

FISHER SCIENTIFIC, CHEMICAL DIV. -- ETHYLENEDIAMINE -- 6750-00-965-4617

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

Product ID:ETHYLENEDIAMINE

MSDS Date:01/29/1992

FSC:6750

NIIN:00-965-4617

MSDS Number: BTCMR

=== 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)

Preparer's Name:DOD/HMIS (DGSC-SSH)

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

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

Ingred Name:ETHYLENEDIAMINE (SARA III)

CAS:107-15-3

RTECS #:KH8575000

Fraction by Wt: 99%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:10 PPM

ACGIH TLV

:S, 10 PPM; 9293  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

===== Hazards Identification =====

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 1460 MG/KG  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: CONTACT WITH SKIN AND EYES MAY CAUSE SEVERE IRRITATION OR BURNS. INHALATION OF VAPORS MAY CAUSE SEVERE RESPIRATORY IRRITATION. SWALLOWING MAY CAUSE SEVERE DIGESTIVE

SYSTEM IRRITATION AND BURNS TO MOUTH, THROAT, AND ESOPHAGUS.  
CHRONIC: MAY CAUSE PROLONGED OR REPEATED EXPOSURE MAY CAUSE LIVER OR KIDNEY DAMAGE.

Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1% OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.

Effects of Overexposure:INHALED: COUGHING, SHORTNESS OF BREATH, CHEST PAIN. EYES: BURNING SENSATION, REDNESS, TEARING, BLURRED VISION, PAIN. SKIN: REDNESS, SWELLING, PAIN. BURNS. INGESTED: SEVERE BURNS

AROUND MOUTH, SORE THROAT, SEVERE STOMACH PAIN, NAUSEA, VOMITING, DIARRHEA.

Medical Cond Aggravated by Exposure:PRE-EXISTING RESPIRATORY, LIVER, OR KIDNEY DISEASES MAY BE AGGRAVATED BY EXPOSURE.

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

First Aid:INHALED: MOVE TO FRESH AIR. GET MEDICAL ATTENTION. EYES: FLUSH WITH LOTS OF WATER FOR 15 MINUTES, HOLD LIDS OPEN. SEE DOCTOR. SKIN: REMOVE CONTAMINATED CLOTHES, FLUSH WITH LOTS OF WATER, THEN WASH WITH SOAP AND WATER. SEE DOCTOR. INGESTED:DO NOT INDUCE VOMITING! IF CONSCIOUS, GIVE LARGE AMOUNT OF WATER OR MILK TO DILUTE. GET IMMEDIATE MEDICAL ATTENTION.

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

Flash Point Method:PMCC  
Flash Point:101F,38C  
Autoignition Temp:Autoignition Temp Text:763F  
Lower Limits:2.6%  
Upper Limits:14.2%  
Extinguishing Media:WATER FOG, ALCOHOL FOAM, CARBON DIOXIDE, DRY CHEMICAL  
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING

APPARATUS AND  
FULL PROTECTIVE CLOTHING.

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

Spill Release Procedures:DO NOT ALLOW INTO SEWERS OR WATERWAYS. DILUTE WITH WATER AND RECOVER OR ABSORB WITH INERT MATERIAL AND PLACE IN A CONTAINER FOR DISPOSAL.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN A COOL, DRY PLACE BELOW 120F AND ABOVE 51F. STORE AWAY FROM INCOMPATIBLES.

Other Precautions:DO NOT STORE OR USE NEAR COPPER FIXTURES; THEY MAY QUICKLY CORRODE.

Other Precautions:DO NOT STORE OR USE NEAR COPPER FIXTURES; THEY MAY QUICKLY CORRODE.

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

Respiratory Protection:WHEN RESPIRATORY PROTECTION IS REQUIRED FOR CERTAIN OPERATIONS, USE NIOSH/MSHA APPROVED RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE. USE IN ACCORDANCE WITH 29 CFR 1910.134.

Ventilation:USE ONLY WITH ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST.

Protective Gloves:NEOPRENE

Eye Protection:

SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment:EYE WASH STATION & SAFETY SHOWER. CLOTHING TO PREVENT PROLONGED OR REPEATED SKIN CONTACT.

Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDRY CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

REQUEST FOR KODAK MSDS RECEIVED THROUGH TECH SUPPORT. KODAK CLAIMS TO HAVE SOLD THE FINE CHEMICALS BUSINESS TO FISHER SCIENTIFIC. FISHER WILL NOT SEND AN MSDS

FOR KODAK MATERIAL. SINCE THIS IS FOR AN

IDENTIFIABLE CHEMICAL, THIS MSDS MADE TO FULFILL THE NEED.

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

HCC:F6

Boiling Pt:B.P. Text:239F,115C

Melt/Freeze Pt:M.P/F.P Text:51.0F,10.6C

Vapor Pres:10 MM HG

Vapor Density:2.1(AIR=1)

Spec Gravity:>0.893(WATER=1)

Solubility in Water:COMPLETE

Appearance and Odor:COLORLESS LIQUID; AMMONIACAL ODOR

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

Stability Indicator

/Materials to Avoid: YES

STRONG MINERAL ACIDS, STRONG OXIDIZING AGENTS, HALOGENATED ORGANICS, ALDEHYDES, KETONES, AND ACRYLATES.

Stability Condition to Avoid: CONTACT WITH INCOMPATIBLES. AVOID SOURCES OF IGNITION.

Hazardous Decomposition Products: NITROGEN OXIDES

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

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. MANUFACTURER RECOMMENDS INCINERATION AT PERMITTED FACILITY.

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.

n.