



Chemical Warfare Materiel

U.S. ARMY CHEMICAL MATERIALS AGENCY • NON-STOCKPILE CHEMICAL MATERIEL PROJECT

<http://www.cma.army.mil/nscmp.aspx>

If found, call 911 or the Army Operations Center at (703) 695-ARMY.

CWM

CHEMICAL AGENT IDENTIFICATION SETS (CAIS)

Chemical Application: Navy Shift Set (N955)	Chemical Application: Civilian Shift ID Set	Chemical Application: K953/N954 War Gas Identification Set	Chemical Application: K941 CAS Bottles	Chemical Application: Gas Identification Set M1, N951/N952	Chemical Application: Glass Ampoules for CAS	Chemical Application: Glass Ampoules for CAS
Scheduled (dilute) Chemical Fills: H, HX, HS, L	Scheduled (dilute) Chemical Fills: CO, H, L	Scheduled (dilute) Chemical Fills: CO, CK, H, HN, L	Scheduled Chemical Fills: H, HD, HS	Scheduled (dilute) Chemical Fills: CO, CK, H, HN, L	Scheduled (dilute) Chemical Fills: CO, H, HD, HS	Scheduled (dilute) Chemical Fills: CO, H, HD, HS
Other Fills: Simulated CO, CN, DM, PS	Other Fills: CN, PS	Other Fills: GA (simulated)	Other Fills: None	Other Fills: None	Other Fills: GA (simulated), PS	Other Fills: GA (simulated), PS

PROJECTILES

Chemical Application: Common Steel Shell, MK 8	Chemical Application: MK 53, Mod 0 (pictured); Artillery Shell, MK 56, Chemical Shell, 5/54, MK 54	Chemical Application: MK 8 (pictured), M57	Chemical Application: M300 (pictured), M302	Chemical Application: M300 (pictured), M302	Chemical Application: Projectiles, Binary M557 (pictured with canisters), DF and OPA (GB)	Chemical Application: Projectiles, Common Steel Shell, MK 8; Artillery Projectiles, 1.214
Scheduled Chemical Fills: CO, H	Scheduled Chemical Fills: CO, H, HD, HS	Scheduled Chemical Fills: CO, H, HD, HS	Scheduled Chemical Fills: CO, H, HD, HS, VX	Scheduled Chemical Fills: CO, H, HD, HS, VX	Scheduled Chemical Fills: CO, H, HD, HS, VX	Scheduled Chemical Fills: CO, H, HD, HS, VX
Other Fills: BA, CA, HE, NC, PS, WP	Other Fills: WP, FM	Other Fills: BA, FM, PS, HE, WP	Other Fills: HE, WP	Other Fills: BA, CA, CN, DM, FM, PS, HE, NC, PS, WP	Other Fills: None	Other Fills: BA, CA, FM, HE, NC, PS, WP

FUZES

Chemical Application: Fuze for the BLU-80 Big Eye Bomb
Scheduled Chemical Fills: N/A
Non-Scheduled Fills: N/A

MORTARS

Chemical Application: Mortar M21, M22, M24 (pictured)	Chemical Application: Stokes Mortar
Scheduled Chemical Fills: H, binary (testing only)	Scheduled Chemical Fills: CO, H, HS, PG
Other Fills: PS, HE, WP	Other Fills: PS, KI, PS, TH3, WP

BOMBLETS

Chemical Application: 10 lb. Cluster Bombs E49R34	Chemical Application: 20 lb. M124	Chemical Application: 1 lb. M124	Chemical Application: 1 lb. M124
Scheduled Chemical Fills: GB, H	Scheduled Chemical Fills: GB, H, HS	Scheduled Chemical Fills: GB, VX	Scheduled Chemical Fills: GB, VX
Other Fills: IM, WP	Other Fills: None	Other Fills: None	Other Fills: None

BOMBS

Chemical Application: E91, 3 lb.	Chemical Application: 10 lb., M54	Chemical Application: 175 lb. Munition	Chemical Application: 500 lb., AN-M78	Chemical Application: 1,000 lb., M34 (pictured), M34A1	Chemical Application: 100 lb., M47, M47A2 (pictured), Navy 100 lb., MK 42	Chemical Application: 500 lb., AN-M78	Chemical Application: 1,000 lb., M79, 1,000 lb.	Chemical Application: 115 lb., M70 (pictured) and M70A3; 120 lb., M113	Chemical Application: 155 mm Projectile (M20 and M21)
Scheduled Chemical Fills: GB	Scheduled Chemical Fills: GB	Scheduled Chemical Fills: GB	Scheduled Chemical Fills: AC, CO, CR	Scheduled Chemical Fills: GB	Scheduled Chemical Fills: H, HD, HS	Scheduled Chemical Fills: AC, CO, CR	Scheduled Chemical Fills: AC, CO, CR	Scheduled Chemical Fills: CO, GB, H, HD, HS, L	Scheduled Chemical Fills: H, HS
Other Fills: None	Other Fills: None	Other Fills: None	Other Fills: None	Other Fills: None	Other Fills: IM, NP, PWP, WP	Other Fills: None	Other Fills: None	Other Fills: None	Other Fills: FM, PS, WP

CANISTERS

Chemical Application: Fuze for the BLU-80 Big Eye Bomb	Chemical Application: Fuze for the BLU-80 Big Eye Bomb
Scheduled Chemical Fills: N/A	Scheduled Chemical Fills: N/A
Non-Scheduled Fills: N/A	Non-Scheduled Fills: N/A

CONTAINERS, DRUMS, BOTTLES

Chemical Application: Ton Containers	Chemical Application: 55-gallon drums	Chemical Application: 55-gallon drums	Chemical Application: Sample Bottles	Chemical Application: Department of Transportation Bottles	Chemical Application: CAS
Scheduled Chemical Fills: Any non-acidic chemical agent	Scheduled Chemical Fills: DF, CL	Scheduled Chemical Fills: H	Scheduled Chemical Fills: Any liquid chemical agent	Scheduled Chemical Fills: Any chemical agent	Scheduled Chemical Fills: H5 (pictured), any other chemical agent
Other Fills: Any military or commercial non-acidic liquid	Other Fills: Any military or commercial non-acidic liquid	Other Fills: Liquid smokes, erythroic acid, molasses residue (training), liquid riot control agents	Other Fills: Any military or commercial liquid	Other Fills: Any military or commercial liquid	Other Fills: Any military or commercial liquid

CYLINDERS

Chemical Application: 3-in. diameter chemical agent storage container	Chemical Application: 3-in. diameter chemical agent storage container	Chemical Application: 1.5-in. diameter chemical agent storage container	Chemical Application: Sherwood, Type M, chemical agent storage container	Chemical Application: Chemical agent storage container	Chemical Application: M242 (pictured left), and M241 (pictured right)
Scheduled Chemical Fills: Any chemical agent	Scheduled Chemical Fills: Any chemical agent	Scheduled Chemical Fills: Any chemical agent	Scheduled Chemical Fills: Any chemical agent	Scheduled Chemical Fills: Unknown (pictured), any chemical agent	Scheduled Chemical Fills: CO
Other Fills: Any military or commercial liquid	Other Fills: Any military or commercial liquid	Other Fills: Any military or commercial liquid	Other Fills: Any military or commercial liquid	Other Fills: Any military or commercial liquid	Other Fills: CL, smoke mixture

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ROCKETS

Chemical Application: German Rocket, Type 41	Chemical Application: Rocket, M55 (pictured), M60, M61	Chemical Application: Used for the Rocket, 115 mm, M55, M60, M61	Chemical Application: M90 762 mm warhead	Chemical Application: M25 (pictured), M27
Scheduled Chemical Fills: GA, H, HN, L, PD	Scheduled Chemical Fills: GB, VX	Scheduled Chemical Fills: N/A	Scheduled Chemical Fills: M139 GB filled or E139 VX filled bomblets	Scheduled Chemical Fills: CO, CR
Other Fills: CA, Smoke mixture (burning sulphuric acid)	Other Fills: Ethylene glycol in the M60 and M61 training rockets	Other Fills: N/A	Other Applications: Nuclear	Other Fills: None

SPRAY TANKS

Chemical Application: M10	Chemical Application: TMU-28, TMU-28B	Chemical Application: M33A1 (pictured), M33, E16R1	Chemical Application: M21, 30.7 gallon
Scheduled Chemical Fills: H, HD, HS, L	Scheduled Chemical Fills: H, HD, HS, L	Scheduled Chemical Fills: H, HD, HS	Scheduled Chemical Fills: H, L
Other Fills: CN, CNS, CNL, FM, PS	Other Fills: None	Other Fills: FM, PS	Other Fills: CN, CNS, PS

MINES

Chemical Application: Chemical Land Mine, M23 (pictured); look-alike M15 Anti-Tank Mine	Chemical Application: Chemical Land Mine, M23 (pictured); look-alike M15 Anti-Tank Mine	Chemical Application: M1 Chemical Land Mine
Scheduled Chemical Fills: VX	Scheduled Chemical Fills: VX	Scheduled Chemical Fills: H, HD, HS
Other Fills: HE (M15)	Other Fills: HE (M15)	Other Fills: Molasses residue (training)

FILL NOMENCLATURE		
AG/HCN*	Hydrogen Cyanide	Blood
BA	Bromoacetone	Lachrymator
BM	Berger mixture	Smoke
BZ*	3-quinclidyl benzoate	Incapacitating
CA	Bromobenzyl cyanide	Lachrymator
CG*	Phosgene	Choking
CK*	Cyanogen chloride	Choking
CL	Chlorine	Irritant
CN	Chloroacetophene	Lachrymator
CNB	10% CN + 45% Benzene + 45% Carbon tetrachloride	Lachrymator/irritant
CNC	70% CN + 30% Chloroform	Lachrymator/irritant
CNS	23% CN + 38.4% PS + 38.4% Chloroform	Lachrymator
DA	Diphethylchlorarsine	Irritant
DF*	Methylphosphonyldifluoride	Binary precursor for GB
DM	Adamsite	Vomiting
FM	Titanium Tetrachloride	Smoking
FS	Sulfur Trioxide and Chlorosulfonic Acid	Smoke
GA*	Tabun (non-persistent)	Nerve agent
GB*	Sarin (non-persistent)	Nerve agent
GD*	Soman (non-persistent)	Nerve agent
H/HS*	Levinstein Mustard	Blister
HC	Zinc Oxide and Hexachloroethane	Smoke
HD*	Distilled mustard	Blister
HE	Various explosive compounds	High explosive
HN1,2,3*	Nitrogen mustard	Blister
HT*	60% H + 40% bis (2-chloroethyl Thioethyl) Ether	Blister
IM	Incendiary Mixture	Fire
KJ	Stannic Chloride	Blister
L*	Lewisite	Blister
NC	Chloropicrin and Stannic Chloride	Irritant
NP	Napalm	Incendiary
OPA	Isopropyl Amine + Isopropyl alcohol	Binary Compound for GB
PD	Phosgene/diphethylchlorarsine mixture	Toxic
PG	Chloropicrin/Phosgene mixture	Irritant/lachrymator
PS	Chloropicrin	Irritant/lachrymator/vomiting
PT	Oil and Incendiary mixture	Incendiary
PWP	Plasticized White Phosphorus	Smoke
QL*	O-Ethyl O-2-diisopropylamino ethylmethylphosphonate	Binary precursor for VX
TH3	Thermite	Smoke
VX*	Nerve agent (persistent)	Nerve agent
WP	White Phosphorus	Smoke

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

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