

## **DECONTAMINATING AGENT DS2**

### **MSDS Number**

BHBZD

### **National Stock Number**

4230-01-136-8888

### **Product Name**

DECONTAMINATING AGENT DS2

### **Manufacturer**

U S ARMY ARMAMENT MUNITIONS AND CHEMICAL COMMAND

### **Product Identification**

Product ID:DECONTAMINATING AGENT DS2

MSDS Date:09/28/1984

FSC:4230

NIIN:01-136-8888

MSDS Number: BHBZD

### **Responsible Party**

U.S. ARMY ARMAMENT,MUNITIONS & CHEMICAL COMMAND

SMCCR-SFS, HDQ. BLDG. E5101

ABERDEEN PROVING GROUND , MD 21010-5423

US

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

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

Cage: 80706

### **Contractor**

U.S. ARMY ARMAMENT, MUNITIONS & CHEMICAL COMMAND

ABERDEEN PROVING GROUND, MD 21010-5423

US

301-671-4411 (0800-1630 EST)

Cage: 80706

### **Ingredients**

DIETHYLENE TRIAMINE

CAS: 111-40-0

RTECS: IE1225000

Fraction By Weight: 69.-71%.

OSHA PEL1 PPM

ACGIH TLV: S, 1 PPM; 9192

2-METHOXYETHANOL (EGME) (SARA III)

CAS: 109-86-4

RTECS: KL5775000

Fraction By Weight: 27.-29%.

OSHA PELS, 25 PPM

ACGIH TLV: S, 5 PPM; 9192

## Hazards

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

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

Flash Point:168F/75.6C  
 Extinguishing Media:CARBON DIOXIDE, ALCOHOL FOAM, WATER  
 Fire Fighting Procedures:NONE CITED  
 Unusual Fire/Explosion Hazard:NEVER MIX OR STORE ACIDS, OXIDIZING AGENTS, OR STB(SUPER-TROPICAL BLEACH) TOGETHER W/ DS2; FIRE OR EXPLOSION MAY RESULT.

## Accidental Release

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

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

Respiratory Protection:FOR DS2 AIRBORNE CONC. FACEPIECE & ONE OF THE FOLLOWING: A) CHEM. CARTRIDGE RESP. W/AMINE CARTRIDGE; B) SUPPL. AIR RESP; C) SUPPL. AIR RESP. IN POSITIVE PRESS. ON CONTIN. FLOW MODE; FOR 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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## Chemical Properties

HCC:B2

Boiling Pt: =193.3C, 380.F

Spec Gravity: 0.97 - 0.98

pH: >12.5

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

## Stability

Stability Indicator/Materials to Avoid: YES

CORROSIVE: INCOMPATIBLE W/AL, CD, SN, & ZN; LEXAN, CELLULOSE

ACETATE, PVC, MYLAR, ACRYLIC; PAINT, WOOL, OXIDIZING MATRL

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

Hazardous Decomposition Products: NONE CITED

## Disposal

Waste Disposal Methods: CHOICE OF METHOD DEPENDS ON PHYSICAL CONDITION OF WASTE & FACILITY'S CAPABILITY. FOR EXCESS STOCK, COORDINATE W/LOCAL DRMD; OVERSEAS OPERATE W/IN HOST COUNTRY & DRMD REGS.; /WASTE CORROSIVE (PH >12.5) W/ EPA HAZ. WASTE: D002; INCINERATE OR NEUTRALIZE.

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