

# 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

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

## Control Measures

**Respiratory Protection:**

NONE NORMALLY REQUIRED.

**Ventilation:**

NONE SPECIFIED BY MANUFACTURER.

**Protective Gloves:**

NITRILES IF PROLONGED/REPEATED CONTACT

**Eye Protection:**

GOOGLES 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

**LD50/LC50/Mixture:**

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 PRESSURE USAGE MAY RESULT IN INJECTION INTO SKIN CAUSING LOCAL NECROSIS. PROLONGED OR REPEATED CONTACT MAY CAUSE ALLERGIC SENSITIZATION AND MAY LEAD TO ABSORPTION OF LEAD. INHALATION- NOT EXPECTED TO BE A RELEVANT ROUTE OF EXPOSURE; HOWEVER, UNDER HIGH TEMPERATURE CONDITIONS, VAPORS IRRITATING TO NOSE, THROAT & UPPER RESPIRATORY MAY BE PRODUCED. INGESTION-MAY RESULT IN ABSORP

**Explanation Of Carcinogenicity:**

NTP HAS DEMONSTRATED MERCAPTOBENZOTIAZOLE, 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 CLOTHES BEFORE REUSE. PROPERLY DISPOSE OF CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES, 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

**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

**Not Available:****Vapor Density:**

N/A

**Volatile Org Content %:****Spec AVAILABILITY:**

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-FUID WITH SLIGHT ODOR.

**Percent Volatiles by Volume:**

N/P

**Corrosion Rate:**

N/P

## Reactivity Data

**Stability Indicator:**

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 EVOLVE. 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:**

N/P