

# MATERIAL SAFETY DATA SHEET

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Chemtrec: (800) 424-9300  
Supplier: The Orelube Corporation  
20 Sawgrass Drive  
Bellport, NY 11713

Date Prepared: 04/19/05

## 1 PRODUCT IDENTIFICATION

PRODUCT NAME: BOELUBE 70105  
SYNONYMS: None  
CHEMICAL FAMILY: Aqueous solution of organics  
PRODUCT USE: Synthetic water-soluble metalworking fluid

## NFPA

Health - 1  
Flammability - 1  
Reactivity - 0

## 2 PRECAUTIONARY INFORMATION

Can cause eye irritation. Prolonged and/or repeated skin contact can be irritating. Inhalation of mist or vapor can be irritating.

## 3 HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

COMPONENTS	OSHA PEL	OSHA TWA	ACGIH TLV-TWA	ACGIH TLV-STEL	CAS #	%
This Material Safety Data Sheet has been prepared under guidelines in OSHA Hazard Communication Standard 29 CFR 1910.1200.						
2-amino-2-methyl-1-propanol	n/e	n/e	n/e	n/e	124-68-5	< 5
Linear primary alcohol ethoxylate	n/e	n/e	n/e	n/e	Proprietary	< 5

n/e - not established

None of the components of this product at concentrations greater than or equal to 0.1% are listed as a carcinogen or potential carcinogen by NTP, IARC, and OSHA. Orelube recommends an exposure limit of 5 mg/m<sup>3</sup> based on data for oil mist in air.

## 4 HEALTH HAZARD DATA

EYE: Will cause acute eye irritation upon contact.

SKIN: Prolonged and/or repeated contact tends to remove skin oils, possibly leading to irritation and dermatitis.

INGESTION: Do not induce vomiting. Small amounts aspirated into lungs during ingestion or vomiting may cause mild to severe pulmonary injury. LD50 is not established; refer to Hazardous Ingredients for TLV. Ingestion can cause nausea and/or irritation of gastric system.

INHALATION: Mists or vapors may cause respiratory irritation.

EFFECTS OF OVEREXPOSURE: Prolonged and/or repeated inhalation may cause irritation to mucous membranes and respiratory passages. Prolonged and/or repeated skin contact may cause irritation.

## 5 FIRST AID MEASURES

SKIN: Wash off with plenty of soap and water. If irritation occurs, get medical attention.

EYE: Flush with large amounts of water. If any irritation persists, get medical attention.

INGESTION: Remove material from mouth. Do not induce vomiting. Get medical attention.

INHALATION: Remove to fresh air.

## 6 EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING MEASURES: This product may be an inhalation hazard and, unless ventilation is adequate, the use of approved respiratory protection is recommended. Avoid inhaling mists or vapors.

VENTILATION: Mechanical (general) is satisfactory. Use local exhaust in areas where mists or vapors are generated. If airborne concentrations pose a health hazard, become irritating, or exceed recommended limits, use a NIOSH-approved respirator.

HYGIENE MEASURES: Avoid contact with skin and eyes. Wash thoroughly after handling.

OCCUPATIONAL EXPOSURE LIMITS: No occupational exposure limits have been established.

HANDS: Protective gloves to avoid prolonged or repeated skin contact.

EYES: Splash goggles or face shield when eye contact may occur.

## 7 PHYSICAL / CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

COLOR: Clear amber

ODOR: Alkaline

BOILING POINT: Not determined

VAPOR PRESSURE: < 1 mm Hg @ 20 C

VAPOR DENSITY: Heavier than air

SPECIFIC GRAVITY: ~ 1.01 g/ml @ 20 C

DENSITY: ~ 8.4 lb/gal

SOLUBILITY IN WATER: Soluble

EVAPORATION RATE (Butyl acetate = 1): < 1

pH (Neat): 9.03

pH (5%): 8.50

## 8 STABILITY / REACTIVITY

STABILITY: Stable under normal conditions.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition will evolve oxides of carbon and nitrogen.

MATERIALS TO AVOID: Oxidizing agents.

## 9 FIRE / EXPLOSION DATA

FLASH POINT: None

AUTOIGNITION TEMPERATURE: Not determined.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None expected.

EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide, water spray.

SPECIAL FIRE FIGHTING PROCEDURES: Use air-supplied breathing equipment for enclosed areas.

## **10 SPILL / LEAK PROCEDURES**

Recover free product. Contain any spill to prevent entry to sewers or streams. Add sand, earth or suitable absorbent to spill area. Transfer to closed container.

## **11 WASTE DISPOSAL METHODS**

Separate any oily contaminants and if required, neutralize to pH 6.8-7.2, diluting with large amounts of water for disposal in accordance with local, state, and federal laws governing disposal of alkaline organics.

## **12 PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Store in closed containers away from heat or open flames. Do not store with oxidizing agents. Not for internal use. Empty containers may contain product residue. Do not cut heat or weld on or around empty containers. Avoid freezing temperatures.

## **13 TOXICOLOGICAL INFORMATION**

This product is a mixture not tested as a whole for toxicity. If sprayed or misted may cause chemical pneumonitis.

## **14 ECOLOGICAL INFORMATION**

This product is not expected to be harmful to aquatic organisms. This product is biodegradable. BOD<sub>5</sub> = 325,000 mg/g. COD = 796,000 mg/Kg.

## **15 REGULATORY INFORMATION**

All components of this product are listed on the TSCA Inventory.  
This product does not contain a SARA Title 3 Section 313 (40 CFR 372) reportable chemical.  
This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.  
CALIFORNIA PROPOSITION 65: No reportable components.

## **16 TRANSPORTATION INFORMATION**

Not regulated by US DOT, IMO, or ICAO.

## **17 OTHER INFORMATION**

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of The Orelube Corporation. The Orelube Corporation assumes no legal responsibility for the use or reliance upon this data.

Please note that the chemical identity of some or all of the ingredients that may or may not be listed herein is confidential business information and is being withheld as permitted by 29 CFR 1910.1200 and various State Right-to-Know Laws.