

DOW CHEMICAL U.S.A. -- DIETHYLENETRIAMINE,(PART OF REPAIR KIT NSN 1610-01-027-4138) --  
6810-00-995-4804

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

Product ID:DIETHYLENETRIAMINE,(PART OF REPAIR KIT NSN 1610-01-027-4138)

MSDS Date:03/22/1995

FSC:6810

NIIN:00-995-4804

MSDS Number: BVHFY

=== Responsible Party ===

Company Name:DOW CHEMICAL U.S.A.

Address:CHEMICAL AND METALS DEPARTMENT

City:MIDLAND

State:MI

ZI

P:48674

Country:US

Info Phone Num:517-636-4400/800-258-2436

Emergency Phone Num:517-636-4400

CAGE:96717

=== Contractor Identification ===

Company Name:DOW CHEMICAL CO

Address:100 LARKIN CENTER

Box:City:MIDLAND

State:MI

ZIP:48674

Country:US

Phone:800-258-2436

CAGE:96717

Company Name:NAVAL AVIATION DEPOT (619-545-5200)

Box:UNKNOW

CAGE:91145

Company Name:R.H.CARLSON COMPANY,INC.

Address:41-CHESTNUT STREET

Box:1687

City:GREENWICH

State:CT

ZIP:06830-5921

Country:US

Phone:203-531-5500

CAGE:33530

Compa

ny Name:SOUTHWEST CHEMICAL CO INC  
Address:521 SOUTH K ST  
Box:City:IMPERIAL  
State:CA  
ZIP:92251  
Country:US  
Phone:619-352-5300  
CAGE:0AKW6

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Composition/Information on Ingredients  
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Ingred Name:DIETHYLENETRIAMINE (98.5 - 99.9 %)  
CAS:111-40-0  
RTECS #:IE1225000  
Fraction by Wt: >98.5%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 PPM  
ACGIH TLV:S, 1 PPM; 9495

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Hazards Identification  
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LD50 LC50 Mixture:LD50 (ORAL, RAT) 1080-2330 MG/  
KG  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:TARGET ORGANS:EYES, SKIN, RESPIRATORY  
& GI TRACTS. ACUTE- ORAL:MAY CAUSE GI IRRITATION, BURNS &  
ULCERATION TO MOUTH & THROAT. EYE/SKIN:CORROSIVE. MAY CAUSE SEVERE  
IRRITATION, BURNS, BLINDNESS. HARMFUL IF ABSORBED THROUGH SKIN.  
INHALE:VAPORS/MISTS MAY CAUSE SERIOUS ADVERSE EFFECTS, EVEN DEATH.  
CHRONIC- UNKNOWN.

Explanation of Carcin  
ogenicity:NONE

Effects of Overexposure:SEVERE IRRITATION, BURNS, CORNEAL INJURY,  
PERMANENT IMPAIRMENT OF VISION, , BLINDNESS, ALLERGIC SKIN  
REACTION, PAIN, RESPIRATORY SENSITIZATION

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN  
DISORDERS, EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE  
MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

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First Aid Measures  
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First Aid:GET IMMEDIATE MEDICAL HELP FOR ALL CASES

OF EXPOSURE.

EYES/SKIN:FLUSH WITH WATER FOR AT LEAST 30 MINUTES. HOLD EYELIDS OPEN. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NECESSARY. ORAL:DO NOT INDUCE VOMITING. IF CONSCIOUS, DRINK LARGE AMOUNT OF MILK/WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF VOMITING OCCURS SPONTANEOUSLY, KEEP AIRWAY CLEAR.

===== Fire Fighting Measures =====

Flash Point Method:PMCC

Flash Point:215F,102C

Lower Limits:1.9% @ 302F

Upper

Limits:11.6 @ 302F

Extinguishing Media:WATER FOG, CARBON DIOXIDE, FOAM/DRY CHEMICAL. FOR LARGE SCALE FIRES, ALCOHOL RESISTANT FOAMS ARE PREFERRED IF AVAILABLE.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS IN POSITIVE PRESSURE MODE. COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:HIGHLY TOXIC FUMES ARE RELEASED. DIRECT WATER STREAM MAY CAUSE VIOLENT FROTHING.

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

Spill Release Procedures:WEAR PROPER PROTECTIVE EQUIPMENT. VENTILATE AREA. DO NOT RELEASE INTO

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN STAINLESS STEEL. MAINTAIN A NITROGEN ATMOSPHERE. KEEP CONTAINER TIGHTLY CLOSED AWAY FROM INCOMPATIBLE MATERIALS AND FLAMES.

Other Precautions:CORROSIVE. DO NOT GET IN EYES, ON SKIN, ON CLOTHING. AVOID

BREATHING VAPORS/MIST. USE WITH ADEQUATE VENTILATION. EMPTY CONTAINERS RETAIN RESIDUE. OBSERVE ALL LABEL PRECAUTIONS. ELECTRICALLY GROUND EQUIPMENTS. KEEP OUT OF REACH OF CHILDREN.

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

Respiratory Protection:IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE CONCENTRATIONS BELOW TLV, USE OF NIOSH-APPROVED RESPIRATOR EQUIPPED WITH ORGANIC VAPOR CARTRIDGES MAY BE APPROPRIATE. FOR FIRE/EMERGENCY, USE SELF-CONTAIN

ED BREATHING APPARATUS.

Ventilation:USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS.

Protective Gloves:BUTYL RUBBER, PVC OR NITRILE

Eye Protection:SAFETY GLASSES+SIDE SHIELD/CHEM GOGGLES

Other Protective Equipment:USE RUBBER SPLASH APRON AND RUBBER BOOTS. EYEWASH AND SAFETY SHOWER SHOULD BE LOCATED NEARBY.

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING.

Supplemental Sa  
fety and Health

NOTE TO PHYSICIAN: MAY CAUSE TISSUE DESTRUCTION LEADING TO STRICTURE. IF LAVAGE IS PERFORMED, SUGGEST ENDOTRACHEAL AND/OR ESOPHAGOSCOPIC CONTROL. TREAT BURNS AS THERMAL BURNS, AFTER DECONTAMINATION. N O SPECIFIC ANTIDOTE. TREAT SYMPTOMATICALLY AND SUPPORTIVELY. EXCESSIVE EXPOSURE MAY AGGRAVATE PREEXISTING ASTHMA.

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

HCC:B2

NRC/State Lic Num:NOT RELEVANT

Boiling Pt.=198.9C, 390.F

Vapor Pres: