

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

Compan

y 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

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

Ingred Name:DIETHYLENE TRIAMINE  
CAS:111-40-0  
RTECS #:IE1225000  
Fraction by Wt: 69.-71%.  
OSHA PEL:1 PPM

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 #:9999

=====  
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 EFFECTS 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.

====

=====  
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.

=====  
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.

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

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

LIZED 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

=====  
===== 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.

=====  
===== 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 F  
ACE 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.

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

HCC:B1

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

Spec Gravity:0.97 - 0.98

pH:>12.5

Appearan

ce and Odor:CLEAR AMBER SOLUTION WITH AMMONIA-LIKE ODOR

=====  
===== 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

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

=====

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.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever,

expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.