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U.S. ARMY CHEM RESEARCH, DEV. & ENGINEERING CENTER -- DECONTAMINATING AGENT DS2,1-1/3 QUART CAN -- 6850-00-753-4827

Product ID:DECONTAMINATING AGENT DS2,1-1/3 QUART CAN

MSDS Date:11/29/1989

FSC:6850

NIIN:00-753-4827

MSDS Number: BNVZF === Responsible Party ===

Company Name: U.S. ARMY CHEM RESEARCH, DEV. & ENGINEERING CENTER

Address:ATTN: SMCCR-SFS, BLDG E5101

City :APG

State:MD

ZIP:21010-5423 Country:US

Info Phone Num:410-671-4411/410-278-5201 AFTER HRS

Emergency Phone Num:410-671-4411/410-278-5201 AFTER HRS

Preparer's Name: SAFETY OFFICE

CAGE:LO886

=== Contractor Identification ===

Company Name: ARMY ARMAMENT RESEARCH & DEVELOPMENT COMMAND

Box:City:ABERDEEN PROVING GROUND

State:MD ZIP:21010 Country:US CAGE:81361

Company Name: U.S. ARMY CHEM RESEARCH, DEV. & ENGINEERING CENTER

Address: ATTN: SMCCR-SFS, BLDG E5101

Box:City:APG State:MD

ZIP:21010-5423

Country:U

S

Phone:410-671-4411/410-278-5201 AFTER HRS

CAGE:LO886

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

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

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 (METHYL CELLOSOLVE)

CAS:109-86-4

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

Ingred Name:WASTE DISP:PH 2-12.5 & LANDFILL IS PREFERRED.COORD DISP W/DEFENSE PROPERTY DISP OFC.OVERSEAS:IAW LAWS OF HOST COUNTRY.

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

Ingred Name:SPILL PROC:VAP CARTRIDGE EFFECTIVE AGAINST
DIETHYLENETRIAMINE & METHYL CELLOSOLVE,LONG RUBBER GLOVES TO PROT
(SEE ING 6)

RTECS #:9999999ZZ

Other REC Limits:N/K OSHA PEL:N/K

ACGIH TLV:N/K

Ingred Name: SPILL PROC: HANDS & ARMS AND A FULL LENGTH RUBBER APRON. AVOID CONTACT WITH LEAKING LIQUID OR VAPOR.

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: CORRODES SKIN, EYE, RESPIRAT

ORY MUCOSA

OR GASTRIC MUCOSA.EXPOSURE TO EGME MAY CAUSE LIVER DAMAGE.EGME KNOWN TO CAUSE REPRODUCTIVE DISORDERS (MALE/DEVELOPMENTAL)(CAL PROP 65,1989).NIOSH REC THAT IT BE TR EATED AS HAVING POTENTIAL TO CAUSE REPRODUCTIVE EFFECTS.RPTD EXPOSURE TO DETA CAN CAUSE SKIN SENSITIZATION & ASTHMA.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:EYES:BURNS,IRRITATION,CORNEAL OPACIFICATION.SKIN:BURNS,IRRITATION.INGESTION:BURNS & ESOPHAGEAL STRICTURE.INHALATION:BURN

S.HIGH VAPOR CONCENTRATIONS OF DS2 CAN CAUSE NAUSEA, VOMITING & RESPIRATORY IRRIT ATION.EGME MAY CAUSE CNS DEPRESSION.EFFECTS DEPEND ON ROUTE, AMOUNT AND DURATION OF EXPOSURE. Medical Cond Aggravated by Exposure: N/K
======================================
First Aid:EYES:IMMED FLUSH W/ LOTS OF WATER FOR AT LEAST 15 MIN.SEEK MED ATTN IMMED.SKIN:FLUSH AWAY W/ WATER UNTIL "SOAPINESS" IS NO LONGER PRESENT.SEEK MED ATTN IMMED.INGEST:IF CONSCIOUS,GIVE AS MU CH
MILK OR W ATER AS POSSIBLE.DO NOT INDUCE VOMITING.SEEK MED ATTN IMMED.SUPPORTIVE MEASURES MAY BE REQUIRED.INHAL:REMOVE TO FRESH AIR.IF BRTHG STOPPED,GIVE ARTF RESP.IF BRTHG IS DFCLT,GIVE O*2.(SEE SUPP DATA)
=========== Fire Fighting Measures =============
Flash Point:168F,75.5C 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.
Unusua I Fire/Explosion Hazard:NEVER MIX OR STORE ACIDS,OXIDIZING AGENTS,SUPERTROPICAL BLEACH TOGETHER WITH DS2;FIRE OR EXPLOSION MAY RESULT.
======== Accidental Release Measures =========
Spill Release Procedures:POROUS SURFACE:CLEAN & NEUTRALIZE IMMED TO AVOID ABSORPTION & BECOMING INDEFINITE HAZ.CONTAIN:COVER W/ SODIUM BISULFATE TO NEUTRALIZE & ABSORB W/ CLAY,ETC.SCOOP UP MATL & ANY CONTAM SOIL/SUBSTRATE & P LACE IN EPOXY-COATED DRUM W/ FULLY (SEESUPP D ATA)
Neutralizing Agent:SODIUM BISULFATE
============ Handling and Storage =============
Handling and Storage Precautions:AVOID CONTACT WITH VAPOR/LIQUID.AVOID EXTREME TEMPERATURES (160F,71C) DURING STORAGE. Other Precautions:CORROSIVE MATERIAL.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:AIRBORNE CONC 5.2MG/M3 OR EMERGENCIES:USE SCBA. M9 &M17 MILITARY MASKS ACCEPTABLE, CHANGE FILTER AFTER EACH USE W/ DS2. Ventilation

:LOCAL EXHAUST NECESSARY IF TLV IS

EXCEEDED.SPECIAL:NONCORROSIVE EXHAUST HOODS, FREE VELOCITY 150 LFPM.

Protective Gloves:BUTYL RUBBER GLOVES.

Eye Protection: INDUS FSHLD OR SPLASH-PROOF CHEM GOGG.

Other Protective Equipment: CORROSIVE RESISTANT (RUBBER) GAUNTLET, BOOTS AND APRON.

Work Hygienic Practices: IMMEDIATELY REMOVE CONTAMINATED CLTHG & SHOES, WASH THOROUGHLY WITH WATER BEFORE REUSE. AVOID CONTACT WITH LIQUID/VAPOR.

Supplemental Safety and Health

SPEC GRAV:0.97-0.98 (H*2O=1).ENT

RY RTE:INHAL/SKIN/INGEST .FIRST AID

PROC:SEEK IMMED MED ATTN.ADDED SUPPORTIVE MEASURES MAY BE REQ.SPILL PROC:REMOVABLE HEAD & LABEL "CORR & INFLAMMABLE" IAW EPA & DOT REQ. VENT AREA & REMOVE IGNIT SOURCES. AVOID ALL CONTACT. USE PROPER PROT EQUIP:FULL FACE RESP W/ ORGANIC (SEE ING 5)

======== 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

pec Gravity: SEE SUPP DATA

Evaporation Rate & Dr. Reference: N/K

Solubility in Water:N/K

Appearance and Odor:CLEAR AMBER SOLUTION WITH AMMONIA-LIKE ODOR.

======== Stability and Reactivity Data ===========

METALS:AL,CD,SN,ZN.PLASTICS:LEXAN,CELLULOSE ACETATE,POLYVINYL CHLORIDE, MYLAR, ACRYLIC. PAINT, WOOL, LEATHER, OXIDIZERS, ACIDS. Stability Condition to Avoid:DS2 WILL DETERIORATE IN AIR.EXPOSURE OF 48 HRS OR MORE TO OPEN AIR WILL RESULT IN GELATIN-LIKE BODIES ON SURFACE O

F DS2.

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 BEFORE DISP IS REC TO DETERM APPROP DISP METH .CORROSIVE.EPA HAZ WASTE #D002.INCINERATE O R NEUTRALIZE WITH SODIUM BISULFATE TO (SEE ING 4)

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