

U.S. ARMY CHECICAL RESEARCH, DEV. & ENGINEER CENTR -- DECONTAMINATING AGENT DS2,5  
GAL PAIL -- 6850-00-753-4870

===== Product Identification =====

Product ID:DECONTAMINATING AGENT DS2,5 GAL PAIL

MSDS Date:11/29/1989

FSC:6850

NIIN:00-753-4870

MSDS Number: BNVZG

=== Responsible Party ===

Company Name:U.S. ARMY CHECICAL RESEARCH, DEV. & ENGINEER CENTR

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:LO889

=== 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 CHECICAL RESEARCH, DEV. & ENGINEER CENTR

Address:ATTN: SMCCR-SFS, BLDG E5101

Box:City:APG

State:MD

ZIP:21010-5423

Country:US

Phone:41

0-671-4411/410-278-5201 AFTER HRS

CAGE:LO889

Company Name:WRIGHT CHEMICAL CORP

Address:ACME STATION

Box:City:RIEGELWOOD

State:NC

ZIP:28456

Country:US

CAGE:5U648

===== 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

V:C 2 MG/M3; 9293  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:ETHYLENE GLYCOL MONOMETHYL ETHER (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 #:9999999ZZ  
Other REC Limits:N/K  
OSHA PEL:N/K  
ACGIH TLV:N/K

Ingred Name:SPILL PROC:VAP CARTRIDGE EFFECTIVE AGAIN  
ST  
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 #:9999999ZZ  
Other REC Limits:N/K  
OSHA PEL:N/K  
ACGIH TLV:N/K

===== Hazards Identification =====

LD50 LC50 Mixture:N/K  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Report

s of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:CORRODES SKIN,EYE,RESPIRATORY 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:BURNS.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 Measures =====

First Aid:EYES:IMMED FLUSH W/ LOTS OF WATER FOR AT LEAST 15 MIN.SEEK  
MED ATTN IMMED.SKIN:FLUSH A  
WAY W/ WATER UNTIL "SOAPINESS" IS NO  
LONGER PRESENT.SEEK MED ATTN IMMED.INGEST:IF CONSCIOUS,GIVE AS MUCH  
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,ALC

OHOL FOAM,WATER.

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

Unusual 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/ CL

AY,ETC.SCOOP UP MATL & ANY  
CONTAM SOIL/SUBSTRATE & PLACE IN EPOXY-COATED DRUM W/ FULLY  
(SEESUPP DATA)  
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 5.2 MG/M3 OR EM  
ERGENCIES: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:INDUSTRIAL FSHLD OR SPLASH-PROOF CHEM GOGG.  
Other Protective Equipment:CORROSIVE RESISTANT (RUBBER) GAUNTLET,BOOTS  
AND APRON.  
Work Hygienic Practices:IMMEDIATELY REMOVE CONTAMINATED CLOTHING &  
SHOES,WASH THOROUGHLY WITH WATER  
BEFORE REUSE.AVOID CONTACT WITH  
LIQUID/VAPOR.  
Supplemental Safety and Health  
SPEC GRAV:0.97-0.98 (H<sub>2</sub>O=1).ENTRY RTE:INHAL/SKIN/INGEST .FIRST AID  
PROC:SEEK IMMEDIATE MED ATTENTION.ADDED SUPPORTIVE MEASURES MAY BE REQUIRED.SPILL  
PROC:REMOVABLE HEAD & LABEL "CORR & INFLAMMABLE" IAW EPA & DOT  
REQ.VENT AREA & REMOVE IGNITION SOURCES.AVOID ALL CONTACT.USE PROPER  
PROTECTIVE EQUIP:FULL FACE RESP W/ ORGANIC (SEE INDEX 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  
Spec Gravity:SEE SUPP DATA  
Evaporation Rate & Reference:N/K  
Solubility in Water:N/K  
Appearance and Odor:CLEAR AMBER SOLUTION WITH AMMONIA-LIKE ODOR.

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

METALS:AL,CU,FE,NI,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 OF 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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