

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

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

ACGIH STEL:
N/P

Code:

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

LD50LC50Mixture:

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 IRRITATIONWITH 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.

Flash Point Method:

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.	

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, indicators:
YES

Stability/Reactivity 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

MCD9-1

Regulatory Information

Case Title III Inf

State Regulatory Information: N/P

Other Information

lookChe

For R&D use only. Not for drug, household or other uses.
WARRANTY
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is

www.lookchem.com

guarantee of the properties of the product. Lookchem s

handling or t

terms and conditions of sale.