

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-312/31295-54-2.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:
31295-54-2
Code:
M
RTECS:

Code:
X
Name:
AMINOETHYLPIPERAZINYLETHYL-ETHYLENEDIAMINE
Other REC Limits:
NONE RECOMMENDED
OSHA PEL:
NOT ESTABLISHED
Code:
M
OSHA STEL:

Code:

ACGIH TLV:
NOT ESTABLISHED
Code:
M
ACGIHSTEL:
N/P
Code:

Control Measures

Respiratory Protection:
USE ONLY WITH ADEQUATE VENTILATION. DLA-HMIS: IF ENGINEERING CONTROLS OR EMERGENCY OCCURS; USE NIOSH/MSHA APPROVED RESPIRATOR OR SCBA, AS REQUIRED. USE IAW 29 CFR 1910.134.
Ventilation:
USE ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW REGULATORY LIMITS (PEL/TLV).
Protective Gloves:
IMPERVIOUS
Eye Protection:
SAFETY GLASSES/CHEMICAL SPLASH GOGGLES
Other Protective Equipment:
Equipment EYE WASH STATION & SAFETY SHOWER.
Work Hygienic Practices:
WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.
Supplemental Safety and Health:
N/P

Health Hazards Data

LD50LC50Mixture:
ORAL LD50 (RAT) IS UNKNOWN
Route Of Entry Inds - Inhalation:
YES
Skin:
NO
Ingestion:
NO
Carcinogenicity Inds - NTP:
NO
IARC:
NO
OSHA:
NO
Health Hazards Acute And Chronic:
ACUTE: INHALATION MAY CAUSE IRRITATION TO UPPER RESPIRATORY TRACT. MAY CAUSE RESPIRATORY SENSITIZATION OR ASTHMA IN SUSCEPTIBLE INDIVIDUALS. SKIN CONTACT MAY CAUSE ALLERGIC SKIN REACTION IN SUSCEPTIBLE PERSONS. EYE CONTACT MAY CAUSE IRRITATION WITH CORNEAL INJURY OR BLINDNESS. INGESTION/CHRONIC: NONE SPECIFIED BY MFR.
Explanation Of Carcinogenicity:
NO INGREDIENT OF A CONCENTRATION OF 0.1% OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.
Signs And Symptoms Of Overexposure:
INHALED: COUGHING, SHORTNESS OF BREATH, SNEEZING, SORE THROAT. EYES: REDNESS, TEARING, PAIN. SKIN: REDNESS, BURNS, PAIN, SWELLING.
Medical Cond Aggravated By Exposure:
NONE SPECIFIED BY MANUFACTURER.
First Aid:
EYES-FLUSH WITH WATER FOR 30 MINUTES. GET IMMEDIATE MEDICAL ATTENTION. SKIN-REMOVE WITH CLOTH OR TOWEL. WASH THOROUGHLY WITH SOAP AND WATER. SEE DOCTOR IF IRRITATION DEVELOPS. DO NOT USE A SOLVENT TO REMOVE! INHALED-REMOVE TO FRESH AIR IF SYMPTOMS OCCUR. SEE DOCTOR. INGESTED-DO NOT INDUCE VOMITING! IF CONSCIOUS, GIVE LOTS OF WATER OR MILK. TRANSPORT IMMEDIATELY TO NEAREST MEDICAL FACILITY.
Spill Release Procedures:
COVER SPILL WITH DRY ABSORBENT MATERIAL, SUCH AS SAND OR SAWDUST; SCOOP UP AND PLACE IN AN APPROPRIATE CONTAINER.
Neutralizing Agent:
NONE SPECIFIED BY MANUFACTURER.
Waste Disposal Methods:
LANDFILL OR INCINERATE UNDER CONDITIONS WHICH MEET LOCAL, STATE AND FEDERAL ENVIRONMENTAL CONTROL REGULATIONS.
Handling And Storage Precautions:
STORE IN A COOL, DRY PLACE AWAY FROM EXCESSIVE HEAT. GROUND ALL TRANSFER EQUIPMENT. THIS PRODUCT SHOULD NOT COME IN CONTACT WITH COPPER/COPPER ALLOYS.
Other Precautions:
HOLD BULK STORAGE UNDER NITROGEN BLANKET.

Fire and Explosion Hazard Information

Flash Point Method:
PMCC
Flash Point:

Flash Point Text:
310F,154C
Autoignition Temp:

Autoignition Temp Text:
N/K 3
Lower Limits:
UNKNOWN
Upper Limits:
UNKNOWN
Extinguishing Media:
MEDIA APPROPRIATE FOR SURROUNDING FIRE (EG SAND, ALCOHOL FOAM, CARBON DIOXIDE, DRY CHEMICALS).
Fire Fighting Procedures:
FIREFIGHTER SHOULD WEAR FULL PROTECTIVE CLOTHING INCLUDING POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS.
Unusual Fire/Explosion Hazard:
DURING A FIRE IRRITATING AND/OR TOXIC GASES MAY BE PRESENT FROM THE DECOMPOSITION/COMBUSTION PRODUCTS.

Physical/Chemical Properties

HCC:
N1
NRC/State LIC No:
N/R
Net Prop WT For Ammo:

Boiling Point:

B.P. Text:
482F,250C
Melt/Freeze Pt:

M.P./F.P Text:
UNKNOWN
Decomp Temp:

Decomp Text:
UNKNOWN
Vapor Pres:
<1 MM HG
Vapor Density:
6.53
Volatile Org Content %:

Spec Gravity:
0.99
VOC Pounds/Gallon:

PH: N/K
VOC Grams/Liter:

Viscosity:
UNKNOWN 4
Evaporation Rate & Reference:
UNKNOWN
Solubility in Water:
COMPLETE
Appearance and Odor:
AMBER, LOW VISCOUS LIQUID; AMINE ODOR
Percent Volatiles by Volume:
N/K
Corrosion Rate:
UNKNOWN

Reactivity Data

Stability Indicator:
YES
Stability Condition To Avoid:
NONE SPECIFIED BY MANUFACTURER. DLA-HMIS: AVOID EXPOSURE TO/CONTACT WITH INCOMPATIBLE MATERIALS.
Materials To Avoid:
ACIDS, STRONG OXIDIZING AGENTS, HALOGENATED ORGANIC COMPOUNDS.
Hazardous Decomposition Products:
THERMAL DECOMPOSITION WILL PRODUCE NITROGEN OXIDES.
Hazardous Polymerization Indicator:
NO
Conditions To Avoid Polymerization:
NONE SPECIFIED BY MANUFACTURER.

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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WARRANTY
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