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US ARMY ARMAMENT, MUNITIONS AND CHEM COMMAND CRDEC -- DS2,5 GALLON PAIL

6850-00-753-4870

Product ID:DS2,5 GALLON PAIL

MSDS Date:11/28/1989

FSC:6850

NIIN:00-753-4870

MSDS Number: BPHMT === Responsible Party ===

Company Name: US ARMY ARMAMENT, MUNITIONS AND CHEM COMMAND CRDEC

Address:ATTN:SMCCR-SFS,BLDG 5101 City:ABERDEEN PROVING GROUND,EA

State:MD

ZIP:21010-5423

C

ountry:US

Info Phone Num:301-671-4411

Emergency Phone Num:301-671-4411 (NORMAL HRS)/278-5201

CAGE:LO885

=== Contractor Identification ===

Company Name: MILITARY SPECIFICATIONS PROMULGATED BY MILITARY

Address: DEPTS/AGENCIES UNDER AUTH OF DEF STD

Box:MANUAL City:4120 3-M

Phone:804-279-4371 DSN 695-4371

CAGE:81349

Company Name: US ARMY ARMAMENT, MUNITIONS AND CHEM COMMAND, CRDEC

Address:ATTN:SMCCR-SFS

Box:City:ABERDEEN PROVING GROUND

State:MD

ZIP:21010-5423 Country:US

Phone:301-671-4411

CAGE:LO885

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====== Composition/Information on Ingredients ========

Ingred Name: SODIUM HYDROXIDE

CAS:1310-73-2

RTECS #:WB4900000 Fraction by Wt: 2% Other REC Limits:N/K OSHA PEL:2 MG/M3

ACGIH TLV:C 2 MG/M3; 9293

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name: DIETHYLENETRIAMINE

CAS:111-40-0

RTECS #:IE1225000 Fraction by Wt: 70% Other REC Limits:N/K OSHA PEL:1 PPM

ACGIH TLV:1 PPM SKIN

RTECS #:KL5775000 Fraction by Wt: 28% Other REC Limits:N/K OSHA PEL:25 PPM SKIN ACGIH TLV:5 PPM SKIN

Ingred Name:SPILL PROC:EFFECTIVE AGAINST COMPONENTS,LONG RUBBER GLOVES TO PROT ARMS,FULL LENGTH RUBBER APRON.AVOID CONT W/ LIQ/VAP.

RTECS #:99999992Z Other REC Limits:N/K OSHA PEL:N/K ACGIH TLV:N/K

Ingred Name:WASTE DISP METHODS:DISP AT OVERSEAS MILITARY INSTALLATIONS MUST USE FACILITIES THAT OPERATE WITHIN LAWS OF HOST COUNTRY.

RTECS #:99999992Z Other REC Limits:N/K OSHA PEL:N/K

ACGIH TLV:N/K

Ingred Name:RESP PROT:FACE PIECE POSITIVE PRESS,SUPPLIED-AIR RESP W/ AUXILIARY SCBA.NOTE:MILITARY PERSONNEL IN TRAINING (SEE ING 7)

RTECS #:99999999ZZ Other REC Limits:N/K OSHA PEL:N/K ACGIH TLV:N/K

Ingred Name:RESP PROT:SCENARIOS THE M9 OR M17 SERIES MASK IS ACCEPTABLE.CHANGE FILTER ELEMENTS & CANISTERS AFTER EACH USE WITH DS2.

RTECS #:99999992Z Other REC Limits:N/K OSHA PEL:N/K ACGIH TLV:N/K

Ingred Name:OTHER PROT EQUIP:WILL USE STANDARD ISSUE EQUIPMENT DURING

TRAINING OPERATIONS.

RTECS #:99999992Z Other REC Limits:N/K OSHA PEL:N/K ACGIH TLV:N/K

LD50 LC50 Mixture:N/K

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic: CORR TO SKIN, EYE, RESP/GASTRIC

MUCOSA.EFFECTS DEPEND ON RTE, AMT, LENGTH OF EXPOS. CAN LEAD TO SEV

BURNS & ESOPHAGEAL STRICTURE.RPTD SKIN/RESP EXPOS TO

DIETHY

LENETRIAMINE CAN CAUSE SKIN SENSIT & ASTHMA.ET HYLENE GLYCOL MONOMETHYL ETHER:KNOWN TOCAUSE REPRO DISORDERS (MALE,DEVEL)(CAL PROP 65,1989),FEMALE (NIOSH),& LIVER DMG.

Explanation of Carcinogenicity:NONE

Effects of Overexposure: EYES: CORROSIVE. POSSIBLE CORNEAL

OPACIFICATION.SKIN:CORROSIVE,SEVERE BURNS.INGESTION:CORROSIVE TO GASTRIC MUCOSA.INHALATION:CORROSIVE TO RESPIRATORY MUCOSA.EXPOSURE TO HIGH VAPOR CONCENTRATIONS CAN CAU SE NAUSEA,VOMITING,RESPIRATORY IRRITATION.SUFFIC

IENT EXPOS TO ETHYLENE GLYCOL MONOMETHYL ETHER MAY CAUSE CNS DEPRESSION.

Medical Cond Aggravated by Exposure: N/K

First Aid:ALL CASES:SEEK IMMED MEDICAL ATTN.EYES:IMMED FLUSH W/ LRG AMTS OF WATER FOR AT LEAST 15 MIN.SKIN:FLUSH FROM SKIN W/ WATER UNTIL "SOAPINESS" IS NO LONGER PRESENT.INGEST:IF CONSCIOUS,GIVE AS MUCH MILK O R WATER AS POSSIBLE.DO NOT INDUCE VOMIT.SUPPORTIVE MEASURES MAY BE REQUIRED.INHAL:RE

MOVE TO FRESH AIR.IF BRTHG

STOPPED, GIVE ARTF RESP. IF BRTHG DFCLT, GIVE O*2. ADDITIONAL SUPPORTIVE MEASURES MAY BE REQ.

========= Fire Fighting Measures ==============

Flash Point Method:CC Flash Point:175F,80C Lower Limits:N/K Upper Limits:N/K

Extinguishing Media: CARBON DIOXIDE, ALCOHOL FOAM, WATER.

Fire Fighting Procedures:STANDARD TURNOUT GEAR WITH NIOSH/MSHA APPROVED SCBA.

Unusual Fire/Explosion Hazard:NEVER MIX OR STORE ACIDS,OXIDIZING AGENTS,SUPERTROPIC

AL BLEACH OR HIGH TEST HYPOCHLORITE TOGETHER WITH DS2;FIRE OR EXPLOSION MAY RESULT.

======== Accidental Release Measures ===========

Spill Release Procedures:POROUS SURFACE:CLEAN & NEUT IMMED TO AVOID INDEFINITE HAZ.COVER SPILL W/ DRY SODIUM BISULFATE TO NEUT & ABSORB ON VERMICULITE,CLAY,ETC.PLACE IN EPOXY COATED DRUM W/ FULLY REMOVABLE HEAD.LABEL CORR IAW EPA & DOT REQ.PROVIDE ADEQ VENT & ELIM(SEE SUPP)

Neutralizing Agent: DRY SODIUM BISULFATE.

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======= Handling and Storage ============== Handling and Storage Precautions: AVOID EXTREME TEMPERATURES (SUCH AS 160F,71C) DURING STORAGE.CORROSIVE. Other Precautions:N/K ===== Exposure Controls/Personal Protection ======== Respiratory Protection: TWA 5.2 MG/M3: NIOSH APPRVD FULL FACEPIECE PRESS DE MAND SCBA, NIOSH APPRVD FULL-(SEE ING 6) Ventilation: LOCAL EXHAUST NECESSARY IF TLV (TWA) EXCEEDED. Protective Gloves:BUTYL RUBBER Eve Protection: CHEM SFTY GOGG .SEV EXPOS:INCLUDE FSHLD. Other Protective Equipment: CHEM-RESIST: HOODED CLTHG (OVERALLS, LONG SLEEVE JACKET OR 1-2 PIECE CHEM SPLASH SUIT) & BOOTS.MILITARY PERS:(SEE ING 8) Work Hygienic Practices: CONTAMINATED CLOTHING AND SHOES SHOULD BE REMOVED IMMEDIATELY AND WASHED THOROUGHLY WITH WATER BEFORE REUSE. Supplemental Safety and Health SPEC GRAV:0.97-0.98,H*2O=1.VISC:9.9 CST.MATLS TO AVOID:MYLAR, ACRYLIC), PAINT, WOOL, LEATHER, OXIDIZING MATLS (SUPERTROPICAL BLEACH, HIGH TEST HYPOCHL ORITE, ETC) & ACIDS.TLV:5.2 MG/M3 TWA (MFR).SPILL PROC:IG NIT SOURCES.DURING CLEANUP, WEAR FULL FACE RESP W/ ORGANIC VAP CARTRIDGE (SEE ING 4).ENTRY RTE:INHAL/SKIN/INGEST. ======== Physical/Chemical Properties =========== Boiling Pt:B.P. Text:380F,193.3C Melt/Freeze Pt:M.P/F.P Text:N/K Decomp Temp:Decomp Text:N/K Vapor Pres:N/K Vapor Density:N/K Spec Gravity: SEE SUPP DATA Evaporation Rate & Evaporation R Solubility in Water:N/K Appearance and Odor:CLEAR AMBER SOLUTION WITH AMMONIA-LIKE ODOR. ======== Stability and Reactivity Data ========== SOME METALS (SUCH AS AL, CADMIUM, TIN & ZINC), SOME PLASTICS (SUCH AS LEXAN, CELLULOSE ACETATE, POLYVINYL CHLORIDE, (SEE SUPP) Stability Condition to Avoid: DETERIORATES IN AIR. EXPOSURE OF 48 HOURS OR MORE TO OPEN AIR WILL RESULT IN FORMATION OF GELATIN-LIKE BODIES ON SURFACE. Hazardous Decomposition Products: N/K ======== Disposal Considerations =============

Waste Disposal Methods:DISP MUST BE IAW FED,STATE,& LOC REGS.COORDINATION W/ SUPPORTING INSTALLATION/MACOM ENVIRON COORDINATION PRIOR TO DISP REC TO DETERM APPROP DISP METH .MUST BE INCIN.NOT RCRA MATL IF NOT MIXED W/ WATER.EXCESS STOCK:COORDINATE W/ DRMO.(SEE ING 5)

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