAL BIOLOGICAL MASKS: FIELD M40A1; COMBAT VEHICLE M42A2
TM 3-4240-346-20&P	1	CHEMICAL BIOLOGICAL MASKS: FIELD M40A1; COMBAT VEHICLE M42A2
TM 3-4240-348-10		TECHNICAL MANUAL OPERATOR INSTRUCTIONS FOR MASK, CHEMICAL-BIOLOGICAL: LAND WARRIOR, M45 (NSN 4240-01-447-6989-EXTRA SMALL) (NSN 4240-01-447-6987-SMALL) (NSN 4240-01-447-8967-MEDIUM) (NSN 4240-01-447-6988-LARGE)
TM 3-4240-348-20&P		MASK, CHEMICAL-BIOLOGICAL: LAND WARRIOR, M45 (4240-01-447-6989-EXTRA SMALL) (4240-01-447-6987-SMALL) (4240-01-447-8967-MEDIUM) (4240-01-447-6988- LARGE)
TM 3-4240-349-12&P		PROTECTION ASSESSMENT TEST SYSTEM, M41 (NSN: 4240-01-365-8241)
TM 3-4240-351-23&P		REBREATHER NSN 4240-01-449-1526
TM 3-4240-541-12&P		MASK, CHEMICAL-BIOLOGICAL: PROTECTIVE, M53, RIGHT (4240-01-526-2163) EXTRA-SMALL (4240-01-526-3923) SMALL (4240-01-526-2164) MEDIUM (4240-01-526-2168) LARGE AND MASK, CHEMICAL, CHEMICAL-BIOLOGICAL: PROTECTIVE, M53, LEFT (4240-01-526-2169) EXTRA-SMALL (4240-01-526-2165) SMALL (4240-01-526-2167) MEDIUM (4240-01-526-2166) LARGE
TM 3-4240-542-13&P		MASK, CHEMICAL-BIOLOGICAL: JOINT SERVICE GENERAL PURPOSE, FIELD, M50 (4240-01-512-4431) SMALL (4240-01-512-4434) MEDIUM (4240-01-512-4437) LARGE AND MASK, CHEMICAL-BIOLOGICAL: JOINT SERVICE GENERAL PURPOSE, COMBAT VEHICLE, M51 (4240-01-512-4429) SMALL (4240-01-512-4435) MEDIUM (4240-01-512-4436) LARGE
TM 3-4310-100-20&P		COMPRESSOR UNIT, RECIPROCATING: POWER DRIVEN, FLAMETHROWER, 3 1/2 CFM, AN-M4 (WALTER KIDDE) (NSN 4310-00-592- AN-M4B (STEWART-WARNER) (4310-00-848-6075), AN-M4C (STEWART-WAR (4310-00-078-5431) AND AN-M4D (WALTER KIDDE) (4310-00-181-5054)
TM 3-5180-210-15	2	CRIMPING OUTFIT, HYDRAULIC, VOICEMITTER-OUTLET VALVE ASSEMBLY, ABC-M1 (FSN 5180-911-1366)
TM 3-6505-001-10		REACTIVE SKIN DECONTAMINATION LOTION (RSDL) (NSN 6505-01-507-5074) TRAINING PACKET, REACTIVE SKIN DECONTAMINATION LOTION (RSDL) (NSN 6910-01-507-5141)
TM 3-662-15		BEAM, HOISTING, LIQUID GAS TANK, M1
TM 3-6665-209-20P		INDICATOR, OUTLET VALVE LEAKAGE, M4A1 (FSN 6665-738-2128)

TM 3-6665-209-35	1	INDICATOR, OUTLET VALVE LEAKAGE, M4A1
TM 3-6665-209-35P		INDICATOR, OUTLET VALVE LEAKAGE, M4A1 (FSN 6665-738-2128) ALARM, CH AGENT, AUTOMATIC: PORTABLE, MANPACK, M8 (NSN 6665-00-935-6955) EMPLACEMENT, M10 (6665-00-169-1446) FOR TRUCKS, UTILITY: 1/4-TON (6665-00-169-1447); FOR TRUCK: 3/4-TON, M12 (6665-00-169-1448); TRUCK: 2 1/2-TON, M13 (6665-00-169-1449); FOR FULL-TRACKED, ARM PERSONNEL CARRIERS AND RECOVERY VEHICLES, M14 (6665-00-169-1450) CARRIER, COMMAND AND RECONNAISSANCE, ARMORED: M15 (6665-00-169-00-169 WITH POWER SUPPLY FOR TRUCK, UTILITY: 1/4-TON, M16 (6665-00-169 WITH POWER SUPPLY FOR FOR TRUCK: 3/4-TON, M17 (6665-00-
TM 3-6665-225-12	2	00-
TM 3-6665-254-12	1	DETECTOR KIT, CHEMICAL AGENT, ABC-M18A2 (NSN 6665-00-903-4746)
TM 3-6665-268-10		SAMPLING KIT, CBR AGENT M34
TM 3-6665-302-34	2	DETECTOR CHEMICAL AGENT, AUTOMATIC ALARM, M43 (NSN 6665-00-859-2201) AND UNIT, CHEMICAL AGENT, AUTOMATIC ALARM, M42 (6665-00-859-2215) (THIS ITEM IS INCLUDED ON EM 0038 & EM 0045)
TM 3-6665-302-34P	2	DETECTOR UNIT, CHEMICAL AGENT, AUTOMATIC ALARM, (NSN 6665-00-859-2201); ALARM UNIT, CHEMICAL AGENT, AUTOMATIC A M42 (6665-00-859-2215) (THIS ITEM IS INCLUDED ON EM 0038 & EM 0045)
TM 3-6665-303-10		CALCULATOR SET, RADIAC AND NUCLEAR YIELD: ABC-M28A1 (FSN 6665-130-3616)
TM 3-6665-304-10	1	AREA PREDICTOR, RADIOLOGICAL FALLOUT, ABC-M5A2 (NSN 6665-00-106-9595)
TM 3-6665-307-10	3	CHEMICAL AGENT DETECTOR KIT, M256 (NSN 6665-01-016-8399) AND M256A1 (6665-01-133-4964)
TM 3-6665-308-10	2	WATER TESTING KIT, CHEMICAL AGENTS, AN-M2 (NSN 6665-00-171-9747) AND REFILL KIT, CHEMICAL AGENT DETECTOR: VG, ABC-M30A1 (6665-00-909-3647)
TM 3-6665-310-10	1	ALARM MONITOR GROUP (MICAD) NBC TACTICAL VEHICLE/AREA WARNING, M32; M1068 TRACK VEHICLE WITH FBCB2 NSN 6665-01-473-0589, M1068 TRACK VEHICLE WITH MCS-SPARC NSN 6665-01-473-0591, HIGH MOBILITY MULTIPURPOSE WHEELED VEHICLE (HMMWV) NSN 6665-01-473-1468
TM 3-6665-310-20&P	1	ALARM MONITOR GROUP (MICAD) NBC TACTICAL VEHICLE/AREA WARNING, M32; M1068 TRACK VEHICLE WITH FBCB2 (NSN 6665-01-473-0589); M1068 TRACK BEHCILE WITH MCS-SPARC (NSN 6665-01-473-0591) HIGH MOBILITY MULTIPURPOSE WHEELED VEHICLE (HMMWV) NSN 6665-01-473-1468

TM 3-6665-311-10		CHEMICAL AGENT DETECTOR: M9 (NSN 6665-01-226-5589) {TO 11H2-2-21}
TM 3-6665-312-12&P	4	M8A1 AUTOMATIC CHEMICAL AGENT ALARM (NSN 6665-01-105-5623) AND AUXILIARY EQUIPMENT M10 POWER SUPPLY (6665-00-859-2225); M10A1 POWER SUPPLY (6665-00-093-2739); M228 HIGH PROFILE MOUNTING KIT (6665-00-859-2212) AND M182 LOW PROFILE MOUNTING KIT (6665-00-110-9492) {TO 11H2-17-1} (THIS ITEM IS INCLUDED ON EM 0038 & EM 0045)
TM 3-6665-312-30&P	5	M8A1 AUTOMATIC CHEMICAL AGENT ALARM (NSN 6665-01-105-5623) CONSISTING OF M43A1 CHEMICAL AGENT AUTOMATIC ALARM DETECTOR UNIT (6665-01-081-8140) M42 CHEMICAL ALARM UNIT (6665-00-859-2215) AND AUXILIARY EQUIPMENT M10A1 POWER SUPPLY (6665-01-093-2739) M10 POWER SUPPLY (6665-00-859-2225) {TO 11H2-17-2} (THIS ITEM IS INCLUDED ON EM 0038 & EM 0045)
<u>TM 3-6665-315-23&P</u>		<u>M21 REMOTE SENSING CHEMICAL AGENT ALARM (RSCAAL)</u>
TM 3-6665-315-10		M21 CHEMICAL AGENT, AUTOMATIC ALARM (NSN 6665-01-324-6637) (EIC: 5AA)
TM 3-6665-316-12		SIMULATOR, DETECTOR UNI CHEMICAL AGENT AUTOMATIC ALARM, M81 (NSN 6665-01-088-4789)
TM 3-6665-319-10	3	WATER TESTING KIT, CHEMICAL AGENTS: M272 (NSN 6665-01-134-0885)
TM 3-6665-320-10		M256 TRAINING CHEMICAL AGENT DETECTOR TIC SIMULATOR (NSN 6665-01-112-1644)
TM 3-6665-321-12&P	3	ALARM, CHEMICAL AGENT, AUTOMATIC: M22 (NSN 6665-01-438-6963) (EIC: Y14) AND AUXILIARY EQUIPMENT POWER CHEMICAL AGENT AUTOMATIC ALARM: M28 (6130-01-438-6960) (EIC: Y4 MOUNTING KIT, CHEMICAL AGENT AUTOMATIC ALARM: M281 (6665-01-438 (EIC: Y38) ALARM UNIT, CHEMICAL AGENT AUTOMATIC ALARM: ABCA-M42 (6665-00-859-2215) (EIC: 399) {TO 11H2-23-1; MC 10434A-12&P; EE OMP-010}
TM 3-6665-321-30&P	1	ALARM, CHEMICAL AGENT, AUTOMATIC: M22 (NSN 6665-01-438-6963) (EIC:5AC) AND AUXILIARY EQUIPMENT ALARM UNIT, CHEMICAL AGENT AUTOMATIC ALAR, ABCA-M42 (NSN 6665-00-859-2215)
TM 3-6665-329-13&P	3	M140 CHEMICAL AGENT ALARM (NSN 6665-01-083-2749) {TO 11H2-18-1}
TM 3-6665-331-10	4	CHEMICAL AGENT MONITOR (CAM)
TM 3-6665-331-23&P	7	CHEMICAL AGENT MONITOR (CAM) (NSN 6665-01-199-4153) (EIC: 555) {TO 11H2-20-2}

TM 3-6665-332-13&P	4	DIAGNOSTIC TEST SET (DTS) (NSN 6665-99-000-3023) {TO 11H2-19-1} (THIS ITEM IS INCLUDED ON EM 0045 & EM 0068)
TM 3-6665-339-10		IETM FOX NBCRS, M93A1
TM 3-6665-339-12&P		IETM FOR M93A1 FOX
TM 3-6665-342-10	2	NUCLEAR-BIOLOGICAL-CHEMICAL RECONNAISSANCE SYSTEM (NBCRS) FOX XM93 (NSN 6665-01-323-2582) (EIC: Y58)
TM 3-6665-342-20&P		NUCLEAR-BIOLOGICAL-CHEMICAL RECONNAISSANCE SYSTEM (NBCRS) FOX XM93 (NSN 6665-01-323-2582) (EIC: Y58) NBC SUITE
TM 3-6665-343-10		IMPROVED CHEMICAL AGENT MONITOR (ICAM) UNIT AND DIRECT SUPPORT MAINTENANCE MANUL FOR
TM 3-6665-343-23&P	1	IMPROVED CHEMICAL AGENT MONITOR (IC (NSN 6665-01-357-8502) (EIC: 5AB)
TM 3-6665-348-12&P		COLLECTOR, AMBIENT AIR: DFU 2000 (NSN 6665-01-523-3926) (EIC: NOT APPLICABLE) COLLECTOR, AMBIENT AIR: DFU 1000 (NSN 6665-01-523-3927 (EIC: NOT APPLICABLE) AND AUXILIARY EQUIPMENT CONSISTING OF HAND HELD ASSAY (NSN 6665-01-504-8534) COLLECTOR KIT, AMBIENT AIR (NSN 6665-01-532-2403) AND BIO RESPONSE KIT (NAVY ONLY) PNICN 0000-LL-CQA-8497
TM 3-6665-349-12&P	1	ALARM, BIOLOGICAL AGENT, AUTOMATIC: INTEGRATED DETECTION SYSTEM, M31 (NSN 6665-01-392-6191) (EIC: 5AP)
TM 3-6665-350-12&P	1	ALARM, BIOLOGICAL AGENT, AUTOMATIC: INTEGRATED DETECTION SYSTEM, M31A1 (NSN 6665-01-436-2309 (EIC: 5AQ)
<u>TM 3-6665-355- 23&P</u>		<u>JOINT CHEMICAL AGENT DETECTOR (JCAD)</u>
TM 3-6665-356-12		TECHNICAL MANUAL DETECTOR KIT, CHEMICAL AGENT, ABC-M18A3 (NSN 6665-01-463-4278) (EIC: 240)
TM 3-6665-358-12&P		SAMPLER KIT, AIR: CHEMICAL AGENT ALARM, M29 (NSN 6665-01-447-8480)
<u>TM 3-6665-392-13&P</u>		<u>BLOCK II CHEMICAL BIOLOGICAL MASS SPECTROMETER (CBMS II)</u>
TM 3-6665-397-12&P		OPERATOR'S AND UNIT MAINTENANCE MANUAL WITH REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL) DETECTION SYSTEM, BIOLOGICAL AGENT: JOINT POINT, SHELTER XM97 NSN 6665-01-452-9644
TM 3-6665-400-10	1	TECHNICAL MANUAL OPERATOR'S MANUAL FOR ANALYTICAL LABORATORY SYSTEM
<u>TM 3-6665-403-13&P</u>		<u>Joint Biological Standoff Detection System (JBSDS)</u>

TM 3-6680-316-10		TESTER, AIRFLOW, GAS-PARTICULATE FILTER UNIT: M39 (NSN 6680-00-436-4212)
TM 3-6910-226-10		M72A1 SIMULANTS CHEMICAL AGENT IDENTIFICATION TRAINING SET (NSN 6910-00-106-4800)
TM 3-6910-227-10	3	TRAINING SET, CHEMICAL AGENT IDENTIFICATION: SIMULANTS, M72A2 (NSN 6910-01-043-2090)
TM 3-6920-100-12&P		LAUNCHER, PROJECTILE, LIQUID AIRBURST: M267 (NSN 6920-01-110-7680)
TM 38-250	1	PREPARING HAZARDOUS MATERIALS FOR MILITARY AIR SHIPMENTS
TM 38-400		JOINT SERVICE MANUAL (JSM) FOR STORAGE AND MATERIALS HANDLING {NAVSUP PUB 592; AFMAN 23-210; MCO 4450-14; DLAM 4145.12}
TM 38-410		STORAGE AND HANDLING OF HAZARDOUS MATERIALS {DLAM 4145.11; NAVSUP PUB 573; AFR 69-9; MCO 4450-12}
TM 3-9905-001-10	2	SIGN KIT, CONTAMINATION (NSN 9905-01-346-4716)
	1	COMPRESSOR UNIT, RECIPROCATING, POWER DRIVEN, FLAME THROWER, 3 AN-M4 (FSN 4310-592-8560)
<u>TM 5-6350-275-10</u>		<u>INTEGRATED COMMERCIAL INTRUSION DETECTION SYSTEM (ICIDS)</u>
TM 11-5543	6	RADIAC SETS, AN/PDR-27A, AN/PDR-27C AND AN/PDR-27E (INCLUDING R PARTS AND SPECIAL TOOLS LISTS)
<u>TM 11-6350-296-12&P</u>		<u>BATTLEFIELD ANTI-INTRUSION SYSTEM (BAIS)</u>
TM 11-6665-209-10	1	RADIAC SETS, AN/PDR-27J (NSN 6665-00-543- AN/PDR-27L (6665-00-856-3456) AND AN/PDR-27Q (6665-00-017-8903)
TM 11-6665-209-10-HR		RADIAC SETS, AN/PDR-27J (NSN 6665-00-543-1435), AN/PDR-27L (6665-00-856-3456) AND AN/PDR-27Q (6665-00-017-8903)
TM 11-6665-209-20		RADIAC SETS, AN/PDR-27J (NSN 6665-00-543-1435), AN/PDR-27L (6665-00-856-3456) AND AN/PD (6665-00-017-8903)
TM 11-6665-209-40		RADIAC SETS, AN/PDR-27J (NSN 6665-00-543-1435), AN/PDR-27L (6665-00-856-3456) AND AN/PD (6665-00-017-8903)
TM 11-6665-214-10	1	RADIACMETERS, IM-9E/PD (NSN 6665-00-243-8 IM-93/UD (6665-00-752-7759) AND IM-147/PD (6665-00-542-0729)
TM 11-6665-221-20P		RADIAC SET AN/PDR-60 (NSN 6665-00-965-1516)
TM 11-6665-224-15	3	RADIAC SET, AN/PDR-27P (NSN 6665-00-975-722)

TM 11-6665-224-20P		RADIAC SET AN/PDR-27P (NSN 6665-00-975-7222)
TM 11-6665-224-40P		RADIAC SET, AN/PDR-27P (NSN 6665-00-975-7222)
TM 11-6665-227-12	5	CALIBRATOR SET, RADIAC, AN/UDM-2 (NSN 6665-00-179-9037)
TM 11-6665-228-15	2	RADIAC SET, AN/PDR-27G
TM 11-6665-228-20P		RADIAC SET, AN/PDR-27G (FSN 6665-543-1443)
TM 11-6665-228-40P		RADIAC SET AN/PDR-27G, FSN 6665-543-1443
TM 11-6665-230-12		RADIAC SET AN/PDR-27R (NSN 6665-00-961-0846)
TM 11-6665-230-12-HR		RADIAC SET, AN/PDR-27R (NSN 6665-00-961-0846)
TM 11-6665-230-20P		RADIAC SET AN/PDR-27R (NSN 6665-00-961-0846)
TM 11-6665-230-34		RADIAC AN/PDR-27R (NSN 6665-00-961-0846)
TM 11-6665-230-40P		RADIAC SET AN/PDR-27R (NSN 6665-00-961-0846)
TM 11-6665-232-12		RADIACMETERS, IM-174A/PD (NSN 6665-00-999-5145) AND IM-174B/PD (6665-01-056-7422)
TM 11-6665-232-20P		RADIACMETERS, IM-174A/PD (NSN 6665-00-999-5145) AND IM-174B/PD (6665-01-056-7422)
TM 11-6665-232-40	1	RADIACMETERS, IM-174A/PD (NSN 6665-00-999-5145) AND IM-174B/PD (6665-01-056-7422)
TM 11-6665-232-40P		RADIACMETERS, IM-174A/PD (NSN 6665-00-999-5145) AND IM-174B/PD (6665-01-056-7422)
TM 11-6665-234-24P		CHARGER, RADIAC DETECTOR, PP-4370/PD (NSN 6665-01-042-0382)
TM 11-6665-236-10-HR		RADIAC SET, AN/PDR-75 (NSN 6625-01-211-4217)
TM 11-6665-236-12		RADIAC SET AN/PDR-75 (NSN 6665-01-211-4217) (EIC: KYD)
TM 11-6665-236-20P		RADIAC SET AN/PDR-75 (NSN 6665-01-211-4217)

TM 11-6665-236-40		RADIAC SET, AN/PDR-75 (NSN 6665-01-211-4217)(EIC: KYD)
TM 11-6665-236-40P		RADIAC SET AN/PDR-75 (NSN 6665-01-211-4217)
TM 11-6665-245-12	2	RADIAC SET AN/PDR-56F (NSN 6665-01-113-9530)
TM 11-6665-245-12-HR		RADIAC SET, AN/PDR-56F (NSN 6665-01-113-9530)
TM 11-6665-245-20P		RADIAC SET, AN/PDR-56F (NSN 6665-00-211-6895)
TM 11-6665-245-34	1	RADIAC AN/PDR-56F (NSN 6665-01-113-9530)
TM 11-6665-249-14	1	RADIAC SET, AN/PDR-27S (NSN 6665-01-080-4418)
TM 11-6665-249-20P		RADIAC SET AN/PDR-27S (NSN 6665-01-080-4418)
TM 11-6665-249-34P		RADIAC SET, AN/PDR-27S (NSN 6665-01-080-4418)
TM 11-6665-251-10		RADIAC SET AN/VDR-2 (NSN 6665-01-222-1425)
TM 11-6665-251-20	2	RADIAC SET AN/VDR-2 (NSN 6665-01-222-1425)
TM 11-6665-251-40	2	RADIAC SET AN/VDR-2 (NSN 6665-01-222-1425)
TM 11-6665-251-40P		RADIAC SET AN/VDR-2 (NSN 6665-01-222-1425) (EIC: KYF) AND M MT-6123/VDR-2 (5340-01-222-1374) (EIC: N/A) AN/VDR-2 RADIAC SET INSTALLATION KITS AN/VDR-2 RADIAC SET INSTALLATION KITS FOR USING VEHICLES: INSTALLATION KIT MK-2574/VDR-2 VEHICLE M113A1; INSTALLATION KIT MK- 2012/VDR-2 (NSN 6665-01-161-3838) VEHICLE M60A1/M60A3; INSTALLATION KIT MK-2013/VDR-2 (6665-01-161-3839) VEHICLE M151A INSTALLATION KIT MK-2016/VDR-2 (6665-01-161-3840) VEHICLE M1; INSTALLATION KIT MK-2017/VDR-2 (6665-01-161- 3841) VEHICLE M2/M3 INSTALLATION KIT MK-2039/VDR-2 (6665-01- 161-3842) VEHICLE M880; INSTALLATION KIT MK-2011/VDR-2 (6665-01-
TM 11-6665-362-20&P		
TM 11-6665-364-12		RADIAC SET AN/UDR-13 (NSN 6665-01-407-1237)
TM 11-6665-364-40&P		RADIAC SET AN/UDR-13 (NSN 6665-01-407-1237)

TM 11-6665-365-12&P	2	RADIAC SET AN/PDR-77 (NSN 6665-01-347-6100)
TM 11-6665-365-40	1	RADIAC SET AN/PDR-77 (NSN 6665-01-347-6100) (EIC: N/A)
TM 3-6665-303-10		CALCULATOR SET, RADIAC AND NUCLEAR YIELD: ABC-M28A1 (FSN 6665-130-3616)
LO 3-4230-209-10		DECONTAMINATING APPARATUS, POWER-DRIVEN, SKID MOUNTED, MULTIPURPOSE, NONINTEGRAL, 500 GALLON, ABC-M12A1 (THIS ITEM IS INCLUDED ON EM 0157)
<u>TM 10-5410-221-10</u>	5	SHELTER, EXPANDABLE, RIGID CONSTRUCTION W/AI (ZERO MANUFACTURING CORP., MODEL SEU-2) (FSN 5410-933-9387)
<u>TM 10-5410-221-14/1</u>	3	SHELTER, EXPANDABLE (MUST), BRUNSWICK CORP. MODEL SE-1 (NSN 5410-00-933-9387)
<u>TM 10-5410-221-24</u>	6	SHELTER, EXPANDABLE, RIGID CONSTRUCTION W/AIR-LOCK (ZERO MANUFA CORP., MODEL SEU-2) (NSN 5410-00-933-9387)
<u>TM 10-5410-221-24P</u>	2	SHELTER, EXPANDABLE, RIGID CONSTRUCTION W/A (ZERO MANUFACTURING CORP., MODEL SEU-2) (FSN 5410-933-9387)
<u>TM 10-5410-221-34P-1</u>	3	SHELTER, EXPANDABLE (MUST) (BRUNSWICK CORP., MO SE-1) (NSN 5410-00-933-9387)
<u>TM 10-5410-223-14/1</u>	2	SHELTER, MULTIPURPOSE, MEDICAL UNIT, SELF-C TRANSPORTABLE (MUST) (BRUNSWICK MODEL CW1) (NSN 5410-00-809-663)
<u>TM 10-5410-223-24P/1</u>	5	SHELTER, MULTI-PURPOSE, MEDICAL UNIT, SELF-CONT TRANSPORTABLE (MUST) (BRUNSWICK MODEL CW-1) (NSN 5410-00-809-66)
<u>TM 10-5410-224-14</u>	3	SHELTER, EXPANDABLE FOR SHOP, PORTABLE, AIRCRAFT MAINTENANCE (SPAM) (NSN 5410-01-003-2933)
<u>TM 10-5410-224-24P</u>	4	SHELTER, EXPANDABLE, SHOP, PORTABLE, AIRCRA MAINTENANCE (SPAM) (NSN 5410-01-003-2933)
<u>TM 10-5410-228-10</u>	1	CHEMICAL BIOLOGICAL PROTECTIVE SHELTER (CBPS) SYSTEM NSN 5410-01-441-8054 (GREEN) NSN 5410-01-482-4633 (TAN)
<u>TM 10-5410-228-24</u>	1	CHEMICAL BIOLOGICAL PROTECTIVE SHELTER (CBPS) SYSTEM NSN 5410-01-441-8054 (GREEN) NSN 5410-01-482-4633 (TAN)

RPSTL FOR CHEMICAL BIOLOGICAL PROTECTIVE SHELTER (CBPS) SYSTEM NSN 5410-01-441-8054 (GREEN) NSN 5410-01-482-4633 (TAN)

TM 10-5410-228-24P

CHEMICALLY PROTECTED DEPLOYABLE MEDICAL SYSTEM (CPO DEPMENDS) (NSN 5410-01-479-9730 AND 5410-01-479-9727) AND CPDEPMEDS TRAINING SET (NSN 6910-01-479-2464)

TM 10-5410-283-14&P

CHEMICALLY PROTECTED DEPLOYABLE MEDICAL SYSTEM (CP DEPMEDS) MEDICAL RE-ENGINEERING INITIATIVE (MRI) CONFIGURATION (NSN 5410-01-522-4818, 5410-01-522-4820, 5410-01-523-0255, 5410-01-523-0257, 5410-01-523-0254, 5410-01-523-0256) AND CP DEPMENDS TRAINING SET (NSN 6910-01-479-2464)

TM 10-5410-286-14&P

TM 10-5411-200-14 9 SHELTER, TACTICAL, EXPANDABLE, TWO-SIDED (NSN 5411-01-136-9838) (60 AMP MODEL); (5411-01-294-9866) (100 AMP MODEL)

TM 10-5411-200-24P 1 SHELTER, TACTICAL, EXPANDABLE, TWO-SIDED (NSN 5411-01-136-9838) {TO 35E4-177-4} (THIS ITEM IS INCLUDED ON EM 0153)

TM 10-5411-201-14 9 SHELTER, TACTICAL, EXPANDABLE, ONE-SIDE (NSN 5411-01-124-1377) (60 AMP MODEL); (5411-01-295-3433) (100 MODEL) {TO 35E4-178-1} (THIS ITEM IS INCLUDED ON EM 0153)

TM 10-5411-201-24P 1 SHELTER, TACTICAL, EXPANDABLE, ONE-SIDED 60 AMP (NSN 5411-01-124-1377) 100 AMPP (5411-01-295-3433) {TO 35E4-178-4} (THIS ITEM IS INCLUDED ON EM 0153)

TM 10-5411-202-14 7 SHELTER, TACTICAL, NONEXPANDABLE 60 AMP MODEL (NSN 5411-01-136-9837) AND 100 AMP MODEL (5411-01-294-6390)

TM 10-5411-202-24P 1 SHELTER, TACTICAL NON EXPANDAB

TM 10-5411-203-13 COMPLEXING KIT PASSAGEWAYS: TYPE II, CLASS A, STYLE 1, SAND, P/N 5-4-6730-1 (81337) STYLE 2, SAND, P/N 5-4-6730-30(81337) STYLE 1, GREEN, P/N 5-4-6730-2 (81337) STYLE 2, GREEN, P/N 5-4-6730-04 (81337) COMPLEXING KIT PASSAGEWAYS, TYPE II, CLASS B STYLE 1, SAND, P/N 5-4-6731-1 (81337) STYPE 2, SAND P/N 5-4-6731-3

TM 10-5411-203-23P COMPLEXING KIT, PASSAGEWAYS, TYPE II, CLASS A SAND, STYLE 1, P/N 5-4-6730-10(81337) SAND, STYLE 2, P/N 5-4-6730-3 (81337) GREEN, STYLE 1, P/N 5-4-6730-20(81337) GREEN, STYLE 2, P/N 5-4-6730-4 (81337) COMPLEXING KIT, PASSAGEWAYS, TYPE II, CLASS B SAND, STYLE 1, P/N 5-4-6731-1 (81337) SAND, STYLE 2

<u>TM 10-5411-205-13</u>	3	SHELTER ELECTRICAL EQUIPMENT S-250/G (UNSHIELDED) (NSN 5411-00-999-4935 S-250/G (SHIELDED) (5411-00-489-6076) (THIS ITEM IS INCLUDED ON EM 0068, EM 0079, AND EM 0153)
<u>TM 10-5411-205-23P</u>	1	SHELTER, ELECTRICAL EQUIPMENT, S-250/G UNSHIELDED, (NSN 5411-00-999-4935), S-250/G SHIELDED (5411-00-489-6076) (THIS ITEM IS INCLUDED ON EM 0068, EM 0079, AND EM 0153)
<u>TM 10-5411-206-14</u>	1	SHELTER, ELECTRICAL EQUIPMENT S-280B/G (NSN 5411-00-117-2868) S-280B/G (SHIELDED) (5411-00-001-4093) (THIS ITEM IS INCLUDED ON EM 0059, EM 0087, AND EM 0153)
<u>TM 10-5411-206-24P</u>	1	SHELTER, ELECTRICAL EQUIPMENT S-280B/G (NSN 5411-00-117-2868) S-280B/G (SHIELDED) (5411-00-001-4093) (THIS ITEM IS INCLUDED ON EM 0087 AND EM 0153)
<u>TM 10-5411-207-14</u>	3	SHELTER, ELECTRICAL EQUIPMENT S-280C/G (NSN 5411-01-092-089
<u>TM 10-5411-207-24P</u>	1	SHELTER, ELECTRICAL EQUIPMENT S-280 (UNSHIELDED) (NSN 5411-01-092-0892) S-280C/G (SHIELDED) (5411-01-304-3069) (THIS ITEM IS INCLUDED ON EM 0153)
<u>TM 10-5411-222-14</u>		SHELTER, NONEXPANDABLE INTEGRATED, S787/G (NSN 5411-01-333-0663) (EIC: N/A))
<u>TM 10-5411-235-13&P</u>		LIGHTWEIGHT MULTIPURPOSE SHELTER (LMS) LMS TYPE 1, NSN 5411-01-473-5051 AND LMS TYPE III, NSN 5411-01-473-5055
<u>TM 10-5430-237-12&P</u>		TANK FABRIC COLLAPSIBLE: AIR COLUMN SUPPORTED, OPEN TOP WATER STORAGE, 3000 GALLSON MODEL 900740(EIC=ZFV) MODEL 91038/MODWL WT2008 (EIC=ZIZ) NSN 5430-01-1760-6984 AND TANK FABRIC, COLLAPSIBLE, SELF-SUPPORTING, SEALED TOP, WATER STORAGE, 3,000 GALLONS MODEL GTA-Z60TPW/,PDE; 3-L-W-O-AZ) (NSN 5430-01-469-8744)/ (NSN 5430-01-470-7380)
<u>TM 10-5430-240-13&P</u>		TANK, FABRIC, COLLAPSIBLE, WATER, 3,000 AND 5,000 GALLONS, SEMI-TRAILER MOUNTED, 3,000 GALLONS MODEL PD62783-3000 (NSN 5430-01-181-4071), MODEL 91093 (NSN 5430-01-372-6901); AND 5,000 GALLONS , MODEL PD62783-4750 (NSN 5430-01-120-7823) AND MODEL 91094 (NSN 5430-01-372-6900)
<u>TM 10-5430-242-12&P</u>	1	TANK, FABRIC, COLLAPSIBLE, FUEL STORAGE: 3,000 GALLON, MODEL GTA-3KF/RCF-3-K-F-OB (NSN 5430-01-485-8340/NSN 5430-01-486-8209); 10,000 GALLON, MODEL GTA-10KF/RCF-10-K-F-OB (NSN 5430-01-486-0221/NSN05430-01-485-8336); 20,000 GALLON, MODEL GTA-20KF/RCF-20-K-F-OB (NSN 5430-01-485-8338/NSN 5430-01-486-1034) ; 50,000 GALLON, MODEL GTA-50KF/RCF-50-K-F-OB (NSN 5430-01-485-8337/NSN 5430-01-485-8342)

<u>TM 10-5430-245-13&P</u>	DRUM, FABRIC, COLLAPSIBLE, DRINKING WATER, 500 GALLON CAPACITY, MODEL GTA500W (NSN 5430-01-527-4514)
<u>TM 10-5430-249-13&P</u>	TANK, FABRIC, COLLAPSIBLE, DRINKING WATER (NSN 5430-01-483-1065) (TAN)
<u>TM 10-8340-240-12&P</u>	<u>COLLECTIVE PROTECTION SYSTEM FOR THE MODULAR GENERAL PURPOSE TEST SYSTEM</u>
<u>TM 10-8415-232-23&P</u>	PERSONAL ICE COOLING SYSTEM (PICS) NSN 8415-01-455-3175
<u>TM 10-8415-233-12&P</u>	IMPROVED TOXICOLOGICAL AGENT PROTECTIVE (ITAP) ENSEMBLE
<u>TM 10-8415-236-10</u>	OPERATOR'S MANUAL FOR EXTENDED COLD WEATHER CLOTHING SYSTEM GENERATION III (ECWCS GEN III)
<u>TM 43-0001-26-1</u>	<u>Modular Collective Protection Equipment (MCPE)- Mobile Trucks GPFU- Mobile Trucks, M277 Instalation Kit (TACFIRE)</u>
<u>TM-43-0001-26-2</u>	<u>SMOKE POT: HC, 10-POUND, M1, M42A2 HC SMOKE POT: FLOATING, SMOKE POT: SCREENING, FLOATING, TA, PRACTICE, M8, M239 ARAMENT SUBSYSTEM GRENADE LAUNCHER, M243 ARAMENT SUBSYSTEM GRENADE LAUNCHER, M257, M239</u>
<u>TM 43-0001-36-01</u>	<u>Modular Collective Protection Equipment Static Frequency Converter, GRENADE, HAND: INCENDIARY, TH3, AN-M14, GRENADE, HAND: SMOKE, HC, AN-M8</u>
<u>TM 43-0002-31</u>	<u>DESTRUCTION OF CHEMICAL WEAPONS AND DEFENSE EQUIPMENT TO PREVENT ENEMY USE</u>
<u>TM M67004-04-P-0257</u>	<u>INTELAGARD FALCON OPERATOR'S MANUAL, FIXED SITE DECONTAMINATION SYSTEM, NSN 4230-01-507-7363</u>

Maintenance Work Requirement

MWO 3-1040-279-50-1	M157 SMOKE GENERATOR MOUNTING KIT
MWO 3-1040-279-50-2	M157 SMOKE GENERATOR MOUNTING KIT
MWO 3-1040-285-50-1	M58 SMOKE GENERATOR

MWO 3-1040-285-50-2

M58 SMOKE GENERATOR

MWO 3-1040-285-50-3

MODIFICATION OF GENERATOR, SMOKE MECHANICAL:
MECHANIZED SMOKE OBSCURANT SYSTEM, M58 (NSN 1040-01-413-8332)
M12A1 POWER-DRIVEN DECONTAMINATING APPARATUS

MWO 3-4230-209-50-1

MODIFICATION OF THE DECONTAMINATING APPARATUS: POWER DRIVEN, LIGHTWEIGHT, M17 LDS (NSN 4230-01-251-8702) M17A1 LDS (4230-01-303-5225) M17A2 LDS (4230-01-346-1778) M17A3 LDS (4230-01-346-3122) (THIS ITEM IS INCLUDED ON EM 0157)

MWO 3-4230-228-20-1

MODIFICATION FOR THE REMOVAL/REPLACEMENT OF M48 GAS PARTICULATE FILTER (GPF) NSN 4240-01-161-3710 AND M48A1 GAS PARTICULATE FILTER (GPF) NSN 4240-01-363-1311 (ONLY M481A - LOT NUMBERS BEGINNING WITH "P", "PFC", OR "PARMATIC")

MWO 3-4240-325-12-1

M14 TESTER, LEAKAGE, MASK DEPOT OVERHAUL PROCEDURES

MWO 3-6665-257-50-2

M243/M257/M259 SMOKE GRENADE LAUNCHER

MWO 9-1040-267-50-1

CHEMICAL BIOLOGICAL PROTECTIVE SHELTER (CBPS) SYSTEM
NSN 5410-01-441-8054(GREEN)NSN 5410-01-482-4633(TAN)

MWO 10-5410-228-55-1

National Maintenance Work Requirement

NMWR 3-4320-376-I1

RECIPROCATING PUMP UNIT USED ON M8A1 AUTOMATIC
CHEMICAL AGENT ALARM NSN 4320-01-115-2023

Supply Bulletin

SB 3-30

CHEMICAL MATERIEL (OTHER THAN CLASS V) STORAGE
SERVICEABILITY STANDARD (THIS ITEM IS INCLUDED ON EM 004)

SB 3-30-2

CHEMICAL-BIOLOGICAL CANISTERS AND FILTER ELEMENTS:
SERVICEABILITY LISTS (TO 14P4-1-151) (THIS ITEM IS INCLUDED ON EM 0045)

SB 3-30-27

FILTER UNITS, GAS PARTICULATE, EMD, 600 CFM, M9 AND M9A1; 1200 CFM, M10 AND M10A1; 2500 CFM, M11 AND 500 CFM, M12; SERVICEABILITY STANDARD

SB 3-30-228

CAPSULE, CN, PELLET, CN, M2, CN SOLUTION, CNB, CN SOLUTION
CNC, CHEMICAL AGENT, CS1: SERVICEABILITY STNADARD

SB 3-30-277

SULFUR TRIOXIDE SOLUTION (FS) TITANIUM TETRACHLORIDE,
FM; SERVICEABILITY STANDARD

SB 3-41

RECEIPT, STORAGE, ISSUE AND DISPOSAL OF ROCKET, GAS, 115-MM, M55; ROCKET, TRAINING, DUMMY, 115-MM, M60 (E49) AND ROCKET, PRACTICE, SIMULANT, EG, 115-MM, M61

SB 3-1370-3		STARTER, FIRE, NP3, M2; STORAGE SERVICEABILITY STANDARD
SB 740-94-1		STORAGE SERVICEABILITY STANDARDS FOR AMCCOM MATERIEL SETS AND KITS, DETECTORS AND ALARMS, CBR AND ANCILLARY ITEMS (THIS ITEM IS INCLUDED ON EM 0045)
SB 740-94-2		STORAGE SERVICEABILITY STANDARDS FOR SBCCOM MATERIAL: DECONTAMINATING EQUIPMENT AND DECONTAMINATING AGENTS (THIS ITEM IS INCLUDED ON EM 0157)
SB 740-94-4		STORAGE SERVICEABILITY STORAGE SERVICEABILITY STANDARDS FOR COLLECTIVE PROTECTION EQUIPMENT, CHEMICAL-BIOLOGICAL AND ANCILLARY ITEMS (REPRINTED W/BASIC INCL C1)(THIS ITEM IS INCLUDED ON EM 0045)
SB 740-94-5		STORAGE SERVICEABILITY STANDARDS FOR MASKS, CHEMICAL-BIOLOGICAL (ALL TYPES), AND ANCILLARY ITEMS (THIS ITEM IS INCLUDED ON EM 0045)
SB 740-94-6		STORAGE SERVICEABILITY STANDARDS FOR SBCCOM MATERIEL FILTER UNITS, GAS PARTICULATE, AND ANCILLARY ITEMS (THIS ITEM IS INCLUDED ON EM 0045)
SB 740-94-7		STORAGE SERVICEABILITY STANDARDS FOR BREATHING AND RESPIRATORY APPARATUS, SELF CONTAINED PROTECTIVE OUTFITS AND ANCILLARY ITEMS
SB 740-94-8		STORAGE SERVICEABILITY STANDARD FOR ARRCOM MATERIEL: RIOT CONTROL AGENT DISPERSERS AND ANCILLARY ITEMS (RE-PRINTED W/BASIC INCL C1-2)
SB 740-94-9		STORAGE SERVICEABILITY STANDARDS FOR SBCCOM MATERIEL: SMOKE GENERATORS; GENERATORS AND ANCILLARY ITEMS (THIS ITEM IS INCLUDED ON EM 0033)
SB 740-94-12		STORAGE SERVICEABILITY STANDARDS FOR AMCCOM MATERIEL: TOXIC AGENT FILLING/HANDLING APPARATUS AND CBR HAZARD CALCULATORS/PREDICTORS (THIS ITEM IS INCLUDED ON EM 0045)
SB 740-94-13		STORAGE SERVICEABILITY STANDARDS FOR ARRCOM MATERIEL: FLAMETHROWERS, FLAME ROCKET LAUNCHRS AND ANCILLARY ITEMS.
SB 740-6665-94-18		DETECTOR, CONCEALED PERSONNEL: AIRCRAFT MOUNTER, M3; STORAGE SERVICEABILITY STANDARD (24X MICROFICHE)
SB 740-6665-94-20		CRAYON, VESICANT DETECTOR, M7A1; STORAGE SERVICEABILITY STANDARD (24X MICROFICHE)
SB 740-94-10	1	STORAGE SERVICEABILITY STANDARD FOR AMCCOM MATERIEL: RADIAC CALIBRATORS, RADIAC SETS, RADIOACTIVE TEST SAMPLES AND RADIOACT SOURCE SETS
SB 742-1310-94-50		CARTRIDGE, 40MM: RIOT CONTROL, CS, M674 (1310-b537) AND CARTRIDGE, 40MM: RED SMOKE, RS M675 (1310-b538), AMMUNITION SURVEILLANCE RPOCEDURES

SC 1040-95-A01 SKO COMPONENTS LIST FOR SERVICE KIT, PORTABLE RIOT CONTROL AGENT DISPERSER: M254 (CONTAINED ON SC 9999-01-SKO)

SC 4240-95-A01 COMPONENTS LIST: SAFETY EQUIPMENT SET, RESPIRATORY, 2-MAN (CONTAINED ON SC 9999-01-SKO)

Technical Bulletin

TB CML 93 ADAPTER, COMPRESSED AIR BREATHING APPARATUS, M4 (END ITEM CODE 201) AND DETECTOR KIT, CARBON MONOXIDE, COLORIMETER, M23 (END ITEM CODE 573)

TB CML 100 SMOKE POT, HC, 10 LB, M1 AND 30 LB, ABC-M5; SMOKE POT, FLOATING, HC, M4A2, SGF2, AN-M7 AND SGF2, AN-M7A1 (REPRINTED W/BASIC INCL C1) (THIS ITEM IS INCLUDED ON EM 0162)

TB CML 109 CRYPTOGRAPHIC EQUIPMENT DESTROYERS, INCENDIARY, TH4, M1A2; TH1, M1A2 AND TH1, M1A1 (THIS ITEM IS INCLUDED ON EM 0162)

TB CML 110 FILE DESTROYER, INCENDIARY, ABC-M4

TB CML 111 ONE-TON CONTAINERS

TB 3-1310-255-10 LAUNCHER AND 35-MM CARTRIDGES: TACTICAL CS, 16-TUBE, E8

TB 3-6665-312-50 CALIBRATION PROCEDURE FOR TESTER, AIRFLOW RESISTANCE, Q179 (NSN 6680-01-021-9803)

TB 3-6665-313-50 CALIBRATION PROCEDURE FOR TESTER, AIR LEAKAGE (DRY BUBBLE), Q204 (NSN 6665-01-024-0529)

TB 3-6665-314-50 CALIBRATION PROCEDURE FOR TESTER, LEAKAGE, VALVE ASSEMBLY, Q210 (NSN 6665-01-029-7109)

TB 3-6665-315-50 CALIBRATION PROCEDURE FOR INDICATOR, RESISTANCE, INHALATION AND EXHALATION, Q213 (NSN 6680-01-016-2665)

TB 3-6665-317-50 CALIBRATION PROCEDURE FOR M140 CHEMICAL AGENT AUTOMATIC ALARM, TEST SET (NSN 6665-01-083-2749) {TO 33D5-6-7-3}

TB 3-6850-001-10 HOT WEATHER (HW) DESERT OPERATIONS: CHEMICAL-BIOLOGICAL DEFENSE EQUIPMENT (CBDE) (THIS ITEM IS INCLUDED ON EM 0045)

TB 3-6850-002-10 COLD WEATHER (CW) CHEMICAL-BIOLOGICAL DEFENSE EQUIPMENT (CBDE)), SUPPORT EQUIPMENT (SE) AND CLOTHING

TB 43-0199 STORAGE, SHIPMENT, HANDLING, AND DISPOSITION OF DECONTAMINATING AGENT, DS2 (THIS ITEM IS INCLUDED ON EM 0157)

TB 43-0002-70 MAINTENANCE EXPENDITURE LIMITS FOR FSC GROUP 10, FSC CLASS 1040

TB 43-0002-71	MAINTENANCE EXPENDITURE LIMITS FOR FSC GROUP 42, FSC CLASSES 4230 AND 4240 (THIS ITEM IS INCLUDED ON EM 0198)
TB 43-0002-72	MAINTENANCE EXPENDITURE LIMITS FOR FSC GROUP 66, FSC CLASS 6665 (THIS ITEM IS INCLUDED ON EM 0198)
TB 43-0002-76	MAINTENANCE EXPENDITURE LIMITS FOR FSC GROUP 69; FSC CLASS 6910 AND 6920 (THIS ITEM IS INCLUDED ON EM 0198)
TB 43-0002-78	MAINTENANCE EXPENDITURE LIMITS FOR FSC GROUP 49 FSC CLASSES 4910 AND 4940 (THIS ITEM IS INCLUDED ON EM 0198)
TB 11-6665-364-10	RADIAC SET AN/URD-13 OPERATING INSTRUCTIONS
TB 11-6665-365-10	RADIAC SET AN/PDR-77 (NSN 6665-01-347-6100) (EIC: N/A)
TB 9-6665-285-15	ARMY CALIBRATION PROGRAM FOR RADIAC METERS
TB 9-6665-286-24	CALIBRATION PROCEDURE FOR RADIAC SET, AN/PDR-75
TB SIG 226-8	CHARGERS, RADIAC DETECTOR PP-1578/PD AND PP-1578A/PD (NSN 6625-00-542-1177)
TB SIG 226-9	FIELD EXPEDIENT FOR CHARGING RADIACMETERS IM-93/UD AND IM-147/P

Publication Number	Publication Title
MWO 9-1010-221-30-2	MODIFICATION OF M203 GRENADE LAUNCHER (NSN 1010-00-179-6447)
MWO 9-1010-221-30-3	MODIFICATION OF M203 GRENADE LAUNCHER (NSN 1010-00-179-6447)
MWO 9-1010-221-30-4	MODIFICATION OF M203 AND M203A1 GRENADE LAUNCHER (NSN 1010-00-179-6647 AND NSN 1010-01-434-9028)
SB 742-1330-38	GRENADE, HAND: ILLUMINATING, MK 1 MODS 1 AND 2 W/FUZE, SURVEILLANCE FUNCTION TEST
SB 742-1330-39	GRENADE, RIFLE: SMOKE, COLORED, M22 SEREIS; SURVEILLANCE FUNCTION TEST
SB 742-1330-40	GRENADE, RIFLE: SMOKE, COLORED STREAMER, M23 SERIES; SURVEILLANCE FUNCTION TEST
SB 742-1330-94-320	GRENADE, HAND: SMOKE, HC, AN-M8 AND GRENADE, HAND: COLORED SMOK AMMUNITION SURVEILLANCE PROCEDURES
SB 742-1330-94-321	GRENADE, HAND, INCENDIARY, TH-3, AN-M14; AMMUNITION SURVEILLANC PROCEDURES (1330-G900)
SB 742-1330-94-322	GRENADES, HAND, RIOT CONTROL, CS, ABC-M7A3, (1330-G963)
SB 742-1330-94-323	GRENADE, HAND, RIOT, CS-1, M25A2; GRENADE, HAND, RIOT, CS, M47; HAND, RED SMOKE, M48; AMMUNITION SURVEILLANCE PROCEDURES
SB 742-1330-94-350	GRENADE, HAND: FRAGMENTATION, M61, M67, M33, M26 AND M26A1, W/F DELAY, M204A1/A2 OR M213, AMMUNITION SURVEILLANCE PROCEDURES
SB 742-1330-94-370	FUZE, HAND GRENADE: M205 SERIES (1330-G870), M10 SERIES (1330-G AND M228 (1330-G878) AMMUNITION SURVEILLANCE PROCEDURES
SB 742-1330-94-371	FUZE, HAND GRENADE: M204 SERIES (1330-G873), M206 (1330-G872) A (1330-G877)
SB 742-1330-94-381	LAUNCHER AND GRENADES, SMOKE: HC AND WP, M176 AND LAUNCHER AND SMOKE: HC, M226; AMMUNITION SURVEILLANCE PROCEDURES
SB 742-1330-94-436	GRENADE, HAND: FRAGMENTATION, IMPACT, M26A2, M33A1, M57, M59, AND M68 W/FUZE; AMMUNITION SURVEILLANCE PROCEDURE
SB 742-1370-94-744	SIMULATOR, HAND GRENADE: M116A1 (1370-L601), AMMUNITION SURVEIL PROCEDURES
TB 9-1310-253-12	CARTRIDGE 40MM: NON-LETHAL, XM1006 (40MM SPONGE GRENADE-MODIFIED GOVERNMENT VERSION) FOR 40MM M203 GRENADE LAUNCHER
TB 9-1310-257-10	OPERATOR INFORMATION FOR CARTRIDGE, 40MM: MULTIPURPOSE, XM1060 FOR 40MM M203 GRENADE LAUNCHER

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Publication Number	Publication Title
TB 9-1330-211-14	OPERATOR, FIELD AND SUSTAINMENT INFORMATION FOR GRENADE, HAND, RUBBER BALL, NON-LETHAL, GG04
TM 3-1040-268-20&P	LAUNCHER, GRENADE, SMOKE: SCREENING, RP, M250 (NSN 1040-00-000-0138)
TM 3-1040-286-12&P	LIGHT VEHICLE OBSCURATION SMOKE SYSTEM (LVOSS) CONSISTING OF DISCHARGER, GRENADE, SMOKE, COUNTERMEASURE: LIGHTWEIGHT, M7 (NSN 1040-01-454-1625), INSTALLATION KIT, GRENADE LAUNCHER: SMOKE, LIGHT VEHICLE, 1-M7 DISCHARGER, TURRET OR REAR MOUNTED, M304 (NSN
TM 3-1055-649-12&P	INSTALLATION KIT, GRENADE LAUNCHER; ADJUSTABLE, MULTI-PURPOSE, 66MM, TURRET MOUNTED, M315
TM 3-1330-203-10	LAUNCHER AND GRENADES, SMOKE: HC AND WP, M176, FSN 1330-930-8945
TM 3-1330-208-10	LAUNCHER AND GRENADES, SMOKE: HC, M226
TM 43-0001-28	ARMY AMMUNITION DATA SHEETS ARTILLERY AMMUNITION GUN, HOWITZERS, MORTARS, RECOILLESS RIFLES, GRENADE LAUNCHERS, AND ARTILLERY FUZES (FSC 1310, 1315, 1320, 1390)
TM 43-0001-29	ARMY AMMUNITION DATA SHEETS FOR GRENADES
TM 9-1005-234-14P	LAUNCHERS, GRENADE, M7A M76
TM 9-1010-205-10	GRENADE LAUNCHER, 40-MM, M79 (NSN 1010-00-691-1382)
TM 9-1010-221-10	40-MM GRENADE LAUNCHER, M203 (NSN 1010-00-179-6447)
TM 9-1010-221-23&P	LAUNCHER, GRENADE, 40MM, M203, W/E (NSN 1010-00-179-6447) (EIC: 4QB); LAUNCHER, GRENADE, 40MM, M203A1, W/E (1010-01-434-9028) (EIC: 4QH) AND LAUNCHER, GRENADE, 40 MM, M203A2, W/E (1010-01-495-8511) (EIC: 4QJ)
TM 9-1010-232-10	OPERATOR'S MANUAL FOR GRENADE LAUNCHER, 40 MM, M320, W/E NSN 1010-01-566-9083 GRENADE LAUNCHER, 40 MM, M320A1, W/E NSN 1010-01-557-2542
TM 9-1010-232-23&P	FIELD MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST FOR GRENADE LAUNCHER, 40MM, M320, W/E NSN 1010-01-566-9083 GRENADE LAUNCHER, 40 MM, M320A1, W/E NSN 1010-01-557-2542
TM 9-1040-267-20&P	LAUNCHER, GRENADE, SMOKE: SCREENING, RP, M243 (NSN 1040-01-059-0560), M257 (1040-01-070-1213) AND M259 (1040-01-107-7501)

As of 20090201

Publication Number	Publication Title
TM 9-1300-251-20&P	ARTILLERY AMMUNITION FOR GUNS, HOWITZERS, MORTARS, RECOILLESS RIFLES, AND 40-MM GRENADES LAUNCHERS
TM 9-1300-251-34&P	ARTILLERY AMMUNITION FOR GUNS, HOWITZERS, MORTARS, RECOILLESS RIFLES AND 40MM GRENADE LAUNCHERS
TM 9-1330-200-12	OPERATOR'S AND ORGANIZATIONAL MAINTENANCE MANUAL FOR GRENADES
TM 9-1330-200-34	MAINTENANCE MANUAL FOR GRENADES
TM 9-1330-210-12&P	OPERATOR'S AND UNIT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST) GRENADE, RIFLE: ENTRY MUNITION, M100 (NSN 1330-01-493-8597) AND GRENADE, RIFLE, PRACTICE: TARGET PRACTICE, M101 (NSN 1330-01-493-8584)

As of 20090201

Appendix B - Chemical Doctrine

United States Army/Multi-Service Field Manuals – Chemical Doctrine

<https://www.us.army.mil/suite/portal/index.jsp>

FM – Field Manual

MTTP – Multi-Service Tactics, Techniques, and Procedures

CBRN – Chemical Biological Nuclear Radiological

Capstone Doctrine for CBRN Operations

FM 3-11 Multi-Service Tactics, Techniques and Procedures for CBRN Operations

Multi-Service Doctrine

FM 3-11.6, MTTP for CBRN Staff Operations - **Draft**

Weapons Mass Destruction Elimination

FM 3-11.20, Technical Escort (TE) Battalion Operations

FM 3-11.2, MTTP for WMD Elimination Operations - **Draft**

FM 3-90.10, CBRNE Operational Headquarters - **Draft**

FM 3-90.15 Sensitive Site Operations

Contamination Avoidance (Sense)

FM 3-11.3, MTTP for CBRN Contamination Avoidance

FM 3-11.19, MTTP for NBC Reconnaissance

FM 3-11.86, MTTP for Biological Surveillance

CBRN Protection (Shield)

FM 3-11.4, MTTP for NBC Protection – (Contains Filter Exchange Guidelines)

FM 3-11.34, MTTP for CBRN Installation Defense

FM 3-11.11, Flame, Riot Control, Herbicide Operations

Decontamination (Sustain)

FM 3-11.5, MTTP for CBRN Decontamination

Staff Tools (Shape)

FM 3-101, Chemical Staffs and Units

FM 3-11.14, MTTP for NBC Vulnerability Assessment

FM 3-11.9, Potential Military Chemical/Biological Agents & Compounds

FM 3-6, Field Behavior of NBC Agents (Including Smoke and Incendiaries)

United States Army/Multi-Service Field Manuals – Chemical Doctrine

<https://www.us.army.mil/suite/portal/index.jsp>

Consequence Management

FM 3-11.21, MTTP for CBRN Consequence Management

FM 3-11.22, WMD Civil Support Team Operations

FM 3-11.24, CBRN Handbook: Sensitive Site Exploitation Support, Environmental Recon and Hazard Survey Operations

FM 4-02.7 Helath Service Support in a Nuclear, Biological, and Chemcial Environment

Battlefield Obscuration

FM 3-11.50 Battlefield Obsuration

FM 3-101-1 Smoke Squad/Platoon. Operations/TTPs.

Policy

DOD Policy <http://www.dtic.mil/whs/directives/index.html>

Joint Policy http://www.dtic.mil/doctrine/s_index.html

Joint Doctrine

Joint Electronic Library http://www.dtic.mil/doctrine/s_index.html

The Air Land Sea Application Center (ALSA)

<http://www.alsa.mil/>

Service Doctrine

USA (TRADOC) <http://www.tradoc.army.mil/>

USAF <https://www.doctrine.af.mil/>

USN <http://www.nwdc.navy.mil/>

USMC <https://www.doctrine.usmc.mil/>

Appendix C - Master Item List by SOS

	COMMODITY AREA	MODEL NUMBER	NSN	PART NUMBER	Line Item Number (LIN)	SOURCE OF SUPPLY (SoS)	SUPPLY CLASS
	Joint Program Managed						
1	Biological Defense Products						
	Biological Integrated Detection System (BIDS)	M31	6665-01-392-6190	5-15-17670	A48430	TACOM-RI	7
		M31A1	6665-01-436-2309	5-15-18600	A48498	TACOM-RI	7
		M31A2	6665-01-500-4040	615-15-30480	A48680	TACOM-RI	7
	Biological Sampling Kit (BSK)	N/A	6665-01-494-8725	O-BSK-01C	N/A	TACOM-RI	2
		N/A	6665-01-497-7811	O-BSK-01T	N/A	TACOM-RI	2
	Dry Filter Unit (DFU)						
	DFU 1000	N/A	6665-01-523-3927	5-15-31616	N/A	TACOM-RI	2
	DFU 2000	N/A	6665-01-523-3926	5-15-31617	N/A	TACOM-RI	2
	Hand Held Assy (HHA)	N/A	6665-01-504-5834	O-HHA-01C	N/A	TACOM-RI	2
		N/A	6665-01-504-8535	O-HHA-01T	N/A	TACOM-RI	2
		N/A	Currently uncoded	O-HHA-01UN	N/A	TACOM-RI	2
	Joint Biological Point Detection System (JBPDS)						
	Man-Portable	XM96	6665-01-452-9643	30295-1600-1	N/A	TACOM-RI	7
	Shelter	XM97	6665-01-452-9644	30295-1600-2	N/A	TACOM-RI	7
	Ship	XM98	6665-01-452-9645	30295-1600-3	N/A	TACOM-RI	7
	Trailer	XM103	6665-01-512-1351	5-15-19405	N/A	TACOM-RI	7
	Joint Biological Standoff Detection System (JBSDS)	N/A	6665-01-533-7148	5-15-30891	N/A	TACOM-RI	7
	Joint Portal Shield (JPS)	N/A	N/A	N/A	N/A	N/A	N/A
	Progressive Assay						

	Reader (PAR) Carrier Assembly						
	Operational	N/A	6665-01- 521-7871	JPOPAR-10	N/A	TACOM-RI	2
	Training	N/A	6665-01- 521-7870	JPOPAR-20	N/A	TACOM-RI	2
2	Collective Protection Products						
	Command, Control & Operations (CCO) Shelters						
	M20 SCPE (Existing Room)	M20	4240-01- 166-2254	5-19-8000	C79000	TACOM-RI	7
	M20A1 SCPE (Existing Room)	M20A1	4240-01- 330-7806	5-19-11320	C79000	TACOM-RI	7
	Modular Collective Protection Equipment (MCPE)- Mobile Trucks						
	GPFU-Mobile Trucks						
	M56 GPFU	M56	4240-00- 237-0277	E5-19-6402	H48904	TACOM-RI	2
	M59 GPFU	M59	4240-00- 237-0223	E5-19-6699	N/A	TACOM-RI	2
	M84 GPFU	M84	4240-01- 149-1719	E5-19-6830	N/A	TACOM-RI	2
	M87 GPFU	M87	4240-01- 192-7234	E5-19-8908	N/A	TACOM-RI	2
	M93 GPFU	M93	4240-01- 231-6515	E5-19-8892	N/A	TACOM-RI	2
	M95 GPFU	M95	4240-01- 274-6355	E5-19-9259	N/A	TACOM-RI	9
	M96 GPFU	M96	4240-01- 274-6356	E5-19-9240	N/A	TACOM-RI	9
	M56 Gas Particulate Filter Unit (GPFU)	M56	4240-00- 237-0277	5-19-6402	N/A	TACOM-RI	2
	M59 Gas Particulate Filter Unit (GPFU)	M59	4240-00- 237-0223	5-19-6699	N/A	TACOM-RI	2
	M84 Gas Particulate Filter Unit (GPFU)	M84	4240-01- 149-1719	5-19-6830	N/A	TACOM-RI	2
	M87 Gas Particulate Filter Unit (GPFU)	M87	4240-01- 192-7234	5-19-8908	N/A	TACOM-RI	2
	M93 Gas Particulate Filter Unit (GPFU)	M93	4240-01- 231-6515	5-19-8892	N/A	TACOM-RI	9
	M95 Gas Particulate Filter	M95	4240-01- 274-6355	5-19-9259	N/A	TACOM-RI	9

	Unit (GPFU)						
	M96 Gas Particulate Filter Unit (GPFU)	M96	4240-01-274-6356	5-19-9420	N/A	TACOM-RI	9
	Installation Kits						
	M262 Installation Kit (TACFIRE)	M262	4240-01-063-4655	5-19-6704	J87608	TACOM-RI	2
	M263 Installation Kit (MISSILE MINDER)	M263	4240-01-063-7679	5-19-6705	J31970	TACOM-RI	2
	M265 Installation Kit (PATRIOT)	M265	4240-01-110-7617	5-19-6707	N/A	TACOM-RI	9
	M277 Installation Kit (TACFIRE UCE)	M277	4240-01-186-8423	N/A	N/A	TACOM-RI	9
	Other Components of MCPE						
	Compartment Control Module	N/A	4240-01-057-3378	5-19-6376	N/A	TACOM-RI	9
	Control Module	N/A	4240-01-048-2803	5-19-6357	N/A	TACOM-RI	9
	Power Distribution Unit	N/A	4240-01-068-8645	5-19-6387	N/A	TACOM-RI	9
	Static Frequency Converter	N/A	4240-00-394-9571	5-19-6425	N/A	TACOM-RI	9
	System Control Module	N/A	4240-01-234-2266	5-19-9119	N/A	TACOM-RI	9
	Protective Entrances (PE)						
	M10 PE	M10	4240-00-229-2610	5-19-6201-40	H10908	TACOM-RI	2
	M12 PE	M12	4240-01-048-2923	5-19-6201-20	E11043	TACOM-RI	2
	M13 PE	M13	4240-01-155-9971	5-19-8835	N/A	TACOM-RI	2
	M14 PE	M14	4240-01-105-5521	5-19-6201-50	N/A	TACOM-RI	2
	M15 PE	M15	4240-01-185-6786	5-19-9190	N/A	TACOM-RI	2
	M16 PE	M16	4240-01-240-4367	5-19-9192	N/A	TACOM-RI	2
	M18 PE	M18	4240-01-283-0193	5-19-9416	N/A	TACOM-RI	9
	M19 PE	M19	4240-01-283-0192	5-19-9415	N/A	TACOM-RI	9
	M20 PE	M20	4240-01-283-0194	5-19-9417	N/A	TACOM-RI	9
	Filter Fan Assemblies (FFA)						
	FFA400-100	N/A	4230-01-485-6184	FFA400	N/A	TACOM-RI	2
	FFA400-300	N/A	N/A	FFA400	N/A	N/A	2
	FFA400-400	N/A	4230-01-485-6184	FFA400	N/A	N/A	2

	FFA400-500	N/A	N/A	FFA400	N/A	N/A	2
	FFA580-100	N/A	4230-01-101-3611	106441	N/A	DLA	2
	FFA1000-100/200	N/A	4230-01-485-6185/4230-01-485-6183	FFA1000-100/FFA1000-200	N/A	TACOM-RI	2
	Fixed Installation Filters						
	M49 Fixed Installation Filter	M49	4240-01-312-9146	5-19-11282	N/A	TACOM-RI	9
	Miscellaneous Common Filters/Components						
	Centrifugal Fan	N/A	4140-01-333-3919	5-19-9118	N/A	TACOM-RI	9
	Centrifugal Fan	N/A	4140-01-390-4104	03989-44-001	N/A	DLA	9
	Hermetically Sealed Filter Canister (HSFC), 200 CFM	N/A	4240-01-178-9936	5-19-6767	N/A	TACOM-RI	9
	M3 Heater	M3	4240-00-807-6856	5-19-1782	N/A	TACOM-RI	9
	M12A2 Gas Filter	M12A2	4240-01-365-0981	5-19-2295	N/A	TACOM-RI	9
	M13 Particulate Filter, 12 CFM	M13	4240-00-368-6291	5-19-853	N/A	TACOM-RI	9
	M13A1 Hospital Headpiece	M13A1	4240-00-763-2464	5-70-23	N/A	TACOM-RI	9
	M18A1 Gas Filter	M18A1	4240-01-365-0982	5-19-2300	N/A	TACOM-RI	9
	M19 Particulate Filter	M19	4240-00-866-1825	5-19-1175	N/A	TACOM-RI	9
	M23A1 Gas Filter	M23A1	4240-01-363-1310	5-19-2298	N/A	TACOM-RI	9
	M39 Tester	M39	6680-00-436-4212	5-77-2120	W02526	DLA	2
	M48A1 Gas Filter Unit	M48A1	4240-01-363-1311	5-19-7435	N/A	TACOM-RI	9
	M98 Gas Particulate Unit	M98	4240-01-369-6533	5-19-6722-N	N/A	TACOM-RI	9
	Recirculation Filter Unit	N/A	4240-01-348-5257	5-19-10878	N/A	TACOM-RI	9
	Ship Board Collective Protection						
	Collective Protection System (CPS) Backfit Program	N/A	N/A	N/A	N/A	N/A	9
	Shipboard Collective	N/A	N/A	N/A	N/A	N/A	9

Protection Systems (CPS)						
Transportable Collective Protection Equipment						
Chemical Biological Protected System (CBPS)	Green	5410-01-441-8054	17-1-9220-1 (GRN)	C07506	TACOM-RI	7
Chemical Biological Protected System (CBPS)	Tan	5410-01-482-4633	17-1-9220-1 (TAN)	C07506	TACOM-RI	7
Collective Protection System for the Modular General Purpose Tent System (Type I) - small	Tan	8340-01-491-1507	8340-01-456-3633 (GRN)	N/A	TACOM-RI	7
Collective Protection System for the Modular General Purpose Tent System (Type I) - medium	Tan	8340-01-491-1515	8340-01-456-3628 (GRN)	N/A	TACOM-RI	7
Collective Protection System for the Modular General Purpose Tent System (Type I) - large	Tan	8340-01-491-1479	8340-01-456-3674 (GRN)	N/A	TACOM-RI	7
Collective Protection System for the Modular General Purpose Tent System (Type II) - small	Tan	8340-01-516-6859	8340-01-516-6860 (GRN)	N/A	TACOM-RI	7
Collective Protection System for the Modular General Purpose Tent System (Type II) - medium	Tan	8340-01-516-6864	8340-01-516-6861 (GRN)	N/A	TACOM-RI	7
Collective Protection System for the Modular General Purpose Tent System (Type II) - large	Tan	8340-01-516-6865	8340-01-516-6863 (GRN)	N/A	TACOM-RI	7
Collectively Protected Field Hospitals						
Chemically Protected	Green, 296 beds	5410-01-479-9730	5-4-8000-1	C07756	TACOM-RI	7

Deployable Medical Systems (CP_DEPMEDS)							
Chemically Protected Deployable Medical Systems (CP_DEPMEDS)	Tan, 296 beds	5410-01-479-9727	5-4-8000-1A	C07756	TACOM-RI	7	
Chemically Protected Deployable Medical Systems (CP_DEPMEDS)	Green, 44 beds	5410-01-522-4818	5-4-8000-5	Z00944	TACOM-RI	7	
Chemically Protected Deployable Medical Systems (CP_DEPMEDS)	Tan, 44 beds	5410-01-522-4820	5-4-8000-5A	Z00944	TACOM-RI	7	
Chemically Protected Deployable Medical Systems (CP_DEPMEDS)	Green, 40 beds	5410-01-523-0255	5-4-8000-2	Z00945	TACOM-RI	7	
Chemically Protected Deployable Medical Systems (CP_DEPMEDS)	Tan, 40 beds	5410-01-523-0257	5-4-8000-2A	Z00945	TACOM-RI	7	
Chemically Protected Deployable Medical Systems (CP_DEPMEDS)	Green, 164 beds	5410-01-523-0254	5-4-8000-3	Z00945	TACOM-RI	7	
Chemically Protected Deployable Medical Systems (CP_DEPMEDS)	Tan, 164 beds	5410-01-523-0256	5-4-8000-3A	Z00574	TACOM-RI	7	
Chemically Protected Deployable Medical Systems (CP_DEPMEDS)	Green, 84 beds	5410-01-491-8601	5-4-8000-4	No LIN	TACOM-RI	7	
Chemically Protected Deployable Medical Systems (CP_DEPMEDS)	Tan, 84 beds	5410-01-492-2114	5-4-8000-4A	No LIN	TACOM-RI	7	
Chemically Protected Deployable Medical Systems (CP_DEPMEDS)	Trng Set	6910-01-479-2464	5-4-8011-1	No LIN	TACOM-RI	7	
Chemically Protected	N/A	N/A	N/A	N/A	N/A	N/A	

	Expeditionary Medical Support (CP-EMEDS)						
	Collectively Protected Small Shelter System (CP-SSS)	N/A	N/A	N/A	N/A	N/A	N/A
	Joint Expeditionary Collective Protection (JECBP)	N/A	4240-01-346-2564	89005A0000	N/A	Navy	N/A
	M28 Collective Protection Equipment (CPE)						
	M28 Collective Protection Equipment (CPE) 16 FT	M28	4240-01-330-7807	5-19-11321-40	N/A	TACOM-RI	2
	M28 Collective Protection Equipment (CPE) 32 FT	M28	4240-01-330-7808	5-19-11321-30	N/A	TACOM-RI	2
	M28 Collective Protection Equipment (CPE) 48 FT	M28	4240-01-331-2922	5-19-11321-20	N/A	TACOM-RI	2
	M28 Collective Protection Equipment (CPE) 64 FT	M28	4240-01-331-2923	5-19-11321-10	N/A	TACOM-RI	9
	Ventilated Face Piece (VFP) Equipment						
	M1A1-19 Pre-cleaner and Particulate	M1A1-19	4240-01-026-3112	5-19-2353	N/A	TACOM-RI	9
	M2A2 Air Purifier	M2A2	4240-00-868-7906	5-19-1772	N/A	TACOM-RI	9
	M8A3 GPFU	M8A3	4240-00-853-3201	5-19-1779	N/A	TACOM-RI	9
	M13A1 GPFU	M13A1	4240-00-964-9061	5-19-3051	N/A	TACOM-RI	9
	M14 Gas-Particulate Armored Ambulance Filter Unit	M14	4240-00-010-5267	5-19-1828	H48896	TACOM-RI	2
3	Contamination Avoidance Products						
	Ammunition						
	Riot Control						
	L96A1 CS Anti-Riot Irritant	L96A1	1330-01-459-4018	13-19-870	G34777	JMC	5

	Grenade Discharger						
	L97A1 Practice Anti-Riot Irritant Grenade Discharger	L97A1	1330-01-459-4032	13-19-880	G23184	JMC	5
	M47 CS Riot Hand Grenade	M47	1330-00-477-6704	13-25-70	J79561	JMC	5
	M7A3 CS Riot Hand Grenade	M7A3	1330-00-965-0802	13-22-35	J79544	JMC	5
	M98 Distraction Non-Lethal Grenade Launcher	M98	1330-01-484-7773	13-19-760	G80478	JMC	5
	M99 Blunt Trauma Non-Lethal Grenade Launcher	M99	1330-01-484-7775	13-19-720	G80546	JMC	5
	Smoke Grenades and Smoke Pots						
	ABC-M5 30-Pound HC Smoke Pot	ABC-M5	1365-00-598-5207	36-1-18	T84505	JMC	5
	AN-M7A1 SGF2 Floating Smoke Pot	AN-M7A1	1365-00-939-6599	36-2-214	T84657	JMC	5
	AN-M8 HC Smoke Hand Grenade	AN-M8	1330-00-219-8511	13-19-32	J79681	JMC	5
	AN-M14 Incendiary Grenade	AN-M14	1330-00-219-8557	13-17-3	J77763	JMC	5
	M1 HC 10-Pound Smoke Pot	M1	1365-00-219-8512	36-1-1	T84657	JMC	5
	M4A2 HC Floating Smoke pot	M4A2	1365-00-598-5220	36-1-26	S84573	JMC	5
	M8 Smoke Pot	M8	1365-01-380-1678	36-1-300	P68265	JMC	5
	M18 Smoke Grenade	M18	1330-00-289-6851/1330-00-289-6854/1330-00-289-6852/1330-00-289-6855	13-19-37	J79133	JMC	5
	M48 Colored Smoke Hand Grenade	M48	1330-00-477-6719	13-25-71	J79201	JMC	5
	M76 IR Screening Smoke Grenade Launcher	M76	1330-01-171-8869	13-19-150	G80205	JMC	5
	M82 Simulant Screening Smoke Grenade Launcher	M82	1330-01-353-3284	13-19-290	G80228	JMC	5
	M83 TA Smoke Hand Grenade	M83	1330-01-380-0287	13-19-700	G79794	JMC	5
	M90 Smoke Grenade Light	M90	1330-01-449-9600	13-19-800/13-19-825	G23048	JMC	5

Vehicle Obscuration Smoke System							
UK-L8A1 RP Screening Smoke Grenade Launcher	L8A1	1330-01- 020-0504	TW74GF	J80160	JMC	5	
UK-L8A3 RP Screening Smoke Grenade Launcher	L8A3	1330-01- 124-5031	TW74GF/13-19- 100/13-19-133	J80160	JMC	5	
Dispersers							
Riot Control							
M33/M33A1 Portable Riot Control Agent Disperser	M33/M33A1	1040-00- 450- 6559/1040- 00-148- 9824	116-3-54/116-3- 121	G22348	TACOM-RI	7	
M37 Mid-Sized Riot Control Agent Disperser	M37	1040-01- 463-0157	116-3-160	D20400	TACOM-RI	7	
Launch Systems							
Kits							
M304 LVOSS Installation Kit	M304	1055-01- 449-1531	13-12-1000	J33383	TACOM-RI	2	
M305 LVOSS Installation Kit	M305	1055-01- 449-1530	13-12-1040	J49974	TACOM-RI	2	
M310 LVOSS Installation Kit	M310	1055-01- 451-2285	13-12-1042	J33315	TACOM-RI	2	
M315 Grenade Launcher Installation Kit	M315	1055-01- 483-8479	13-12-1100	Z53202	TACOM-RI	2	
XM327 Installation Kit	XM327	1055-01- 563-2564	13-12-1305	N/A	TACOM-RI	2	
M6 Countermeasure Smoke Grenade Discharger	M6	1040-01- 383-4114	13-12-400	N/A	TACOM-RI	2	
M7 Countermeasure Smoke Grenade Discharger, Light Vehicle Obscuration Smoke System (LVOSS)	M7	1040-01- 454-1625	13-121-1001	D15345	TACOM-RI	2	
M176 HC and WP Smoke Grenade Launcher	M176	1330-00- 930-8945	13-12-13	L43899	JMC	5	
M226 HC Smoke Grenade Launcher	M226	1330-00- 103-0694	13-12-28	L43906	JMC	5	
M239 Armament Subsystem Grenade Launcher	M239	1055-01- 015-0874	13-12-32	L44612	TACOM- RI/USMC	7	
M243 Armament	M243	1055-01-	13-12-80	L67021	TACOM-RI	7	

Subsystem Grenade Launcher		059-0560					
M250 Armament Subsystem Grenade Launcher	M250	1055-00-000-0138	13-12-122	L44680	TACOM-RI	7	
M257 Armament Subsystem Grenade Launcher	M257	1055-01-070-1213	13-12-129	L44031	TACOM-RI/USMC	7	
M259 Armament Subsystem Grenade Launcher	M259	1055-01-107-7501	13-12-150	L44748	TACOM-RI	7	
Kits							
M18A3 Chemical Agent Detector Kit	M18A3	6665-01-463-4278	5-77-3274	N/A	TACOM-RI	2	
M30A2 Chemical Agent Detector Refill Kit	M30A2	6665-01-463-4279	5-77-3273	N/A	TACOM-RI	2	
M34A1 CBR Agent Sampling Kit	M34A1	6665-01-466-9096	MIL-PRF-51200	N/A	TACOM-RI	2	
M256A1 Chemical Agent Detector Kit	M256A1/A2	6665-01-133-4964	5-77-2240	N/A	TACOM-RI	2	
M272 Chemical Agents Water Testing Kit	M272	6665-01-134-0885	5-77-2500	N/A	TACOM-RI	2	
M274 NBC Sign Kit	M274	9905-01-346-4716	5-14-1	N/A	TACOM-RI	2	
Simulator Training Kits							
M28 Simulator Chemical Agent Detector Tickets	M28	6665-01-378-5414	5-77-3260	N/A	TACOM-RI	9	
M29 Simulator Chemical Agent Detector Tickets	M29	6665-01-379-0492	5-77-3261	N/A	TACOM-RI	9	
M256A1 Simulator Chemical Agent Detector Tickets	M256A1	6665-01-293-2149	5-77-2914	N/A	TACOM-RI	2	
Point Detection							
Chemical Agent Monitor (CAM)/Improved Chemical Agent Monitor (ICAM)	N/A	6665-01-357-8502	5-15-17100	C05701	TACOM-RI	2	
Chemical Agent Monitor Simulator (CAMSIM)	N/A	6665-99-001-9985	CAMSIM001	A32778	TACOM-RI	2	
Joint Chemical Agent Detector (JCAD)	N/A	6665-01-552-2704	5-15-32019	J00697	TACOM-RI	7	
Joint Chemical Biological Radiological Water Monitor (JCBRAWM)	N/A	6665-01-134-0885	5-77-2500	N/A	N/A	N/A	

	Kits						
	JCAD Interface Kit	N/A	6665-01-557-4013	5-5-32039/15161	N/A	TACOM-RI	9
	M281 Mounting Kit, Chemical Agent Automatic Alarm (CAAA)	M281	6665-01-438-6959	EA-PRF-2061	M18087	TACOM-RI	2
	M281 Chemical Agent Automatic Alarm Mounting Kit	M281	6665-01-438-6959	EA-PRF-2061	M18087	TACOM-RI	2
	M22 Alarm Chemical Agent Automatic (ACADA)	M226	6665-01-438-6963	EA-PRF-2058	A33020	TACOM-RI	7
	M27 Multipurpose Integrated Chemical Agent Detector (MICAD)	M27	6665-01-447-6993	5-15-19018-0	A32778	TACOM-RI	7
	MK 26 Improved Point Detection System (IPDS)	MK26	N/A	N/A	N/A	N/A	N/A
	M42 Alarm Unit, Chemical Agent Automatic Alarm	M42	6665-00-859-2215	5-15-4826/2HS392	A33120	TACOM-RI	2
	M43A1 Chemical Agent Automatic Alarm Detector Unit	M43A1	6665-01-081-8140	5-15-8100/326018001	N/A	TACOM-RI	2
	Radiac Set - AN/VDR2	AN/VDR2	6665-01-222-1425	DMW-200P/D43180	R20684	CECOM	7
	Radiac Set – AN/UDR-13	AN/UDR-13	6665-01-407-1237	A3245734 AN/UDR-13	R31061	CECOM	7
	Radiac Set – AN/PDR-77	AN/PDR-77	6665-01-347-6100	A3173160	R30993	CECOM	7
	Radiac Set-AN/PDR-75	AN/PDR-75	6665-01-211-4217	C5085500	R30925	CECOM	7
	Reconnaissance						
	Family of Tactical Obscuration Devices (FOTOD)	N/A	N/A	N/A	N/A		N/A
	M93A1 Nuclear Biological Chemical Reconnaissance System (NBCRS) "Fox"	M93A1	6665-01-372-1303	5-15-14671	R41282	TACOM-RI	7
	M93A1P1 Nuclear Biological Chemical Reconnaissance System (NBCRS) "Fox"	M93A1P1	6665-01-540-9327	5-15-32018	R41582	TACOM-RI	7
	Nuclear Biological Chemical	M1135	2355-01-481-8579	1247960	N96543	TACOM-Warren	7

Reconnaissance Vehicle (NBCRV) Stryker							
Chemical Vapor Sampler System (CVSS)	N/A	6665-01-537-6901	5-15-30817	N/A	N/A		2
Joint Service Light Nuclear Biological and Chemical Reconnaissance System (JSLNBCRS)	N/A	N/A	5-15-14501	R41532	N/A		7
Smoke Generators							
Kits							
M2 Mounting Kit, Smoke Generator	M2	1040-00-347-2434	31-16-10	M74001	TACOM-RI		2
M284/M284A1 Mounting Kit, Smoke Generator	M284/M284A1	1040-01-249-0272/1040-01-379-8595	31-15-2680/31-15-2983	M17931	TACOM-RI		2
M288 Mounting Kit, Smoke Generator	M288	1040-01-248-6985	31-15-2864	M78620	TACOM-RI		2
M3A4 Smoke Generator Set (SGS)	M3A4	1040-01-143-9506	31-15-2000	J30492	TACOM-RI		7
M56/M56E Smoke Generator Set (SGS) "The Coyote"	M56	1040-01-380-1400	31-15-4001	G58151	TACOM-RI		7
M58 Mechanized Smoke Obscurant System "The Wolf"	M58	1040-01-413-8332	31-15-3200	G87229	TACOM-RI		7
M157/M157A2 Smoke Generator Set (SGS) "The Lynx"	M157/M157A2	1040-01-406-7401	31-15-3327-10	G51840	TACOM-RI		7
M1059 Smoke Generator Carrier (SGC)	M1059	2350-01-203-0188	8750136	C12815	TACOM-Warren		7
M1059A3 Smoke Generator Carrier (SGC)	M1059A3	2350-01-369-6083	8750290	C12815	TACOM-Warren		7
Standoff							
Chemical Biological Mass Spectrometer Block II (CBMS II)	N/A	6665-12-340-3642	MM2400/5-15-18601	N/A	TACOM-RI		9
Chemical Biological Networked Early Warning System (CBNEWS)	N/A	N/A	N/A	N/A	N/A		N/A
Joint Chemical	N/A	N/A	N/A	N/A	N/A		N/A

	Surface Detector (JCSD)						
	Joint Services Lightweight Standoff Chemical Agent Detector (JLSCAD)	N/A	6665-01-475-6787	10214-1000-02/10214-1015-02/10214-1505	N/A	TACOM-RI	2
	Kits						
	M182 Chemical Agent Automatic Mounting Kit	M182	6665-00-110-9492	5-15-5300	M78317	TACOM-RI	2
	M228 Chemical Agent Automatic Alarm Mounting Kit	M228	6665-00-859-2212	5-15-5600	M78314	TACOM-RI	2
	M8A1 Automatic Chemical Agent Alarm (ACAA)	M8A1	6665-01-105-5623	5-15-8800	A32355	TACOM-RI	7
	M21 Remote Sensing Chemical Agent Alarm (RSCAAL)	M21	6665-01-324-6637	5-15-10503	A32638	TACOM-RI	7
	M140 Chemical Agent Automatic Alarm Test Set	M140	6665-01-083-2749	5-15-8200	T70627	TACOM-RI	7
4	Decontamination Products						
	Agents						
	High-Test Hypochlorite (HTH) - 6 oz/25 lbs/100 lbs	N/A	6810-00-255-0471/6810-01-225-2682/6810-00-255-0472	N/A	N/A	DLA	3
	M100 Sorbent Decon System (SDS)	M100	4230-01-466-9095	EA-PRF-2163	N/A	TACOM-RI	2
	Reactive Skin Decontaminant Lotion (SDL)	N/A	6505-01-507-5074/6910-01-507-5141	03-881/03-0882	N/A	DLA	8
	Super Tropical Bleach (STB)	N/A	6850-00-297-6653	N/A	N/A	DLA	3
	Kits						
	M8 Paper, Chemical Agent Detector	M8	6665-00-050-8529	5-67-266	N/A	TACOM-RI	2
	M9 Paper, Chemical Agent Detector	M9	6665-01-226-5589	5-67-280	N/A	TACOM-RI	2
	M291 Skin Decontamination Kit	M291	6505-01-276-1905	5-77-2301/5-77-2305	N/A	TACOM-RI	2

M295 Individual Equipment Decontamination Kit	M295	6850-01-357-8456	5-77-3201	N/A	TACOM-RI	2
Power						
A/E 32U-8 Portable Power Driven Decontaminating Apparatus	A/E 32U-8	4230-01-153-8660	26000-100	D82404	TACOM-RI	7
Joint Service Transportable Decontamination System – Small Scale (JSTDS-SS)	N/A	4230-01-555-0686	91001-100	N/A	TACOM-RI	7
Kärcher MultiPurpose Decontamination System (MPDS) - Power	N/A	4230-01-514-1371	MFG1713	N/A	USMC	7
M12A1 500 Gallon Skid-Mounted Power Driven Decontaminating	M12A1	4230-00-926-9488	D5-45-3264	F81880	TACOM-RI	7
M12A1 DED	M12A1	4230-01-502-7224	5-45-8483/5-45-3264-20	F81880	TACOM-RI	7
M17 Series Decon Apparatus	M17	4230-01-251-8702	5-45-5299-10	D82404	TACOM-RI	7
M17A1 Series Decon Apparatus	M17A1	4230-01-303-5225	5-45-5299-20	D82404	TACOM-RI	7
M17A2 Series Decon Apparatus	M17A2	4230-01-346-1778	5-45-5299-30	D82404	TACOM-RI	7
M17A3 Series Decon Apparatus	M17A3	4230-01-346-3122	5-45-5299-40	D82404	TACOM-RI	7
5 Guardian Products						
Detection Systems						
Battlefield Anti-Intrusion System (BAIS)	N/A	6350-01-512-7177	AN/PRS-9 K10048842-501 K10048842-503	N/A	CECOM	7
Integrated Commercial Intrusion Detection System (ICIDS)	N/A	N/A	N/A	N/A	N/A	N/A
Mobile Detection Assessment and Response System (MDARS)	N/A	N/A	N/A	N/A	N/A	N/A
Installation Protection Program (IPP)						
Analytical Laboratory System	N/A	N/A	N/A	N/A	N/A	7

	(ALS)						
	Unified Command Suite (UCS)	N/A	N/A	N/A	N/A	N/A	7
6	Individual Protection Products						
	Filters						
	C2/ C2A1 Filter	C2/C2A1	4240-01-361-1319	5-3-120	N/A	TACOM-RI	9
	M50 Series Filter	M50	4240-01-529-2289	8680-710-01-271024/1	N/A	TACOM-RI	9
	Masks						
	A/P22P-14V Respirator Assembly (A/P22P)	A/P22P-14(V)	N/A	N/A	N/A	N/A	N/A
	Aircrew Eye Respirator Protection (AERP)	MBU-19/P	N/A	N/A	N/A	N/A	N/A
	MCU-2/P Protective Mask - small	MCU-2/P	4240-01-175-3433	864-01-1	N/A	Air Force	7
	MCU-2/P Protective Mask - medium	MCU-2/P	4240-01-175-3444	864-01-2	N/A	Air Force	7
	MCU-2/P Protective Mask	MCU-2/P	4240-01-175-3445	864-01-3	N/A	Air Force	7
	M20 Breathing Apparatus, Oxygen -Generating	M20	4240-00-678-5263	MIL-B-51254	C19640	TACOM-RI	2
	M40A1 Chemical Biological Masks - small	M40A1	4240-01-370-3821	5-1-2740-10	M12418/M18526	TACOM-RI	7
	M40A1 Chemical Biological Masks - medium	M40A1	4240-01-370-3822	5-1-2740-20	M12418/M18526	TACOM-RI	7
	M40A1 Chemical Biological Masks - large	M40A1	4240-01-370-3823	5-1-2740-30	M12418/M18526	TACOM-RI	7
	M42A2 Chemical Biological Masks - small	M42A2	4240-01-413-4100	5-1-3328-10	M12418/M18526	TACOM-RI	7
	M42A2 Chemical Biological Masks - medium	M42A2	4240-01-413-4101	5-1-3328-20	M12418/M18526	TACOM-RI	7
	M42A2 Chemical Biological Masks - large	M42A2	4240-01-413-4102	5-1-3328-30	M12418/M18526	TACOM-RI	7
	M48 Apache Aviator Chemical Biological Protective Mask - small	M48	4240-01-386-0198	5-1-3300-10	M13515	TACOM-RI	7
	M48 Apache Aviator Chemical	M48	4240-01-386-4686	5-1-3300-20	M13515	TACOM-RI	7

	Biological Protective Mask - medium						
	M48 Apache Aviator Chemical Biological Protective Mask - large	M48	4240-01-386-0201	5-1-3300-30	M13515	TACOM-RI	7
	M48 Apache Aviator Chemical Biological Protective Mask - x-large	M48	4240-01-386-0207	5-1-3300-40	M13515	TACOM-RI	7
	M45 Land Warrior Chemical-Biological Mask - x-small	M45	4240-01-447-6989	5-1-2800-50	M12736	TACOM-RI	7
	M45 Land Warrior Chemical-Biological Mask - small	M45	4240-01-447-6987	5-1-2800-60	M12736	TACOM-RI	7
	M45 Land Warrior Chemical-Biological Mask - medium	M45	4240-01-447-8967	5-1-2800-70	M12736	TACOM-RI	7
	M45 Land Warrior Chemical-Biological Mask - large	M45	4240-01-447-6988	5-1-2800-80	M12736	TACOM-RI	7
	M45 Air Crew Chemical-Biological Mask - x-small	M45	4240-01-414-4034	5-1-2800-10	M12736	TACOM-RI	7
	M45 Air Crew Chemical-Biological Mask - small	M45	4240-01-414-4035	5-1-2800-20	M12736	TACOM-RI	7
	M45 Air Crew Chemical-Biological Mask - medium	M45	4240-01-414-4051	5-1-2800-30	M12736	TACOM-RI	7
	M45 Air Crew Chemical-Biological Mask - large	M45	4240-01-414-4052	5-1-2800-40	M12736	TACOM-RI	7
	Self-Contained Breathing Apparatus (SCBA)	N/A	4240-01-449-1526	8-1-821-1	B20095	TACOM-RI	2
	M50 Joint Service General Purpose Mask (JSGPM) (Land Warrior) - small	M50	4240-01-512-4431	5-1-3526-10	M12986	TACOM-RI	2
	M50 Joint Service General Purpose	M50	4240-01-512-4434	5-1-3526-20	M12986	TACOM-RI	2

Mask (JSGPM) (Land Warrior) - medium							
M50 Joint Service General Purpose Mask (JSGPM) (Land Warrior) - large	M50	4240-01- 512-4437	5-1-3526-30	M12986	TACOM-RI	2	
M51 Joint Service General Purpose Mask (JSGPM) (Combat Vehicle) - small	M51	4240-01- 512-4429	5-1-3527-10	M12986	TACOM-RI	2	
M51 Joint Service General Purpose Mask (JSGPM) (Combat Vehicle) - medium	M51	4240-01- 512-4435	5-1-3527-20	M12986	TACOM-RI	2	
M51 Joint Service General Purpose Mask (JSGPM) (Combat Vehicle) - large	M51	4240-01- 512-4436	5-1-3527-30	M12986	TACOM-RI	2	
M52 Joint Service Chemical Environment Survivability Mask (JSCESM)	M52	4240-01- 517-8455	5-1-3530	N/A	TACOM-RI	2	
M53 Joint Service General Purpose Mask (JSGPM) (Special Operations Variant)- Right Canister Mount - x- small	M53	4240-01- 526-2163	5-1-3529-20	N/A	TACOM-RI	2	
M53 Joint Service General Purpose Mask (JSGPM) (Special Operations Variant)- Right Canister Mount - small	M53	4240-01- 526-3293	5-1-3529-40	N/A	TACOM-RI	2	
M53 Joint Service General Purpose Mask (JSGPM) (Special Operations Variant)- Right Canister Mount - medium	M53	4240-01- 526-2164	5-1-3529-60	N/A	TACOM-RI	2	
M53 Joint Service General Purpose Mask (JSGPM)	M53	4240-01- 526-2168	5-1-3529-80	N/A	TACOM-RI	2	

(Special Operations Variant)- Right Canister Mount - large							
M53 Joint Service General Purpose Mask (JSGPM) (Special Operations Variant)- Left Canister Mount - x-small	M53	4240-01-526-2166	5-1-3529-10	N/A	TACOM-RI	2	
M53 Joint Service General Purpose Mask (JSGPM) (Special Operations Variant)- Left Canister Mount - small	M53	4240-01-526-2167	5-1-3529-30	N/A	TACOM-RI	2	
M53 Joint Service General Purpose Mask (JSGPM) (Special Operations Variant)- Left Canister Mount - medium	M53	4240-01-526-2165	5-1-3529-50	N/A	TACOM-RI	2	
M53 Joint Service General Purpose Mask (JSGPM) (Special Operations Variant)- Left Canister Mount - large	M53	4240-01-526-2169	5-1-3529-70	N/A	TACOM-RI	2	
Joint Service Aircrew Mask (JSAM)	N/A	N/A	N/A	N/A	N/A	N/A	
Over- Garments							
Alternative Footwear Solution (AFS) And Integrated Footwear Solution (IFS) - x-small	N/A	8430-01-553-6290	N/A	P38389	DLA	2	
Alternative Footwear Solution (AFS) And Integrated Footwear Solution (IFS) - small	N/A	8430-01-536-5413	N/A	P38389	DLA	2	
Alternative Footwear Solution	N/A	8430-01-536-5415	N/A	P38389	DLA	2	

(AFS) And Integrated Footwear Solution (IFS) - medium						
Alternative Footwear Solution (AFS) And Integrated Footwear Solution (IFS) - large	N/A	8430-01-536-5416	N/A	P38389	DLA	2
Alternative Footwear Solution (AFS) And Integrated Footwear Solution (IFS) - x-large	N/A	8430-01-536-5419	N/A	P38389	DLA	2
Alternative Footwear Solution (AFS) And Integrated Footwear Solution (IFS) - 2x-large	N/A	8430-01-553-6283	N/A	P38389	DLA	2
Green/Black Vinyl Overboots (GVO/BVO) - Size 3	N/A	8430-01-048-6305	8430-01-317-3374	N39848	DLA	2
Green/Black Vinyl Overboots (GVO/BVO) - Size 4	N/A	8430-01-048-6306	8430-01-317-3375	N39848	DLA	2
Green/Black Vinyl Overboots (GVO/BVO) - Size 5	N/A	8430-01-049-0878	8430-01-317-3376	N39848	DLA	2
Green/Black Vinyl Overboots (GVO/BVO) - Size 6	N/A	8430-01-049-0879	8430-01-317-3377	N39848	DLA	2
Green/Black Vinyl Overboots (GVO/BVO) - Size 7	N/A	8430-01-049-0880	8430-01-317-3378	N39848	DLA	2
Green/Black Vinyl Overboots (GVO/BVO) - Size 8	N/A	8430-01-049-0881	8430-01-317-3379	N39848	DLA	2
Green/Black Vinyl Overboots (GVO/BVO) - Size 9	N/A	8430-01-049-0882	8430-01-317-3380	N39848	DLA	2
Green/Black Vinyl Overboots (GVO/BVO) - Size 10	N/A	8430-01-049-0883	8430-01-317-3381	N39848	DLA	2
Green/Black Vinyl	N/A	8430-01-	8430-01-317-	N39848	DLA	2

Overboots (GVO/BVO) - Size 11		049-0884	3382			
Green/Black Vinyl Overboots (GVO/BVO) - Size 12	N/A	8430-01-049-0885	8430-01-317-3383	N39848	DLA	2
Green/Black Vinyl Overboots (GVO/BVO) - Size 13	N/A	8430-01-049-0886	8430-01-317-3384	N39848	DLA	2
Green/Black Vinyl Overboots (GVO/BVO) - Size 14	N/A	8430-01-049-0887	8430-01-317-3385	N39848	DLA	2
Joint Service Lightweight Integrated Technology (JSLIST) Ensemble						
Woodland Coats - S/Xshort	N/A	8415-01-444-1163	8415-01-444-5902	J26086	DLA	2
Woodland Coats - S/Short	N/A	8415-01-444-1169	8415-01-444-5905	J26086	DLA	2
Woodland Coats - M/Short	N/A	8415-01-444-1200	8415-01-444-5913	J26086	DLA	2
Woodland Coats - M/Reg	N/A	8415-01-444-1238	8415-01-444-5926	J26086	DLA	2
Woodland Coats - M/Long	N/A	8415-01-444-1249	8415-01-444-6116	J26086	DLA	2
Woodland Coats - L/Reg	N/A	8415-01-444-1265	8415-01-444-6138	J26086	DLA	2
Woodland Coats - L/Long	N/A	8415-01-444-1270	8415-01-444-6131	J26086	DLA	2
Woodland Coats - XL/Reg	N/A	8415-01-509-8296	8415-01-509-8314	J26086	DLA	2
Woodland Coats - XL/Long	N/A	8415-01-505-1241	8415-01-505-1616	J26086	DLA	2
Woodland Coats - 2XL/Long	N/A	8415-01-505-1245	8415-01-505-1622	J26086	DLA	2
Woodland Coats - 3XL/Long	N/A	8415-01-506-7546	8415-01-506-7710	J26086	DLA	2
Desert Coats - S/Xshort	N/A	8415-01-444-5902	PD 97-04/MIL-DTL-32102	J26018	DLA	2
Desert Coats - S/Short	N/A	8415-01-444-5905	PD 97-04/MIL-DTL-32102	J26018	DLA	2
Desert Coats - M/Short	N/A	8415-01-444-5913	PD 97-04/MIL-DTL-32102	J26018	DLA	2
Desert Coats - M/Reg	N/A	8415-01-444-5926	PD 97-04/MIL-DTL-32102	J26018	DLA	2
Desert Coats - M/Long	N/A	8415-01-444-6116	PD 97-04/MIL-DTL-32102	J26018	DLA	2
Desert Coats - L/Reg	N/A	8415-01-444-6138	PD 97-04/MIL-DTL-32102	J26018	DLA	2

	Desert Coats - L/Long	N/A	8415-01- 444-6131	PD 97-04/MIL- DTL-32102	J26018	DLA	2
	Desert Coats - XL/Reg	N/A	8415-01- 509-8314	PD 97-04/MIL- DTL-32102	J26018	DLA	2
	Desert Coats - XL/Long	N/A	8415-01- 505-1616	PD 97-04/MIL- DTL-32102	J26018	DLA	2
	Desert Coats - 2XL/Long	N/A	8415-01- 505-1622	PD 97-04/MIL- DTL-32102	J26018	DLA	2
	Desert Coats - 3XL/Long	N/A	8415-01- 506-7710	PD 97-04/MIL- DTL-32102	J26018	DLA	2
	Trousers:						
	S/XSHT	N/A	8415-01- 444-1435	8415-01-444- 5417	J38826/J26068	DLA	2
	S/SHT	N/A	8415-01- 444-1439	8415-01-444- 5504	J38826/J26068	DLA	2
	M/SHT	N/A	8415-01- 444-1613	8415-01-444- 5506	J38826/J26068	DLA	2
	M/REG	N/A	8415-01- 444-2310	8415-01-444- 5893	J38826/J26068	DLA	2
	M/LNG	N/A	8415-01- 444-2308	8415-01-444- 5892	J38826/J26068	DLA	2
	L/REG	N/A	8415-01- 444-2325	8415-01-444- 5898	J38826/J26068	DLA	2
	L/LNG	N/A	8415-01- 444-2338	8415-01-444- 5900	J38826/J26068	DLA	2
	XL/REG	N/A	8415-01- 509-8265	8415-01-509- 8269			
	XL/LNG	N/A	8415-01- 505-1274	8415-01-505- 1567			
	2XL/LNG	N/A	8415-01- 505-1277	8415-01-505- 1591			
	3XL/LNG	N/A	8415-01- 506-7698	8415-01-506- 7713			
	Joint Block 1 Glove Upgrade Program (JB1GU)						
	Gloves:						
	S Glove Set -	N/A	8415-20- 001-3661	N/A	N/A	DLA	2
	S Glove Shell -	N/A	8415-20- 001-4453	N/A	N/A	DLA	2
	- S Glove Insert	N/A	8415-20- 00-3657	N/A	N/A	DLA	2
	M Glove Set -	N/A	8415-20- 001-3662	N/A	N/A	DLA	2
	M Glove Shell -	N/A	8415-20- 001-3653	N/A	N/A	DLA	2
	- M Glove Insert	N/A	8415-20- 001-3658	N/A	N/A	DLA	2
	Glove Set - L	N/A	8415-20- 001-3663	N/A	N/A	DLA	2
	L Glove Shell -	N/A	8415-20- 001-3654	N/A	N/A	DLA	2
	Glove Insert	N/A	8415-20-	N/A	N/A	DLA	2

- L			001-3659				
XL	Glove Set -	N/A	8415-20-001-3664	N/A	N/A	DLA	2
XL	Glove Shell -	N/A	8415-20-001-3655	N/A	N/A	DLA	2
- XL	Glove Insert	N/A	8415-20-001-3660	N/A	N/A	DLA	2
Joint Block 2 Glove Upgrade Program (JB2GU)							
	Small	N/A	8415-21-921-2165	N/A	N/A	DLA	2
	Small-Narrow	N/A	8415-21-921-2163	N/A	N/A	DLA	2
	Medium	N/A	8415-21-921-2167	N/A	N/A	DLA	2
	Medium-Narrow	N/A	8415-21-921-2166	N/A	N/A	DLA	2
	Large	N/A	8415-21-921-2170	N/A	N/A	DLA	2
	Large-Narrow	N/A	8415-21-921-2169	N/A	N/A	DLA	2
	X-Large	N/A	8415-21-921-2172	N/A	N/A	DLA	2
	X-Large-Narrow	N/A	8415-21-921-2171	N/A	N/A	DLA	2
Gloves, Chemical Protective 7 MIL, 14 MIL, 25 MIL							
	Small (7 MIL)	N/A	N/A	8415-01-138-2501	N/A	N/A	2
	Medium (7 MIL)	N/A	N/A	8415-01-138-2502	N/A	N/A	2
	Large (7 MIL)	N/A	N/A	8415-01-138-2503	N/A	N/A	2
	X-Large (7 MIL)	N/A	N/A	8415-01-138-2504	N/A	N/A	2
	Small (14 MIL)	N/A	N/A	8415-01-138-2497	N/A	N/A	2
	Medium (14 MIL)	N/A	N/A	8415-01-138-2498	N/A	N/A	2
	Large (14 MIL)	N/A	N/A	8415-01-138-2499	N/A	N/A	2
	X-Large (14 MIL)	N/A	N/A	8415-01-138-2500	N/A	N/A	2
	X-Small (25 MIL)	N/A	N/A	8415-01-144-1862	N/A	N/A	2
	Small (25 MIL)	N/A	N/A	8415-01-033-3517	N/A	N/A	2
	Medium (25 MIL)	N/A	N/A	8415-01-033-3518	N/A	N/A	2
	Large (25 MIL)	N/A	N/A	8415-01-033-3519	N/A	N/A	2
	X-Large (25 MIL)	N/A	N/A	8415-01-033-	N/A	N/A	2

	MIL)			3220			
	Multipurpose Over Boot Program (MULO)						
	Size 3	N/A	8430-01-464-9453	2-1-2039-3	N/A	DLA	2
	Size 4	N/A	8430-01-464-9458	2-1-2039-4	N/A	DLA	2
	Size 5	N/A	8430-01-464-9459	2-1-2039-5	N/A	DLA	2
	Size 6	N/A	8430-01-464-9461	2-1-2039-6	N/A	DLA	2
	Size 7	N/A	8430-01-464-9462	2-1-2039-7	N/A	DLA	2
	Size 8	N/A	8430-01-464-9464	2-1-2039-8	N/A	DLA	2
	Size 9	N/A	8430-01-464-9474	2-1-2039-9	N/A	DLA	2
	Size 10	N/A	8430-01-464-9475	2-1-2039-10	N/A	DLA	2
	Size 11	N/A	8430-01-464-9477	2-1-2039-11	N/A	DLA	2
	Size 12	N/A	8430-01-464-9480	2-1-2039-12	N/A	DLA	2
	Size 13	N/A	8430-01-464-9479	2-1-2039-13	N/A	DLA	2
	Size 14	N/A	8430-01-464-9484	2-1-2039-14			
	Multipurpose Protective Sock Program (MPS)	N/A	N/A	N/A	N/A	N/A	2
	Protective Suits						
	Improved Toxicological Agent Protective (ITAP) Ensemble - small	N/A	8415-01-463-7151	C5P9D0400-1	N/A	TACOM-RI	2
	Improved Toxicological Agent Protective (ITAP) Ensemble - medium	N/A	8415-01-463-7150	C5P9D0400-2	N/A	TACOM-RI	2
	Improved Toxicological Agent Protective (ITAP) Ensemble - large	N/A	8415-01-463-5829	C5P9D0400-3	N/A	TACOM-RI	2
	Improved Toxicological Agent Protective (ITAP) Ensemble - x-large	N/A	8415-01-463-5830	C5P9D0400-4	N/A	TACOM-RI	2
	Joint Firefighter Integrated						

Response Ensemble (JFIRE)							
Coats: See JSLIST Woodland Coats							
Joint Protective Air Crew Ensemble (JPACE)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Self-Contained Toxic Environment Protective Outfit (STEPO) -small	N/A	8415-01-452-6772	8-1-491-1	S58144	TACOM-RI	2	
Self-Contained Toxic Environment Protective Outfit (STEPO) - medium	N/A	8415-01-452-8631	8-1-491-2	S58144	TACOM-RI	2	
Self-Contained Toxic Environment Protective Outfit (STEPO) - large	N/A	8415-01-454-1627	8-1-491-3	S58144	TACOM-RI	2	
Self-Contained Toxic Environment Protective Outfit (STEPO) - x-large	N/A	8415-01-452-8629	8-1-491-4	S58144	TACOM-RI	2	
Suit Contamination Avoidance Liquid Protection (SCALP) - small	N/A	8415-01-364-3320	8415-01-333-0987	C20369	DLA	2	
Suit Contamination Avoidance Liquid Protection (SCALP) - medium/large	N/A	8415-01-364-3321	8415-01-333-0998	C20369	DLA	2	
Suit Contamination Avoidance Liquid Protection (SCALP) - x-large/xx-large	N/A	8415-01-364-3322	8415-01-333-0989	C20369	DLA	2	
Footwear Covers - small	N/A	8415-01-364-3458	8415-01-333-0990	C80245	DLA	2	
Footwear Covers - medium	N/A	8415-01-364-3459	8415-01-333-0991	C80245	DLA	2	
Footwear Covers - large	N/A	8415-01-364-3460	8415-01-333-0992	C80245	DLA	2	
Testers							
M14 Mask Leakage Tester	M14	6665-00-911-3552	136-42-750-0	W03346	DLA	7	
M41 Protection Assessment Test System (PATS)	M41	4240-01-365-8241	5-1-3326	T62350	TACOM-RI	7	
Joint Services Mask leakage Tester (JSMLT)	M46	6665-01-506-9002	03001A0001	N/A	Air Force/USMC	N/A	
Under- Garments							

Chemical Protective Undershirt (CPU) - size 32	N/A	8415-01-363-8692	CN/PD 02-01	N/A	DLA	2
Chemical Protective Undershirt (CPU) - size 34	N/A	8415-01-363-8693	CN/PD 02-01	N/A	DLA	2
Chemical Protective Undershirt (CPU) - size 36	N/A	8415-01-363-8694	CN/PD 02-01	N/A	DLA	2
Chemical Protective Undershirt (CPU) - size 38	N/A	8415-01-363-8695	CN/PD 02-01	N/A	DLA	2
Chemical Protective Undershirt (CPU) - size 40	N/A	8415-01-363-8696	CN/PD 02-01	N/A	DLA	2
Chemical Protective Undershirt (CPU) - size 42	N/A	8415-01-363-8697	CN/PD 02-01	N/A	DLA	2
Chemical Protective Undershirt (CPU) - size 44	N/A	8415-01-363-8698	CN/PD 02-01	N/A	DLA	2
Chemical Protective Undershirt (CPU) - size 46	N/A	8415-01-363-8699	CN/PD 02-01	N/A	DLA	2
Chemical Protective Undershirt (CPU) - size 48	N/A	8415-01-363-8700	CN/PD 02-01	N/A	DLA	2
Chemical Protective Undershirt (CPU) - size 50	N/A	8415-01-488-5715	CN/PD 02-01	N/A	DLA	2
Chemical Protective Undershirt (CPU) - size 52	N/A	8415-01-488-5717	CN/PD 02-01	N/A	DLA	2
Chemical Protective Undershirt (CPU) - size 54	N/A	8415-01-488-5716	CN/PD 02-01	N/A	DLA	2
Drawers, Chemical Protective Undergarment (CPU) - 26 inch	N/A	8415-01-363-8683	CN/PD 02-01	N/A	DLA	2
Drawers, Chemical	N/A	8415-01-363-8684	CN/PD 02-01	N/A	DLA	2

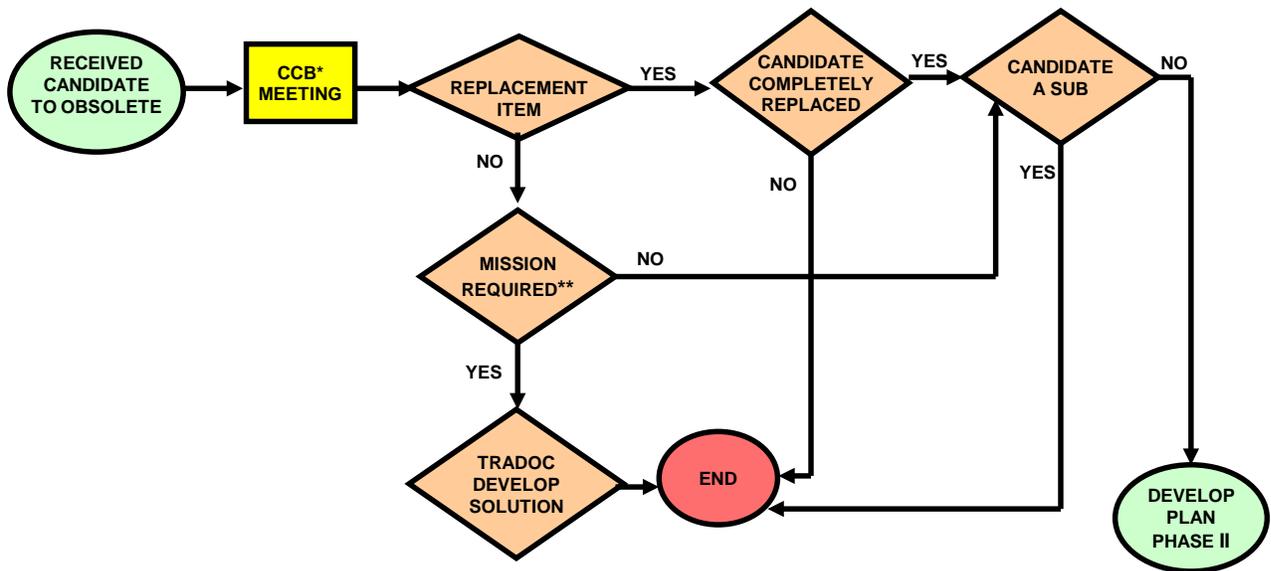
Protective Undergarment (CPU) - 28 inch							
Drawers, Chemical Protective Undergarment (CPU) - 30 inch	N/A	8415-01-363-8685	CN/PD 02-01	N/A	DLA	2	
Drawers, Chemical Protective Undergarment (CPU) - 32 inch	N/A	8415-01-363-8686	CN/PD 02-01	N/A	DLA	2	
Drawers, Chemical Protective Undergarment (CPU) - 34 inch	N/A	8415-01-363-8687	CN/PD 02-01	N/A	DLA	2	
Drawers, Chemical Protective Undergarment (CPU) - 36 inch	N/A	8415-01-363-8688	CN/PD 02-01	N/A	DLA	2	
Drawers, Chemical Protective Undergarment (CPU) - 38 inch	N/A	8415-01-363-8689	CN/PD 02-01	N/A	DLA	2	
Drawers, Chemical Protective Undergarment (CPU) - 40 inch	N/A	8415-01-363-8690	CN/PD 02-01	N/A	DLA	2	
Drawers, Chemical Protective Undergarment (CPU) - 42 inch	N/A	8415-01-363-8691	CN/PD 02-01	N/A	DLA	2	
Drawers, Chemical Protective Undergarment (CPU) - 44 inch	N/A	8415-01-488-5719	CN/PD 02-01	N/A	DLA	2	
Drawers, Chemical Protective Undergarment (CPU) - 46 inch	N/A	8415-01-488-5722	CN/PD 02-01	N/A	DLA	2	
Drawers, Chemical Protective Undergarment (CPU) - 48 inch	N/A	8415-01-488-5720	CN/PD 02-01	N/A	DLA	2	
Socks, Chemical Protective - Extra	N/A	8415-01-509-2875	CN/PD 02-01	N/A	DLA	2	

	small						
	Socks, Chemical Protective - Small	N/A	8415-01-509-2877	CN/PD 02-01	N/A	DLA	2
	Socks, Chemical Protective - Medium	N/A	8415-01-509-2879	CN/PD 02-01	N/A	DLA	2
	Socks, Chemical Protective - Large	N/A	8415-01-509-2882	CN/PD 02-01	N/A	DLA	2
	Socks, Chemical Protective - Extra large	N/A	8415-01-509-2883	CN/PD 02-01	N/A	DLA	2
	Undershirt - Microclimate Pass-Thru (MCP) Undershirt - size 32	N/A	8415-01-497-7963	CN/PD 02-01	N/A	DLA	2
	Undershirt - Microclimate Pass-Thru (MCP) Undershirt - size 34	N/A	8415-01-497-7966	CN/PD 02-01	N/A	DLA	2
	Undershirt - Microclimate Pass-Thru (MCP) Undershirt - size 36	N/A	8415-01-497-7967	CN/PD 02-01	N/A	DLA	2
	Undershirt - Microclimate Pass-Thru (MCP) Undershirt - size 38	N/A	8415-01-497-7969	CN/PD 02-01	N/A	DLA	2
	Undershirt - Microclimate Pass-Thru (MCP) Undershirt - size 40	N/A	8415-01-497-7975	CN/PD 02-01	N/A	DLA	2
	Undershirt - Microclimate Pass-Thru (MCP) Undershirt - size 42	N/A	8415-01-497-7976	CN/PD 02-01	N/A	DLA	2
	Undershirt - Microclimate Pass-Thru (MCP) Undershirt - size 44	N/A	8415-01-497-7977	CN/PD 02-01	N/A	DLA	2
	Undershirt - Microclimate Pass-Thru (MCP) Undershirt - size 46	N/A	8415-01-497-7978	CN/PD 02-01	N/A	DLA	2
	Undershirt - Microclimate Pass-Thru (MCP) Undershirt - size 48	N/A	8415-01-497-7980	CN/PD 02-01	N/A	DLA	2
	Undershirt - Microclimate Pass-Thru (MCP) Undershirt - size 50	N/A	8415-01-497-7982	CN/PD 02-01	N/A	DLA	2
	Undershirt - Microclimate Pass-Thru (MCP) Undershirt - size 52	N/A	8415-01-497-7983	CN/PD 02-01	N/A	DLA	2

	Undershirt - Microclimate Pass-Thru (MCP) Undershirt - size 54	N/A	8415-01-497-7984	CN/PD 02-01	N/A	DLA	2
7	Information Systems Products						
	JWARN Component Interface Device (JCID)	N/A	N/A	N/A	N/A	JPM-Info Systems	N/A
	Joint Effects Model (JEM)	N/A	N/A	N/A	N/A	JPM-Info Systems	N/A
	Joint Operational Effects Federation (JOEF)	N/A	N/A	N/A	N/A	JPM-Info Systems	N/A
	Joint Warning and Reporting Network (JWARN)	N/A	N/A	N/A	N/A	JPM-Info Systems	N/A
8	Medical Systems Products						
	Atropine Auto Injector (Atropen) 0.7ML	N/A	6505-00-926-9083	11704-101-01	N/A	DLA	8
	Chemical Protective Sleeping Bag, Patient Wrap and Litter	N/A	6530-01-383-6260	N/A	N/A	DLA	8
	Ciprofloxacin 500 MG Tab 100s BTL+	N/A	6505-01-333-4154	N/A	N/A	DLA	8
	Cyanide Antidote Treatment Kit W/AMYL Nitrate Syringe Needles 22S	N/A	6505-01-143-4641	11098-507-01	N/A	DLA	8
	Doxycycline Hyclate Tablets 100 MG, 500s +	N/A	6505-01-153-4335	61717	N/A	DLA	8
	Nerve Agent Antidote Kit (Mark 1/NAAK)	N/A	6505-01-174-9919	11704-101-01	N/A	DLA	8
	Pralidoxime Chloride Autoinjector	N/A	6505-01-125-3248	11704-620-01	N/A	DLA	8
	Pyridostigmine Bromide Tabs USP 30MG I.S. (SNAPP)	N/A	6505-01-178-7903	N/A	N/A	DLA	8
	Skin Exposure Reduction Paste Against Chemical Warfare Agents (SERPACWA)	N/A	6505-01-483-7162	N/A	N/A	DLA	8

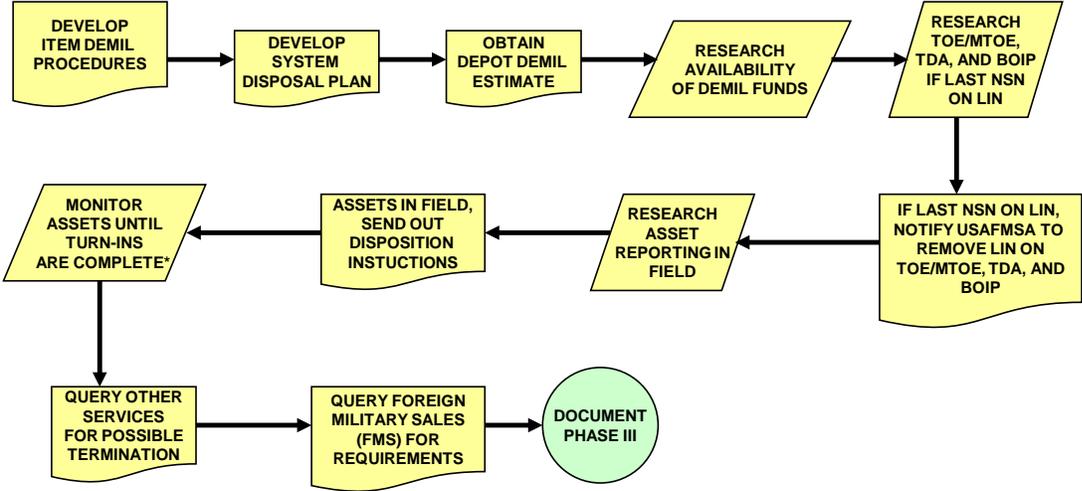
Appendix D - Obsolete Item Process Flow

CBRN Handbook Obsolete NSN Decision Process Flowchart Phase I



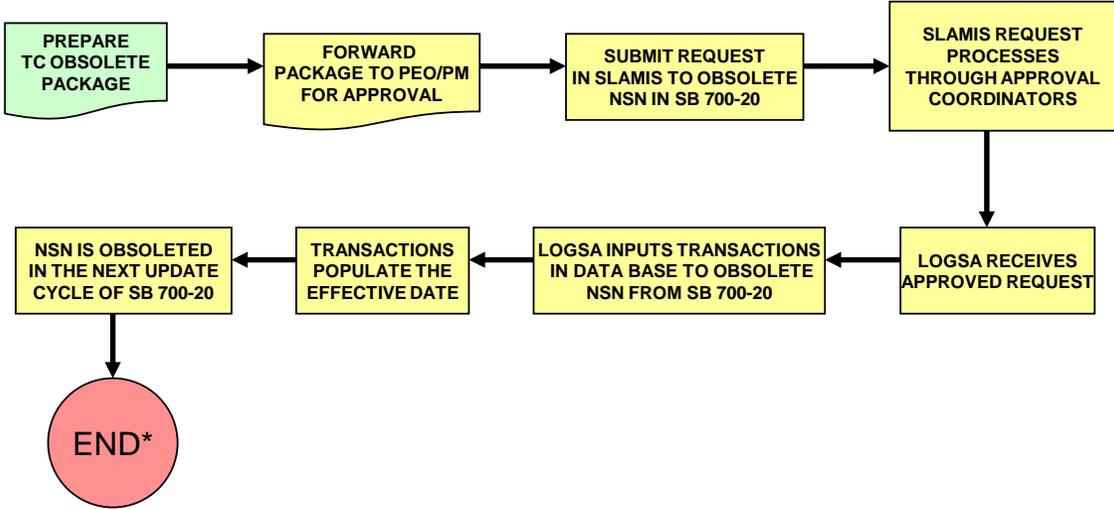
* CONFIGURATION CONTROL BOARD (CCB), HQG8, TRADOC, FORSCOM, ENGINEERING, PEO/PM, LCMC.
 ** ADDRESSED IF LAST NSN LINKED TO SLIN.

**CBRN Handbook Obsolete NSN Required Documentation
Process Flowchart Phase II**



*CONSIDER DOWNGRADING TO LOGISTICAL CONTROL CODE C (CONTINGENCY) WHEN FIELD STILL NEEDS TO RETAIN. ITEMS TYPE CLASSIFIED CON MAY BE RETAINED FOR TRAINING OR AS MISSION ESSENTIAL CONTINGENCY ITEMS (MECI) UNTIL REPLACED BY STD ITEMS. THEY ARE MATERIEL ITEMS WHICH NO LONGER SATISFIES U.S. ARMY OPERATION REQUIREMENTS BUT WHICH HAVE RESIDUAL VALUE FOR USE IN TRAINING OR AS A MECI FOR RESERVE COMPONENTS.

**CBRN Handbook, Document Obsolete NSN
Process Flowchart Phase III**



*** NOTE: THIS PROCESS ADDRESSES OBSOLETING THE NSN FROM SB 700-20 ONLY WHICH IS REQUIRED PRIOR TO REMOVAL OF THE NSN FROM THE NSNMDR FILES. A SEPARATE PROCESS CAN NOW BE ENTERED FOR NSNS REQUIRING COMPLETE REMOVAL FROM THE NSNMDR FILES.**

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Appendix E - Useful Websites

Army Publishing Directorate: United States Army Publications
<http://www.apd.army.mil/>

Center for Army Lessons Learned: Tactical After Action Reviews, Guides and Information concerning in theater operations.
<http://usacac.army.mil/cac2/call/>

Chemical Casualty Care Division: Medical education in CBRNE, CME, and CEU.
<https://ccc.apgea.army.mil/>

Defense Imagery.mil: Contains multimedia products to include training aids.
<http://dodimagery.afis.osd.mil/davis/>

Defense Logistics Information Service (also includes FEDLOG): Supply chain data and logistics information technology.
<https://www.webflis.dlis.dla.mil/>

Defense Technical Information Center (DTIC): Central resource for DoD and government-funded scientific, technical, engineering and business related information.
<http://www.dtic.mil/dtic/>

DODAAC Lookup: Search for organizations DODAAC via organization name or zip code, or search for organization via DODAAC.
https://prodwww.drms.dla.mil/dodaaac_lookup/DodaaacLookup?dodaaac=SX1493

Edgewood Chemical Biological Center (ECBC): The nation's principal research and development center for non-medical chemical and biological defense.
<http://www.edgewood.army.mil/>

Federal Supply Classes: List of Federal Supply Classes
<https://www.drms.dla.mil/asset/fsclist.html>

Industrial Base Data Warehouse: a central source for Industrial Base information and tools to identify potential IB issues.
<https://vems.ria.army.mil/apps/IBDW/IBDWHome.cfm>

Information Handling Service (I H S – Haystack Gold):
<https://home.ria.army.mil/infohandsvcs/>

Joint Acquisition Chemical Biological Radiological Nuclear Knowledge System: The web based DoD knowledge management system for information related to the acquisition and support of CBRN defense products.
<https://jacks.jpocbd.osd.mil/>

Joint Program Executive Office for Chemical and Biological Defense
<http://www.jpeocbd.osd.mil/>

Logistics Information Warehouse (LOGSA): LOGSA Portal for Army Logistics. Contains numerous links and other logistics resources, including the Army's Technical (FEDLOG), Asset Visibility Requisition Status and Library links.
<https://liw.logsa.army.mil>

Logtool: Logistics ToolBox is the operational portal for logistics categorized by Service.
<http://logtool.net/>

The National Institute for Occupational Safety and Health (NIOSH): The federal agency responsible for conducting research and making recommendations for the prevention of work-related injury and illness.
<http://www.cdc.gov/niosh/>

Product Data Management System – ECBC PDMS
<https://pdm.apgea.army.mil/>

Responder Knowledge Base: Provides emergency responders, purchasers, and planners with an integrated, online source of information on products, standards, certifications, grants, and other equipment-related information.
<https://www.rkb.mipt.org/>

U.S. Army Center for Health Promotion and Preventive Medicine: Provides worldwide scientific expertise and services.
<http://chppm-www.apgea.army.mil/>

US Army Chemical, Biological, Radiological, and Nuclear School: Provides training to Joint and International Service members in CBRN.
http://www.wood.army.mil/wood_cms/usacbrns.shtml

US Army Chemical, Biological, Radiological, and Nuclear School – AKO

US Army Doctrine and Training Publications: Field Manuals and publications.
http://www.army.mil/usapa/doctrine/Active_FM.html

US Army materiel Command Logistics Web Portal: Army Electronic Product Support Network (AEPS).
<https://aeeps2.ria.army.mil>

US Army Medical Research Institute of Chemical Defense (USAMRICD): Army science and technology laboratory in the area of medical chemical countermeasures research and development
<http://chemdef.apgea.army.mil/>

U.S. Army TRADOC Analysis Center (TRAC): Research on potential military operations worldwide, developing future concepts and requirements. <http://www.trac.army.mil/index.asp>