

MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-312/31295-49-5.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:

31295-49-5

Code:

M

RTECS:

Code:

X

Name:

1,2-ETHANEDIAMINE, N-(2-AMINETHYL)-N'-(2-(1-PIPER

Other REC Limits:

N/K

OSHA PEL:

N/K

Code:

M

OSHA STEL:

Code:

ACGIH TLV:

N/K

Code:

M

ACGIH STEL:

N/P

Code:

Control Measures

Respiratory Protection:

USE AN APPROVED FULL-FACE AIR-PURIFYING RESPIRATOR.

Ventilation:

4 PROVIDE ADEQUATE LOCAL EXHAUST VENTILATION TO KEEP

Protective Gloves:

IMPERVIOUS

Eye Protection:

FACE SHIELD, CHEMICAL GOGGLES

Other Protective Equipment:

Equipment BOOTS, APRON, FULL-BODY SUIT, SAFETY SHOWER, EYE WASH FOUNTAIN

Work Hygienic Practices:

REMOVE & LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. DESTROY SHOES/OTHER LEATHER ITEMS WHICH CAN'T BE DECONTAMINATED.

Supplemental Safety and Health:

N/K

Health Hazards Data

LD50/LC50 Mixture:

ORAL LD50(RAT): 2140-3990 MG/KG

Route Of Entry Inds - Inhalation:

YES

Skin:

YES

Ingestion:

NO

Carcinogenicity Inds - NTP:

NO

IARC:

NO

OSHA:

N/K

Health Hazards Acute And Chronic:

EYES: SEVERE IRRITATION W/CORNEAL INJURY, PERMANENT VISION IMPAIRMENT, BLINDNESS. SKIN: ABSORPTION, BURNS, ALLERGIC REACTION. INGESTION: GASTROINTESTINAL IRRITATION, ULCERATION, MOUTH & THROAT BURNS. INHALATION: UPPER RESPIRATORY TRACT SENSITIZATION & IRRITATION. RESULTS OF IN VITRO MUTAGENICITY TESTS POSITIVE.

Explanation Of Carcinogenicity:

NONE

Signs And Symptoms Of Overexposure:

IRRITATION, BURNS, ULCERATION, SENSITIZATION 3

Medical Cond Aggravated By Exposure:

ASTHMA

First Aid:

EYES: WASH W/WATER >30 MINS. SKIN: FLUSH W/WATER >15 MINS. INGESTION: DON'T INDUCE VOMITING. GIVE LARGE AMOUNTS WATER/MILK. INHALATION: MOVE TO FRESH AIR. OBTAIN MEDICAL ATTENTION IN ALL CASES. PHYSICIAN'S NOTE: MAY CAUSE TISSUE DESTRUCTION LEADING TO STRICTURE. IF LAVAGE IS PERFORMED USE ENDOTRACHEAL/ESOPHAGOSCOPIC CONTROL. IF BURNS TREAT AS THERMO BURN AFTER DECONTAMINATION. NO SPECIFIC ANTIDOTE

Spill Release Procedures:

WEAR APPROPRIATE PROTECTIVE CLOTHING. LARGE: DIKE & PUMP INTO SUITABLE CONTAINERS. SMALL: DILUTE W/WATER & RECOVER/USE NONCOMBUSTIBLE ABSORBENT MATERIAL/SAND & SHOVEL INTO SUITABLE CONTAINERS. DON'T USE SAWDUST, WOOD CHIPS/OTHER CELLULOSIC MATERIALS.

Neutralizing Agent:

N/K

Waste Disposal Methods:

LARGE QUANTITIES COULD BE RECOVERED. INCINERATE IN ACCORDANCE W/FEDERAL, STATE & LOCAL REGULATIONS. DON'T DUMP INTO SEWERS, ON THE GROUND/INTO ANY BODY OF WATER.

Handling And Storage Precautions:

HOLD BULK STORAGE UNDER NITROGEN BLANKET. COPPER & ALLOYS OF COPPER SHOULD NOT BE USED AS THEY ARE QUICKLY CORRODED BY THE PRODUCT.

Other Precautions:

GROUND ALL TRANSFER EQUIPMENT.

Fire and Explosion Hazard Information

Flash Point Method:

PMCC

Flash Point:

Flash Point Text:

350F

Autoignition Temp:

Autoignition Temp Text:

N/A

Lower Limits:

N/R

Upper Limits:

N/R

Extinguishing Media:

WATER FOG, ALCOHOL FOAM, CO2, DRY CHEMICAL

Fire Fighting Procedures:

USE A POSITIVE-PRESSURE SCBA & FULL PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard:

WILL BURN UNDER THE RIGHT CONDITIONS OF HEAT & OXYGEN SUPPLY. CAN AUTOIGNITE IN AIR AT APPROXIMATELY 572F.

Physical/Chemical Properties

HCC:

B2

NRC/State LC No:

N/A

Net Prop WT For Ammo:

N/A

Boiling Point:

>265C, 509F

B.P. Text:

N/A

Melt/Freeze Pt:

N/A

M/P/F/P Text:

N/K

Decomp Temp:

N/A

Decomp Text:

N/K

Vapor Pres:

<1

Vapor Density:

N/A

Volatile Org Content %:

N/A

Spec Gravity:

0.989-0.995

VOC Pounds/Gallon:

N/A

pH:

N/K

VOC Grams/Liter:

N/A

Viscosity:

N/P

Evaporation Rate & Reference:

N/K

Solubility in Water:

COMPLETE

Appearance and Odor:

AMBER COLORED LIQUID W/AMINE ODOR

Percent Volatiles by Volume:

N/K

Corrosion Rate:

N/R

Conditions To Avoid Polymerization:

N/K

Reactivity Data

Stability Indicator:

YES

Stability Condition To Avoid:

EXCESSIVE HEAT

Materials To Avoid:

ACID, OXIDIZING MATERIAL, HALOGENATED ORGANIC COMPOUNDS, ALDEHYDES, KETONES, ACRYLATES, COPPER & COPPER ALLOYS

Hazardous Decomposition Products:

NITROGEN OXIDES

Hazardous Polymerization Indicator:

NO

Conditions To Avoid Polymerization:

N/K

Toxicological Information

Information:

N/P

MSDS Transport Information

Information:

N/P

Regulatory Information

Sara Title III Information:

N/P

Federal Regulatory Information:

N/P

State Regulatory Information:

N/P

Other Information

Other Information:

N/P

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