

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-109/109-32-0.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:
109-32-0

Code:
M

RTECS:

Code:
X

Name:
SYNTHETIC ESTER % low Wt: 35. Code: M % high

Other REC Limits:
N/R

OSHA PEL:
100 PPM/75 STEL

Code:
M

OSHA STEL:

Code:

ACGIH TLV:
50 PPM/75 STEL; 9293

Code:
M

ACGIHSTEL:
N/P

Code:

Control Measures

Respiratory Protection:
NONE NORMALLY REQUIRED.

Ventilation:
NONE SPECIFIED BY MANUFACTURER.

Protective Gloves:
NITRILES IF PROLONGED/REPEATED CONTACT

Eye Protection:
GOGGLES IN HIGH PRESSURE APPLICATIONS. 7

Other Protective Equipment:
Equipment NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:
WASH WITH SOAP WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health:
NOTE TO PHYSICIAN: IN GENERAL, EMESIS INDUCTION IS UNNECESSARY IN HIGH VISCOSITY, LOW VOLATILITY PRODUCTS, I.E., MOST OILS AND GREASES. FORMULA CHANGED.

Health Hazards Data

LD50LC50Mixture:
ORAL LD50(RAT): N/P

Route Of Entry Inds - Inhalation:
YES

Skin:
YES

Ingestion:
NO

Carcinogenicity Inds - NTP:
YES

IARC:
NO

OSHA:
NO 5

Health Hazards Acute And Chronic:
TARGET ORGANS: NONE SPECIFIED BY MANUFACTURER. ACUTE: EYES-MAY BE MILDLY IRRITATING TO EYES. SKIN-RELEASE DURING HIGH PERSSURE USAGE MAY RESULT IN INJECTION INTO SKIN CAUSING LOCAL NECROSIS. PROLONGED OR REPEATED CONTACT MAY CAUSE ALLERGICSENSITIZATION AND MAY LEAD TO ABSORPTION OF LEAD. INHALATION- NOT EXPECTED TO BE A RELEVANT ROUTE OF EXPOSURE; HOWEVER, UNDER HIGH TEMERATURE CONDITIONS, VAPORS IRRITATING TO NOSE, THROAT & UPPER RESPIRATORY MAY BE PRODUCED. INGESTION-MAYRESULT IN ABSORP

Explanation Of Carcinogenicity:
NTP HAS DEMONSTRATED MERCAPTOBENZOTHAZOLE, 2 TO BE CARCINOGENIC.

Signs And Symptoms Of Overexposure:
IRRITATION AS NOTED IN ACUTE/CHRONIC HEALTH SECTION. LOCAL NECROSIS IS EVIDENCED BY DELAYED ONSET OF PAIN AND TISSUE DAMAGE A FEW HOURS OF INJECTION.

Medical Cond Aggravated By Exposure:
PRE-EXISTING SKIN DISORDERS OR EYE PROBLEMS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

First Aid:
INHALED: MOVE TO FRESH AIR. PROVIDE OXYGEN IF NEEDED. EYES: FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN:REMOVE CONTAMINATED CLOTHES. WIPE OFF EXCESS. WASH SKIN WITH SOAP & WATER. IF INJECTED UNDER SKIN, SEE PHYSICIAN PROMPTLY.INGESTED: DO NOT INDUCE VOMITING. IN GENERAL, NO TREATMENT IS NECESSARY UNLESS LARGE QUANTITIES OF PRODUCT ARE INGESTED. HOWEVER, GET MEDICAL ADVICE. INHALED: REMOVE VICTIM TO FRESH AIR & PROVIDE OXYGEN IF BREATHING DIFFICULT. G

Spill Release Procedures:
SCOOP UP EXCESS GREASE. CLEAN AREA WITH APPROPRIATE CLEANER.

Neutralizing Agent:
N/P

Waste Disposal Methods:
THIS PRODUCT CONTAINS LEAD. DISPOSE OF AS REQUIRED FOR MATERIALS CONTAINING EXTRACTABLE LEAD UNDER US EPA REGULATIONS.

Handling And Storage Precautions:
STORE IN COOL, DRY, VENTILATED PLACE WITH ADEQUATE VENTILATION. KEEP AWAY FROM OPEN FLAMES AND HIGH TEMPERATURES. 6

Other Precautions:
AVOID SKIN CONTACT. WASH WITH SOAP & WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET. LAUNDER CONTAMINATED CLOTHERS BEFORE REUSE. PROPERLY DISPOSE OF CONTAMINATED LEATHER ARTICLES, INCLUDING SH OES, THAT CANNOT BE DECONTAMINATED.

Fire and Explosion Hazard Information

Flash Point Method:
N/P

Flash Point:

Flash Point Text:
UNKNOWN

Autoignition Temp:

Autoignition Temp Text:
N/K

Lower Limits:
UNKNOWN

Upper Limits:
UNKNOWN

Extinguishing Media:
WATER FOG, FOAM, DRY CHEMICAL/CARBON DIOXIDE. DON'T USE DIRECT STREAM OF WATER. PRODUCT WILL FLOAT AND CAN BE REIGNITED.

Fire Fighting Procedures:
DO NOT ENTER ANY ENCLOSED OR CONFINED AREA WITHOUT PROPER PROTECTIVE EQUIPMENT AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:
UNKNOWN.

Physical/Chemical Properties

HCC:
V6

NRC/State LIC No:
N/P

Net Prop WT For Ammo:

Boiling Point:

B.P. Text:
NOT AVAILABLE

Melt/Freeze Pt:

M.P/F.P Text:
NOT AVAILABLE

Decomp Temp:

Decomp Text:
NOT AVAILABLE

Vapor Pres:
NOT AVAILABLE

Vapor Density:
N/A

Volatile Org Content %:

Spec Gravity:
NOT AVAILABLE

VOC Pounds/Gallon:

PH: N/R

VOC Grams/Liter:

Viscosity:
N/P

Evaporation Rate & Reference:
NOT AVAILABLE

Solubility in Water:
INSOLUBLE

Appearance and Odor:
TAN, SEMI-FLUID WITH SLIGHT ODOR.

Percent Volatiles by Volume:
N/P

Corrosion Rate:
N/P

Reactivity Data

Stability Indicator:
8 YES

Stability Condition To Avoid:
CONTACT WITH OPEN FLAMES, HEAT.

Materials To Avoid:
STRONG OXIDIZING AGENTS.

Hazardous Decomposition Products:
A COMPLEX MIXTURE OF AIRBORNE SOLID, LIQUID, PARTICULATES GASES WILL EVOVLE. CARBON MONOXIDE OTHER COMPOUNDS MAY FORM.

Hazardous Polymerization Indicator:
NO

Conditions To Avoid Polymerization:
WILL NOT OCCUR.

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