

FISHER SCIENTIFIC, CHEMICAL DIV. -- DIETHYLENETRIAMINE -- 6810-00-995-4804

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Product Identification
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Product ID:DIETHYLENETRIAMINE

MSDS Date:09/22/1989

FSC:6810

NIIN:00-995-4804

MSDS Number: BWCFV

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC, CHEMICAL DIV.

Address:1 REAGENT LANE

City:FAIR LAWN

State:NJ

ZIP:07410

Country:US

Info Phone Num:201-796-7100 OR 201-796-7523

Emergency

Phone Num:201-796-7100/800-424-9300(CHEMTREC)

CAGE:1B464

=== Contractor Identification ===

Company Name:FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address:1 REAGENT LANE

Box:City:FAIRLAWN

State:NJ

ZIP:07410-2802

Country:US

Phone:201-796-7100

CAGE:1B464

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Composition/Information on Ingredients
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Ingred Name:DIETHYLENETRIAMINE

CAS:111-40-0

RTECS #:IE1225000

Fraction by Wt: 100.0%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 PPM

ACGIH TLV:S, 1 PPM; 9394

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==== Hazards Identification =====

LD50 LC50 Mixture:LD50 ORAL RAT IS 1080 MG/KG/TLV 1 PPM.

Routes of Entry: Inhalation:NO Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, LIVER, KIDNEY, LUNG. ACUTE- CORROSIVE. INHALE:MAY CAUSE COUGH, LABOR BREATHING. EYE:MAY CAUSE PERMANENT DAMAGE. SKIN:MAY CAUSE BLISTERING & SENSITIZATION. ORAL:SORE THROAT, ABDOMINAL PAIN, HYPOTENSION, SLOW P

ULSE. CHRONIC- DERMATITIS, ASTHMA, LIVER, KIDNEY & LUNG EFFECTS.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:COUGHING, LABORED BREATHING, SHORTNESS OF BREATH, MUCOUS MEMBRANE IRRITATION, ALLERGIC SKIN SENSITIZATION & BLISTERING, CORNEAL DAMAGE, SORE THROAT, VOMITING, NAUSEA, ABDOMINAL PAIN, DIARRHEA, SLOW PULSE, CYANOSIS, COMA

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE

MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

==== First Aid Measures =====

First Aid:GET IMMEDIATE MEDICAL ATTENTION. EYE:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. SKIN:WASH WITH SOAP & WATER. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. ORAL:IF CONSCIOUS, DRINK WATER OR MILK AND ALLOW VOMITING TO OCCUR. AVOID GASTRIC LAVAGE OR EMETICS. ESOPHAGOSCOPY IS THE ONLY WAY TO EXCLUDE THE POSSIBILITY OF CORROSION IN THE UPPER GASTROINTESTINAL TRACT.

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

Flash Point Method:PMCC

Flash Point:208F,98C

Autoignition Temp:Autoignition Temp Text:676F

Lower Limits:2%

Upper Limits:6.7%

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, STANDARD FOAM, HALON OR DRY CHEMICALS. DO NOT GET WATER INSIDE CONTAINER.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. WATER

OR FOAM

MAY CAUSE FROTHING. MOVE CONTAINER FROM FIRE AREA IF POSSIBLE

Unusual Fire/Explosion Hazard:SLIGHT FIRE HAZARD.

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

Spill Release Procedures:VENTILATE AREA. REMOVE IGNITION SOURCES. DO NOT TOUCH SPILL. STOP LEAK IF POSSIBLE. REMOVE SMALL SPILL WITH SAND AND PLACE INTO CONTAINER FOR DISPOSAL. DIKE FAR AHEAD LARGE SPILLS. REDUCE VAPORS WITH WATER SPRAY. NO SMOKING ALLOWED.

Neutralizing Agent:WEAK ACID

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

Handling and Storage Precautions:STORE IN DRY, COOL PLACE AWAY FROM FLAMES & INCOMPATIBLES. KEEP OUT OF REACH OF CHILDREN.

Other Precautions:DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. DO NOT GENERATE MISTS OR VAPORS. DO NOT BREATHE MIST OR FUMES. DO NOT TAKE INTERNALLY. WASH THOROUGHLY AFTER HANDLING. FOR INDUSTRIAL USE ONLY.

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

Respiratory Protection

:USE ONLY WITH ADEQUATE VENTILATION OR WEAR NIOSH APPROVED ORGANIC VAPOR RESPIRATOR WHEN AIR CONCENTRATION IS GREATER THAN THE TLV OR PEL. USE CARTRIDGE FILTER FOR ALKALINE MIST.

Ventilation:LOCAL EXHAUST VENTILATION MAY BE NECESSARY FOR SOME OPERATIONS.

Protective Gloves:CHEMICAL RESISTANT GLOVES/RUBBER

Eye Protection:CHEMICAL SAFETY GOGGLES WITH SIDE SHIELD

Other Protective Equipment:CHEMICALLY RESISTANT COVERALLS, HAT AND SHOES OR BOOTS, EYE WASH AND SAFETY EQUIPMENT

Work Hygiene Practices:

WASH THOROUGHLY BEFORE EATING, DRINKING OR SMOKING.

Supplemental Safety and Health

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

HCC:B2

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:207.C, 404.6F

Melt/Freeze Pt:-39.C, -38.2F

Vapor Pres:0.37 @ 68F

Vapor Density:3.5

Spec Gravity:0.9586

Solubility in Water:SOLUBLE

Appearance and Odor:COLORLESS TO YELLOW HYGROSCOPIC LIQUID - AMINE ODOR

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

Sta

bility Indicator/Materials to Avoid: YES

STRONG OXIDIZING AGENTS, STRONG ACIDS, ALDEHYDES, KETONES, ZINC, COPPER AND ALLOYS, CELLULOSE NITRATE, ALUMINUM

Stability Condition to Avoid: EXCESSIVE HEAT

Hazardous Decomposition Products: MAY PRODUCE HIGHLY TOXIC HYDROGEN CYANIDE, AND TOXIC AND HAZARDOUS OXIDES OF CARBON AND NITROGEN.

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

Waste Disposal Methods: WASTE DISPOSAL TO BE PERFORMED IN COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS. SMALL QUANTITIES MAY BE DISSOLVED IN WATER AND NEUTRALIZED WITH ACID. THE NEUTRALIZED SOLUTION MAY BE FLUSHED DOWN THE DRAIN IF PERMITTED.

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