

U.S. ARMY ARMAMENT, MUNITIONS & CHEMICAL COMMAND -- DECONTAMINATING AGENT DS2 --  
6850-00-753-4827

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

Product ID:DECONTAMINATING AGENT DS2

MSDS Date:09/28/1984

FSC:6850

NIIN:00-753-4827

MSDS Number: BFNDS

=== Responsible Party ===

Company Name:U.S. ARMY ARMAMENT, MUNITIONS & CHEMICAL COMMAND

Address:ATTN: SMCCR-SFS. HDQ, BLDG E5101

City:ABERDEEN PROVING GROUND

State

:MD

ZIP:21010-5423

Country:US

Info Phone Num:301-278-5201 (AFTER DUTY HOURS)

Emergency Phone Num:301-671-4411 (0800-1630 EST)

CAGE:80706

=== Contractor Identification ===

Company Name:ASTRO DEVELOPMENT LABORATORY INC

Address:236 CALIFORNIA ST

Box:City:EL SEGUNDO

State:CA

ZIP:90245-4309

Country:US

CAGE:7K997

Company Name:POLY RESEARCH CORPORATION

Address:125 CORPORATE DRIVE

Box:City:HOLTSVILLE

State:NY

ZIP:11742-2007

Country:US

Phone:516-758-0460

CAGE:64713

Company Name:TIMMERMAN

CAGE:TIMMR

Compa

ny Name:U.S. ARMY ARMAMENT, MUNITIONS & CHEMICAL COMMAND  
Address:ATTN: SMCCR-SFS. HDQ, BLDG E5101  
Box:City:ABERDEEN PROVING GROUND  
State:MD  
ZIP:21010-5423  
Country:US  
Phone:301-671-4411 (0800-1630 EST)  
CAGE:80706  
Company Name:WRIGHT CHEMICAL CORP  
Address:ACME STATION  
Box:City:RIEGELWOOD  
State:NC  
ZIP:28456  
Country:US  
CAGE:5U648

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

Ingred Name:DIETHYLENE TRIAMINE  
CAS:111-40-0  
RTECS #:IE1225000  
Fraction by Wt: 69.-71%.  
OSHA PEL:1 PP  
M  
ACGIH TLV:S, 1 PPM; 9192

Ingred Name:2-METHOXYETHANOL (EGME) (SARA III)  
CAS:109-86-4  
RTECS #:KL5775000  
Fraction by Wt: 27.-29%.  
OSHA PEL:S, 25 PPM  
ACGIH TLV:S, 5 PPM; 9192

Ingred Name:SODIUM HYDROXIDE (SARA III)  
CAS:1310-73-2  
RTECS #:WB4900000  
Fraction by Wt: 1.9-2.1%  
OSHA PEL:2 MG/M3  
ACGIH TLV:C 2 MG/M3; 9293  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:MATERIAL MANUFACTURED FOR ARMY IAW THE REQMTS OF SPEC.;  
ARMY'S CHEM. RES. & DEV. CTR. PROVIDED THE MASTER MSDS.  
RTECS #:999

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Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: CORROSIVE TO TISSUE & HIGHLY IRRITANT TO RESPIRATORY TRACT; CHRONIC: REPEATED EXPOSURE TO "DETA" CAN CAUSE SKIN SENSITIZATION & ASTHMA; SUFFICIENT EXPOSURE TO "EGME" MAY CAUSE "CNS" DEPRESSION & LIVER DAMAGE. ALTHOUGH NOT DEFINITELY ESTABLISHED IN HUMANS , REPRODUCTIVE EFFECTS ARE ALSO A MAJOR CONCERN.

Effects of Overexposure:NO TOX. DATA AVAILABLE ON DS2. HOWEVER, DS2: ALKALI WHICH ON CONTACT WILL CORRODE TISSUE. EFFECTS EXHIBITED ARE A FUNCTION OF ROUTE OF EXPOS., AMT. OF SUBST. PRESENT & DURATION OF EXPOSURE; HEALTH EFF ECTS RANGE FROM MILD BURNS & PRIMARY IRRITATION TO CORNEAL OPACIFICATION, SEVERE BURNS, NAUSEA, VOMITING(SEE SUPPL DATA)

Medical Cond Aggravated by Exposure:PRE-EXISTING RESPIRATORY CONDITIONS.

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First Aid Measures =====

First Aid:SKIN: FLUSH AWAY W/WATER UNTIL "SOAPINESS" IS NO LONGER PRESENT; EYES: IMMEDIATELY FLUSH W/COPIOUS AMTS. OF WATER FOR AT LEAST 15 MINS. IN EITHER CASE, SEEK MEDICAL ATTN.; INHAL: REMOVE TO FRESH AIR - GIVE CPR/O\*2 AS SITUATION DICTATES. ADDITIONAL SUPPORTIVE MEASURES MAY BE REQUIRED; INGEST: IF CONSCIOUS, GIVE PATIENT AS MUCH MILK OR WATER AS POSSIBLE. DO NOT INDUCE VOMITING. GET MED. ATTN. IMMED

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Fire Fighting Measures =====

Flash Point:168F,76C

Extinguishing Media:CARBON DIOXIDE, ALCOHOL FOAM, WATER

Fire Fighting Procedures:NONE CITED

Unusual Fire/Explosion Hazard:NEVER MIX OR STORE WITH ACIDS, OXIDIZING AGENT OR STB (UPER TROPICAL BLEACH); FIRE OR EXPLOSION MAY RESULT.

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Accidental Release Measures =====

Spill Release Procedures:SPILLS ON POROUS SURFACES(CONCRETE, WOOD, ETC.) SHOULD BE CLEANED & NEUTR

ALIZED IMMEDIATELY. OTHERWISE, IT  
WILL BE ABSORBED & BECOME AN INDEFINITE HAZARD. CONTAIN SPILL,  
NEUTRALIZE, ABSORB ON VERMICULITE, CLAY OR DIATOMACEOUS EARTH.  
SCOOP UP IN DRUM!

Neutralizing Agent:SODIUM BISULFATE

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===== Handling and Storage =====

Handling and Storage Precautions:AVOID EXTREME TEMPERATURES(I.E.  
160F/71C) FOR STORAGE! AVOID CONTACT W/LEAKING LIQUID OR VAPOR.  
Other Precautions:SPILL/RELEASE PROCEDURE CONTD: SCOOP UP MATERIAL &

CONTAMIN. MATTER, PLACE IN EPOXY COATED DRUM W/REMOVABLE HEAD IAW  
EPA & DOT RQMTS.; DURING CLEAN-UP,WEAR FULL FACE RESPIR. W/ORGANIC  
VAPOR CARTRIDGE, ARM-LENGTH RUBBER GLOVES & RUBBER APRON.

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===== Exposure Controls/Personal Protection =====

Respiratory Protection:FOR DS2 AIRBORNE CONC. 5 PPM OR EMERGENCIES,USE "SCBA"  
Ventilation:LOCAL EXHAUST: NECESSARY IF TLV(TWA) EXCEEDED.

Protective Gloves:BUTYL RUBBER: ARM'S LENGTH TYPE

Eye Protection:SPLASHPROOF GOGGLES /FULL  
FACE SHIELD

Other Protective Equipment:AS REQUIRED FOR TASK AT HAND; CORROSIVE  
RESISTANT(I.E. RUBBER) GAUNTLET, BOOTS, & APRON

Work Hygienic Practices:USE MATERIAL IAW THE GUIDELINES & INSTRUCTIONS  
SET FORTH IN USER'S TECH MANUAL.

Supplemental Safety and Health

SIGNS & SYMPTOM OVEREXP. CONTD: RESPIRATORY IRRITATION, SKIN  
SENSITIZATION.

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===== Physical/Chemical Properties =====

HCC:B1

Boiling Pt:B.P. Text:380F,193C

Spec Gravity:0.97 - 0.98

pH:>12.5

Appearance

and Odor:CLEAR AMBER SOLUTION WITH AMMONIA-LIKE ODOR

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

Stability Indicator/Materials to Avoid:YES  
CORROSIVE. INCOMPATIBLE WITH AL, CD, ZN, PAINT, WOOL, OXIDIZING  
MATERIALS.

Stability Condition to Avoid:EXPOSURE TO AIR, DS2 WILL DETERIORATE IN  
AIR. EXPOSURE OF 48 HOURS OR MORE TO OPEN AIR PRODUCES GELATIN-LIKE  
BODIES.

Hazardous Decomposition Products:NONE CITED

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===== Disposal Considerations =====

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Waste Disposal Methods:CHOICE OF METHOD DEPENDS ON PHYSICAL CONDITION OF WASTE & FACILITY'S CAPABILITY.FOR EXCESS STOCK,COORDINATE W/LOCAL DRMO;OVERSEAS:OPERATE W/IN HOST COUNTRY & DRMO REGS.; WASTE CORROSIVE(PH >12.5) W/EP A HAZ. NO:D002; INCINERATE OR NEUTRALIZE.

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