

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-112/112-90-3.html> for suppliers of this product.

### Composition/Information on Ingredient

112-90-3  
**Code:**  
M

**RTECS:**  
RG4130000  
**Code:**  
M

**Name:**  
9-OCTADECENYLAMINE, (Z)-; (OLEYLAMINE)

**Other REC Limits:**  
N/K

**OSHA PEL:**  
N/K (FP N)  
**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
N/K (FP N)  
**Code:**  
M

**ACGIH STEL:**  
N/P  
**Code:**

**Respiratory Protection:**  
NO SPECIAL REQUIREMENTS

RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN (FP N).

**Ventilation:**  
USE IN WELL VENTILATED AREA.

**Protective Gloves:**  
NO SPEC EQUIP REQD.

**Eye Protection:**  
ANSI APPRVD CHEM WORKERS GOGGLES (FP N).

**Other Protective Equipment:**  
Equipment EMERGENCY EYE WASH DELUGE SHOWER (FP N). 11

**Work Hygienic Practices:**

GOOD PERSONAL HYGIENE PRACTICES SHOULD ALWAYS BE FOLLOWED.

**Supplemental Safety and Health:**  
FIRE FIGHT PROC:RUNOFF FROM FIRE CONTROL/DILUTION FROM ENTERING STREAMS, SEWERS/DRINKING WATER SUPPLY. FIRST AID PROC:CALL PHYS, HOSPITAL EMER ROOM/POIS CTL CTR FOR ASSISTANCE. DO NOT INDUCE VOMIT/GIV E ANYTHING BY MOUTH TO UNCON PERSON. SPILL PROC:(800)424-9300. ABSORB ON FIRE RETARDANT TREATED SAWDUST, (ING 16)

## Health Hazard Data

**Route Of Entry Inds - Inhalation:**  
YES

**Skin:**  
YES

**Ingestion:**  
YES

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
9 ACUTE:INGEST:SLIGHTLY TOXIC. SKIN:SLIGHTLY TOXIC. MAY CAUSE SLIGHT IRRITATION ON PROLONGED/REPEATED CONTACT. EYE:MAY CAUSE SLIGHT IRRITATION. SUBCHRONIC TOX:SEV SOLV REFINED & SEV HYDROTREATED MINERAL BASE OILS HAVE BEEN TESTED @ MOBIL ENVIRON & HLTH SCIENCES LAB BY DERMAL APPLIC TO RATS 5 DAYS/WEEK (EFTS OF OVEREXP)

**Explanation Of Carcinogenicity:**  
NOT RELEVANT.

**Signs And Symptoms Of Overexposure:**  
HLTH HAZ:FOR 90 DAYS @ SIGNIFICANTLY HIGHER /THOSE EXPECTED DURING NORM INDUST EXPOS. EXAMINATION SHOWED NO ADVERSE EFTS.CHRONIC MOUSE SKIN PAINTING STUDIES SHOWED NO CARCINOGENIC EFFECTS. CHRONIC TOX :BASE OILS IN THIS PROD ARE SEV SOLV REFINED AND/OR SEV HYDROTREATED.

**Medical Cond Aggravated By Exposure:**  
NONE SPECIFIED BY MANUFACTURER.

**First Aid:**  
EYE:FLUSH THORO W/WATER FOR @ LEAST 15 MINS. IF IRRIT PERSISTS, CALL PHYS. SKIN:WASH W/SOAP & WATER. INHAL:REMOVE FROM FURTHER EXPOS. IF RESP IRRIT, DIZZ, NAUS, OR UNCON OCCURS, SEEK IMMED MED ASSISTANCE & CALL PHYS. IF BRTHG HAS SPED, USE MOUTH TO MOUTH RESUSCITATION. INGEST:NOT EXPECTED TO BE PROBLEM. HOWEVER, IF GREATER THAN 1/2 LITER(PINT) INGEST, IMMED GIVE 1-2 GLASSES OF WATER & (SUPDAT)

**Spill Release Procedures:**  
RPT SPILLS AS REQD TO APPROP AUTH. U.S. COAST GUARD REGS REQ IMMED RPTG OF SPILLS THAT COULD REACH ANY WATERWAY INCLDNG INTERMITTENT DRY CREEKS. RPT SPILL TO COAST GUARD TOLL FREE NO:(800)424-8802.IN CASE OF ACCIDENT/ROAD SPILL NOTIFY CHEMTREC(SUPDAT)

**Neutralizing Agent:**  
NONE SPECIFIED BY MANUFACTURER.

**Waste Disposal Methods:**  
PROD IS SUITABLE FOR BURNING IN ENCLOSED, CONTROLLED BURNER FOR FUEL VALUE/DISP BY SUPERVISED INCIN. SUCH BURNING MAY BE LIM PURSUANT TO RCRA. IN ADDTN, PROD IS SUITABLE FOR PROCESSING BY APPRVD RECYCLING FACILITY/CAN BE DISPOS OF @ ANY GOVT (ING 18)

**Handling And Storage Precautions:**  
NONE SPECIFIED BY MANUFACTURER.

**Other Precautions:**  
NONE SPECIFIED BY MANUFACTURER. 10

#### Flash Point Method:

**Flash Point:**

**Flash Point Text:**  
>330F,>166C

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/A

**Lower Limits:**  
0.6%

**Upper Limits:**  
7.0%

**Extinguishing Media:**  
CARBON DIOXIDE, FOAM, DRY CHEMICAL AND WATER FOG.

**Fire Fighting Procedures:**  
NIOSH/MSHA APPRVD SCBA & FULL PROT EQUIP (FP N). USE WATER TO KEEP FIRE EXPOS CNTNRS COOL. WATER SPRAY MAY BE USED TO FLUSH SPILLS AWAY FROM EXPOS. PVNT(SUPDAT)

**Unusual Fire/Explosion Hazard:**  
NONE.

**HCC:**

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
>600F,<sub>1</sub>>316C

**Melt / Freeze Pt:**

**M.P/F.P Text:**  
N/A

**Decomp Temp:**

**Decomp Text:**  
N/K

**Vapor Pres:**  
<0.1 @ 20C

**Vapor Density:**  
N/K

**Volatile Org Content %:**

**Spec Gravity:**  
0.9

**VOC Pounds/Gallon:**

**PH:** N/A

**VOC Grams/Liter:**

**Viscosity:**  
N/P

**Evaporation Rate and Reference:**  
NOT KNOWN

**Solubility in Water:**  
NEGLECTIBLE

**Appearance and Odor:**  
BROWN VISCOUS LIQUID, MILD ODOR

**Percent Volatiles by Volume:**  
N/K

**Corrosion Rate:**  
N/K

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Reactivity Data

YES

EXTREME HEAT. 12

**Materials To Avoid:**  
STRONG OXIDIZERS.

**Hazardous Decomposition Products:**  
CARBON MONOXIDE.

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
NOT RELEVANT.

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**Toxicological Informa**

## MSDS Transport Informa

Information: N/A

## Regulatory Information

### Sara Title III Info

**State Regulatory Information:** N/P

### Other Information

**Other Information:**N/P

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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 applicable to the product with regard to appropriate safety precautions. It does not represent any warranty of the propriety of the product. Lockhart shall not be held liable for any damage resulting from

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