

## SAFETY DATA SHEET

<b>1. IDENTIFICATION</b>
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**Product identifier:** **Boelube 70105**  
  
**Manufacturer Name:** THE ORELUBE CORPORATION  
**Address:** 20 Sawgrass Drive  
 Bellport, NY 11713  
  
**Telephone number:** (631) 205-9700  
  
**Emergency phone number:** Infotrac 1-800-535-5053 / shipments in the USA and/or Canada  
 +1-352-323-3500 / shipments outside USA (international)  
  
**Recommended use:** Metal Working Fluid  
**Restrictions on use:** None known  
  
**Date of Preparation:** September 9, 2016

<b>2. HAZARD(S) IDENTIFICATION</b>
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**Classification:**

Physical	Health
Not hazardous	Skin Irritant Category 2 Eye Damage Category 1 Carcinogen Category 2 Specific Target Organ Toxicity – Repeat Exposure Category 2

**Label Elements:**



Danger!

**Hazard Statements**

Causes skin irritation  
 Causes serious eye irritation  
 Suspected of causing cancer  
 May cause damage to the liver, blood and kidneys through prolonged or repeated ingestion

**Precautionary Statements**

Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Do not breathe mist or vapor.  
 Wash thoroughly after handling.  
 Avoid release to the environment.  
 Wear protective gloves and eye protection.  
 IF exposed or concerned: Get medical attention.  
 IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical attention.

Take off contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor.

Store locked up.

Dispose of contents and container in accordance with local and national regulations.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Concentration
2-Amino-2-methyl-1-propanol	124-68-5	1-5%
Diethanolamine	111-42-2	1-5%
Alcohols, C12-13, ethoxylated	66455-14-9	1-5%

The exact percentage (concentration) and composition has been withheld as a trade secret.

### 4. FIRST-AID MEASURES

**Inhalation:** Remove person to fresh air. If irritation occurs or symptoms develop, get medical attention.

**Skin contact:** Remove contaminated clothing. Wash skin with soap and water for several minutes. If irritation develops and persists, get medical attention. Launder clothing before reuse.

**Eye contact:** Immediately flush eyes with water for 20 minutes while lifting the upper and lower lids. Get immediate medical attention.

**Ingestion:** Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to a person who is unconscious or convulsing. Get medical attention if symptoms develop.

**Most important symptoms/effects, acute and delayed:** May cause serious eye irritation or burns. Permanent damage may occur. May cause skin irritation. Inhalation of mists may cause upper respiratory tract irritation. Ingestion may cause gastrointestinal distress with nausea and diarrhea. Suspected of causing cancer. Risk of cancer depends on level and duration of exposure. Prolonged contact by ingestion may cause damage to the liver, blood and kidneys.

**Indication of immediate medical attention and special treatment, if necessary:** Immediate medical attention is required for eye contact.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** Use water fog, foam carbon dioxide or dry chemical to extinguish a fire involving this product.

**Specific hazards arising from the chemical:** Product is not flammable or combustible but may burn under fire conditions. Combustion may produce oxides of carbon and nitrogen.

**Special protective equipment and precautions for fire-fighters:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for all fires involving chemicals. Cool fire exposed containers with water.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment, and emergency procedures:** Wear appropriate protective clothing and equipment as described in Section 8. Avoid contact with eyes, skin and clothing.

**Environmental Precautions:** Prevent spill from entering sewers and water courses. Report releases as required by local and national authorities.

**Methods and materials for containment and cleaning up:** Contain and collect with an inert absorbent material. Place in an appropriate container for disposal. Clean spill area thoroughly.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Avoid breathing mists. Avoid contact with eyes, skin and clothing. Wash thoroughly with soap and water after handling.

**Conditions for safe storage, including any incompatibilities:** Store in a dry, cool, well-ventilated area. Keep in original containers. Store away from oxidizing agents.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure guidelines:**

2-Amino-2-methyl-1-propanol	None Established
Diethanolamine	0.2 ppm TWA (inhalable fraction and vapor) ACGIH TLV skin
Alcohols, C12-13, ethoxylated	None Established

**Appropriate engineering controls:** Use with adequate general or local exhaust ventilation to maintain exposure below occupational exposure limits.

**Individual protection measures:**

**Respiratory protection:** None needed under normal use conditions. If exposure limits are exceeded, an approved organic vapor/particulate respirator is recommended. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.

**Skin protection:** Impervious gloves recommended to avoid skin contact.

**Eye protection:** Safety goggles recommended to prevent eye contact.

**Other:** None known.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance (physical state, color, etc.):** Clear, yellowish liquid

**Odor:** Amine odor

<b>Odor threshold:</b> Not determined	<b>pH:</b> 9.03
<b>Melting point/freezing point:</b> Not determined	<b>Boiling Point:</b> Not determined
<b>Flash point:</b> >200°F (93.3°C)	<b>Evaporation rate (EtOH=1):</b> <1
<b>Flammability (solid, gas):</b> Not applicable	<b>VOC:</b> Not determined
<b>Flammable limits: LEL:</b> Not applicable	<b>UEL:</b> Not applicable
<b>Vapor pressure:</b> <1 mm Hg @20°C (68°F)	<b>Vapor density:</b> Not determined
<b>Relative density:</b> 1.01	<b>Solubility(ies):</b> Soluble in water
<b>Partition coefficient: n-octanol/water:</b> Not available	<b>Auto-ignition temperature:</b> Not applicable
<b>Decomposition temperature:</b> Not available	<b>Viscosity:</b> Not determined

## 10. STABILITY AND REACTIVITY

**Reactivity:** Not reactive under normal conditions of use.

**Chemical stability:** Stable.

**Possibility of hazardous reactions:** None known.

**Conditions to avoid:** None known.

**Incompatible materials:** Avoid oxidizing agents.

**Hazardous decomposition products:** Thermal decomposition may yield oxides of carbon and nitrogen.

**11. TOXICOLOGICAL INFORMATION****Acute effects of exposure:**

**Inhalation:** Inhalation of mists from heated product may cause minor irritation of the mucous membranes and upper respiratory tract.

**Ingestion:** Ingestion may cause gastrointestinal distress with nausea and diarrhea.

**Skin contact:** May cause irritation with redness and itching of the skin.

**Eye contact:** May cause serious irritation, redness, tearing and pain. Permanent damage may occur.

**Chronic Effects:** This product may cause damage to the liver, blood and kidneys through prolonged or repeated ingestion.

**Sensitization:** Components are not known to be sensitizers.

**Germ Cell Mutagenicity:** No adverse effects are expected. Components are not germ cell mutagens.

**Reproductive Toxicity:** No adverse effects are expected. Components are not reproductive toxins.

**Carcinogenicity:** Diethanolamine is listed by IARC as Probably Carcinogenic to Humans (group 2B). None of the other components are listed as carcinogens by IARC, NTP or OSHA.

**Acute Toxicity Values:**

Product Acute Toxicity Estimate: Oral LD50 > 2000 mg/kg

2-Amino-2-methyl-1-propanol: Oral rat LD50: 2900 mg/kg, dermal rabbit LD50 > 2000 mg/kg

Diethanolamine: Oral rat LD50: 1100 mg/kg, inhalation rat LC0: 3.35 mg/L/4 hr

Alcohols, C12-13, ethoxylated: Oral rat LD50: 13627 mg/kg, inhalation rat LC50 > 1.6 mg/L/4 hr (no deaths), dermal rabbit LD50 > 2000 mg/kg

**12. ECOLOGICAL INFORMATION****Ecotoxicity values:**

2-Amino-2-methyl-1-propanol: Lepomis macrochirus LC50: 190 mg/L/96 hr

Diethanolamine: Pimephales promelas LC50: 1370 mg/L/96 hr

Alcohols, C12-13, ethoxylated: Pimephales promelas LC50: 0.96 mg/L/96 hr, Pimephales promelas NOEC: 0.28 mg/L/30 days

**Persistence and degradability:**

2-Amino-2-methyl-1-propanol: Readily biodegradable > 60% in 28 days

Diethanolamine: Readily biodegradable - 50% in 28 days

Alcohols, C12-13, ethoxylated: Readily biodegradable 95% in 28 days

**Bioaccumulative potential:** No data available.

**Mobility in soil:** No data available.

**Other adverse effects:** None known.

**13. DISPOSAL CONSIDERATIONS**

Dispose in accordance with all local, state and national regulations. Local regulations may be more stringent than regional and national requirements. It is the responsibility of the waste generator to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

**14. TRANSPORT INFORMATION**

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT containers <2000 lbs		Not Regulated			
DOT container >2000 lbs	UN3082	Environmentally hazardous substances, liquid, n.o.s. (Diethanolamine)	9	PGIII	RQ

<b>TDG</b>		Not Regulated			
<b>IMDG</b>		Not Regulated			
<b>ICAO</b>		Not Regulated			

**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not applicable – product is transported only in packaged form.

**Special precautions:** None known.

## 15. REGULATORY INFORMATION

**Safety, health, and environmental regulations specific for the product in question.**

**CERCLA:** This product has an RQ of 2,000 lbs (based on the RQ of Diethanolamine of 100 lbs present at 1-4%). Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

**SARA Hazard Category (311/312):** Acute Health, Chronic Health

**EPA SARA 313:** This product contains the following chemicals regulated under SARA Title III, section 313:

Diethanolamine	111-42-2	1-5%
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**EPA TSCA Inventory:** All the components of this product are listed on the TSCA inventory or exempt.

**California Proposition 65:** This product contains the following chemicals known to the State of California to cause cancer and reproductive toxicity:

Diethanolamine	111-42-2	1-5%	Cancer
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## 16. OTHER INFORMATION

**NFPA Rating:** Health = 3      Flammability = 1      Instability = 0  
**HMIS Rating:** Health = 3\*      Flammability = 1      Physical Hazard = 0  
 \*Chronic Health Hazard

**SDS Revision History:** Convert to OSHA GHS Format

**Date of preparation:** September 9, 2016

**Date of previous revision:** March 1, 2015

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