

RECOVERED CHEMICAL RECOVERED CHEMICAL WARFARE MATERIEL MATERIEL DIRECTORATE RECOVERED CHEMICAL WARFARE MATERIEL

MORTARS



Chemical Application: Cartridge, M1, M2, M2A1 (pictured) Scheduled Chemical Fills: CG, CK, CNS. GA. H/HS. HD. HT. L. PS Other Fills: CNB, CNC, FM, FS, HE, WP



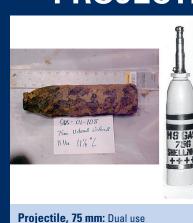
Mortar, 4-in.: Dual use **Chemical Application: Scheduled Chemical Fills** CG, H/HS, PG, PS Other Fills: FS, KJ, TH, WP



Mortar, 81 mm: Dual use Chemical Application: Mortar, M57

Other Fills: FS, HE, WP

PROJECTILES



Chemical Application: MK II (*pictured*), M64

Other Fills: BA, FM, FS, HE, WP

Projectile, 105 mm: Dual use **Chemical Application:** M360 (pictured), M60 Scheduled Chemical Fills: CG, H/HS **Scheduled Chemical Fills:** GB, H/HS, HD, L Other Fills: HE, WP



roiectile, 155 mm: Dual use Chemical Application: Projectile, Persistent, M104, M110 (*pictured*); Project ritzer M121, and M121A1; Artillery Shell n Steel Shell MK II, MK IIA1, and MK IIA Howitzer Chemical Shell M105 and M105 Other Fills: BA, CA, HE, NC, PS, WP Scheduled Chemical Fills: CG, NS. GB. H/HS. HD. PS. VX Other Fills: BA, CA, FM, FS, HE, NC, W



Chemical Application: German ojectiles, 75mm, 76mm, 105mm (picired) and 150mm Scheduled Chemical Fills: CG, CN, GA, H/HS, HS/PD Other Fills: None

MINES.



Chemical Application: Chemical Application: Chemical Land Mine, M23; M1 Chemical Land Mine look-alike M15 Anti-Tank Mine Scheduled Chemical Fill: H/HS Scheduled Chemical Fill: VX Other Fill: Molasses residiuum (tra Other Fill: HE (M15)

AC/HCN* Hydrogen Cyanide

Bromoacetone Berger mixture

Phosgene

Chlorine

3-quinuclidinyl benzilate

Bromobenzyl cyanide

Cyanogen chloride

Chloroacetophene

Carbontetrachloride

Diphenylchlorarsine

Titanium Tetrachloride

Tabun (non-persistent)

Sarin (non-persistent)

Levinstein Mustard

Distilled mustard

Nitrogen mustard

Incendiary Mixture

Phenyldichloroarsine

Stannic Chloride

Lewisite

H/HS*

HD*

PS

PWP

Soman (non-persistent)

Methylphosphonyldifluoride

10% CN + 45% Benzene + 45%

23% CN + 38.4% PS + 38.4% Chloroform

Sulfur Trioxide and Chlorosulfonic Acid

Zinc Oxide and Hexachloroethane

Chloropicrin and Stannic Chloride

Isopropyl Amine + Isopropyl alcohol

Magnesium paste based incendiary mixture

Chloropicrin/phosgene mixture

Plasticized White Phosphorus

O-Ethyl O-2-diisopropylamino

Nerve agent (persistent)

White Phosphorus

Recovered Chemical Warfare Materiel Poster/September 21, 2015

60% H + 40% bis (2 chloroethyl Thioethyl) Ether

Various explosive compounds



Land Mine: Single use Chemical Application: British Land Mine Scheduled Chemical Fills: HT Other Fill: None

FILL NOMENCLATURE

Blood

Lachrymator

Lachrymator

Choking

Choking

Lachrymator

Lachrymator

Vomiting

Vomiting

Smoke

Smoke

Smoke

Blister

Blister

Blister

Smoke

Blister Irritant

Blister

Incendiary

Incendiary

Incendiary

Binary Compound for GB

Irritant/lachrymator/vomiting

Irritant/lachrymator

Smoke/incendiary

Smoke/incendiary

Smoke/incendiary

Nerve agent

Binary precursor for VX

Nerve agent

Nerve agent

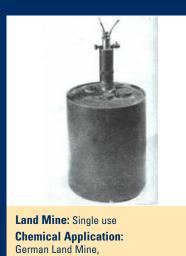
High explosive

Lachrymator/irritant

Binary precursor for GB

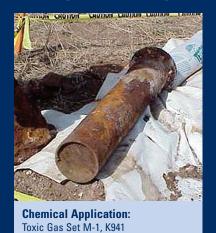
Blood

Incapacitating (Hallucinogen)



S" Mine a.k.a. "bouncing Betty" **Scheduled Chemical Fills:** HS, HS/PD Other Fill: None

CHEMICAL AGENT IDENTIFICATION SETS (CAIS)



H/HS, HD

Scheduled Chemical Fills: Other Fill: None



Chemical Application: Navy Sniff Set (K955) **Scheduled (dilute) Chemical** Fills: H/HS, HN1, HN3, L Other Fills: Simulated CG, CN,



Scheduled Chemical Fills:

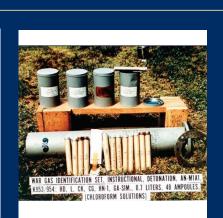
Other Fills: BM, FM, FS, HC, PT1, TH

CG, CL, NC, PS

Other Fill: None



lass Ampoules for CAIS Scheduled (dilute) Chemical Fills: CG, CK, H/HS, HN, L Other Fills: GA (simulated)

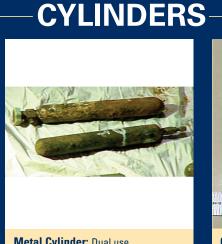


hemical Application: as Identification Set M1 K951/K952/K953/K954 Scheduled (dilute) Chemical Fills: CG, CK, H/HS, HN, L, PS Other Fill: GA (simulated)

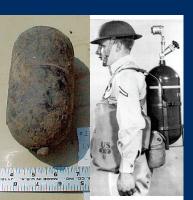
BOMBLETS







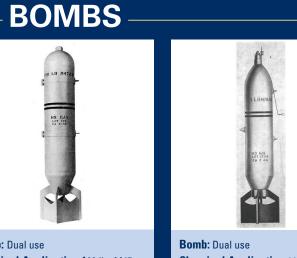
Metal Cylinder: Dual use Chemical Application: 1.5-in. diame hemical agent storage container Scheduled Chemical Fill: Any chemical agent Other Fill: Any military or commercial liquid



mical Application: 1A2 (pictured left), and M1A1 (pictured right) Scheduled Chemical Fill: CG Other Fills: CL, smoke mixture, ear agents

GB (M139 and M134), VX (E136)

Other Fills: None



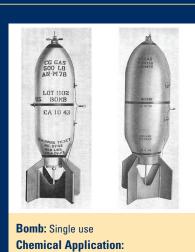
Bomb: Dual use **Chemical Application:**100 lb., M47, M47A2 (*pictured*), Navy 100 lb., MK 42 Scheduled Chemical Fills: H/HS Other Fills: IM, NP, PWP, WP experimental fills at APG-EA and DPG)



Chemical Application:115 lb., M70 (pictured) and M70A1: 125 lb. M113 Scheduled Chemical Fills: H/HS, L Other Fill: WP (Experimental fills at



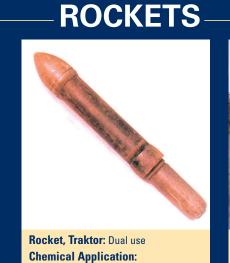
Chemical Application: Bomb 25 lb., 30 lb., M1 (pictured), M46, M46A2 Scheduled Chemical Fill: H/HS Other Fill: WP (Experimental fills at



500 lb., AN-M78, M79, 1,000 lb. **Scheduled Chemical Fills:** Other Fill: None

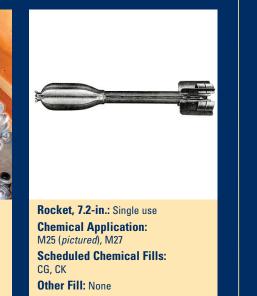


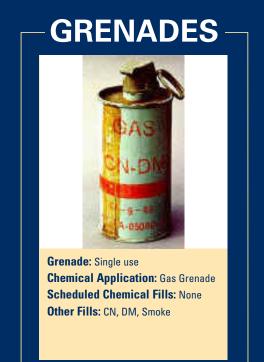
Chemical Application: German 250 kg. (pictured)/500 kg. bombs **Scheduled Chemical Fills:** CG, CN, DM, GA, HE, H/HS Other Fill: None



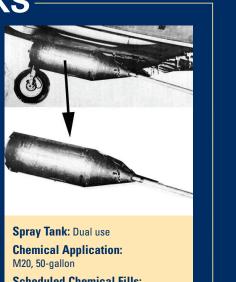
German Chemical Rocket, Type 41 **Scheduled Chemical Fills:** GA, H/HS, HN, L, PD Other Fills: DA Arsenol, Smoke mixture (fuming sulphuric acid)







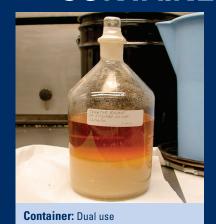




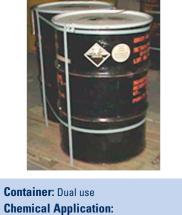
SPRAY TANKS



CONTAINERS, DRUMS



Chemical Application: Scheduled Chemical Fill: Any liquid chemical agent Any military or commercial liquid



cheduled Chemical Fills:

Other Fill: Any military or commercial

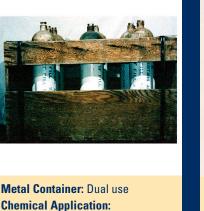
iguid, molasses residuum (training)



WWII Type A 55-gallon drum Scheduled Chemical Fill: Other Fills: Liquid smokes, cresylic acid, liquid riot control agents



Chemical Application: on Container: D-Type, E-Type **Scheduled Chemical Fill:** Scheduled Chemical Fill: Any chemcial agent Any chemical agent Other Fill: Other Fill: Any military or commercial liquid











* Denotes chemical compounds that are listed in the Chemical Weapons Convention





MOST COMMON RECOVERED CHEMICAL WARFARE MATERIEL