

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-454/4549-40-0.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:

4549-40-0

Code:

M

RTECS:

YZ0875000

Code:

M

Name:

N-NITROSOMETHYL VINYLAMINE (SARA 313) (CERCLA)

Other REC Limits:

NONE RECOMMENDED

OSHA PEL:

NOT ESTABLISHED

Code:

M

OSHA STEL:**Code:****ACGIH TLV:**

NOT ESTABLISHED

Code:

M

ACGIH STEL:**Code:****Code:**

Control Measures

Respiratory Protection:

NONE REQUIRED FOR NORMAL USE W/ADEQUATE VENTILATION. IN POORLY VENTILATED AREAS, USE NIOSH/MSHA APPROVED ORGANIC VAPOR RESPIRATOR.

Ventilation:

LOCAL EXHAUST IS RECOMMENDED FOR CONFINED AREAS. GENERAL MECHANICAL VENTILATION IS ADEQUATE FOR NORMAL USE. 7

Protective Gloves:

CHEMICAL RESIST GLOVES, (PVC).

Eye Protection:

SAFETY GLASSES. SPLASH PROOF GOGGLES.

Other Protective Equipment:

Equipment EYE BATH AND SAFETY SHOWER.

Work Hygienic Practices:

FOLLOW CURRENT H.M.I.S. REGULATIONS.

Supplemental Safety and Health:

NONE

Health Hazards Data

LD50/LC50 Mixture:

ORAL LD50 (RAT) IS UNKNOWN

Route Of Entry Inds - Inhalation:

YES

Skin:

YES

Ingestion:

YES

Carcinogenicity Inds - NTP:

YES

IARC:

YES

OSHA:

NO

Health Hazards Acute And Chronic:

ACUTE: EYES-MODERATE IRRITANT. SKIN-MODERATE IRRITANT. INHALATION-HIGH CONCENTRATIONS OF VAPORS MAY PRODUCE IRRITATION OF THE RESPIRATORY TRACT, HEADACHE, DIZZINESS, AND NAUSEA. INGESTION-SIMILAR TO INHALATION. CHRONIC: PROLONGED REPEATED OVEREXPOSURE TO THIS PRODUCT MAY LEAD TO SKIN SENSITIZATION OR DERMATITIS.

Explanation Of Carcinogenicity:

CHROMIUM: IARC MONOGRAPHS, VOL 49, PG 49, 1990: GRP 1. NTP 6TH ANNUAL RPT ON CARCINS, 1991: KNOWN TO BE CARCIN. (SUPP DATA)

Signs And Symptoms Of Overexposure:

INHALATION-HIGH CONCENTRATIONS OF VAPORS MAY PRODUCE IRRITATION OF THE RESPIRATORY TRACT, HEADACHE, DIZZINESS, & NAUSEA. SKIN-MODERATE IRRITATION. INGESTION-NAUSEA AND VOMITING.

Medical Cond Aggravated By Exposure:

SKIN DISORDERS, RESPIRATORY DISORDERS.

First Aid:

EYES: FLUSH WELL W/WATER FOR AT LEAST 15 MINUTES. CONTACT A PHYSICIAN IF IRRITATION PERSISTS. SKIN: WASH W/SOAP & WATER. INHALE: REMOVE PATIENT TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. INGEST: DO NOT INDUCE VOMITING. CONTACT A PHYSICIAN. IF VOMITING OCCURS, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO LUNGS.

Spill Release Procedures:

PREVENT SKIN & EYE CONTACT. USE NON-COMBUSTIBLE MATERIAL TO CONFINE &/OR ABSORB. ELIMINATE IGNITION SOURCES. VENTILATE AREA.

Neutralizing Agent:

NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods:

6 REMOVE TO A WASTE DISPOSAL FACILITY OPERATING IN COMPLIANCE W/FEDERAL, STATE & LOCAL REGULATIONS. HAZ WASTE CODES: D001 (IGNITABILITY); U031 (BUTYL ALCOHOL). RQ: 100 LBS.

Handling And Storage Precautions:

"EMPTY" CONTAINER RETAIN RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS.

Other Precautions:

DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND/EXPOSE SUCH CONTAINERS TO HEAT, SPARKS, FLAMES, STATIC ELECTRICITY OR OTHER SOURCES OF IGNIT.

Fire and Explosion Hazard Information

Flash Point Method:

OC

Flash Point:**Flash Point Text:**

-156F,-104C

Autoignition Temp:**Autoignition Temp Text:**

N/K

Lower Limits:

1.38%

Upper Limits:

36.5%

Extinguishing Media:

CARBON DIOXIDE, DRY CHEMICAL, FOAM.

Fire Fighting Procedures:

FIRE FIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS IN CONFINED AREAS.

Unusual Fire/Explosion Hazard:

VAPORS ARE HEAVIER THAN AIR & MAY TRAVEL ALONG GROUND, OR BE MOVED BY VENTILATION & BE IGNITED BY IGNITION SOURCE.

Physical/Chemical Properties

H2:

V2

NR/State LC No:

N/R

Net Prop WT For Ammo:**Boiling Point:****B.P. Text:**

10F-27F

Melt/Freeze Pt:**M.P./F.P. Text:**

N/K

Decomp Temp:**Decomp Text:**

N/K

Vapor Pres:

N/K

Vapor Density:

>1

Volatile Org Content %:**Spec Gravity:**

0.86 (H2O=1)

VOC Pounds/Gallon:**VOC Grams/Liter:****Viscosity:**

N/R

Evaporation Rate & Reference:

>1 (BUTYL ACETATE=1)

Solubility in Water:

APPRECIABLE 8

APPRECIABLE 8

Appearance and Odor:

BLUE OPAQUE LOW VISCOSITY LIQUID W/SWEET SOLVENT ODOR.

Percent Volatiles by Volume:

N/K

Corrosion Rate:

N/K

Conditions To Avoid Polymerization:**Conditions To Avoid Polymerization:****Reactivity Data****Stability Indicator:**

YES

Stability Condition To Avoid:

HEAT, SPARKS OPEN FLAMES.

Materials To Avoid:

STRONG OXIDIZING AGENTS.

Hazardous Decomposition Products:

OXIDES OF CARBON.

Hazardous Polymerization Indicator:

NO

Conditions To Avoid Polymerization:**Conditions To Avoid Polymerization:****Toxicological Information****Information:**

N/P

Information:

N/P

Regulatory Information

Sara Title III Information:

N/P

Federal Regulatory Information:

N/P

State Regulatory Information:

N/P

Other Information:

N/P

Information:

N/P

Information:</