The Orelube Corporation
Specialty Industrial Lubricants Since 1958

# SAFETY DATA SHEET

**Regulation (EC) No 1907/2006 and 2015/830 (REACH)**

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### 1.1 Product Identifier

**Trade Name** **Boelube 70105**

**SDS Date** September 9, 2016

### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

**Product Use**: Metal Working Fluid
**Uses Advised Against:** None known

### 1.3 Details of the Supplier of the Substance or Mixture

**Manufacturer:**
THE ORELUBE CORPORATION
20 Sawgrass Drive
Bellport, NY 11713
+1 (631) 205-9700

**EU Distributor:**

### 1.4 Emergency Telephone Number

**Emergency Spill Information** Infotrac +1-352-323-3500 (24-Hour number)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the Substance or Mixture (1272/2008 (CLP)

| Physical | Health | Environmental |
|---|---|---|
| Not hazardous | Skin Irritant Category 2 (H315)<br>Eye Damage Category 1 (H318) | Not hazardous |

### 2.2 Label Elements

Danger!

Contains: Diethanolamine and Alcohols, C12-13, ethoxylated

**Hazard Statements**
H315 Causes skin irritation
H318 Causes serious eye irritation

**Precautionary Statements**
P264 Wash thoroughly after handling.
P280 Wear protective gloves and eye protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P332+P313 If skin irritation occurs: Get medical attention.

P362+P364 Take off contaminated clothing and wash it before reuse.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor.
P501 Dispose of contents and container in accordance with local and national regulations.

**2.3 Other Hazards:** None

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.2 Mixtures**

| Chemical Name | CAS Number / EINECS Number / REACH Reg. Number | % (w/w) | CLP/GHS Classification (1272/2008) |
|---|---|---|---|
| 2-Amino-2-methyl-1-propanol | 124-68-5 / 204-709-8 | 1-5 | Skin Irritant Category 2 (H315)<br>Eye Irritation Category 2 (H319)<br>Aquatic Chronic Toxicity Category 3 (H412) |
| Diethanolamine | 111-42-2 / 203-868-0 | 1-5 | Acute Toxicity Category 4 (H302)<br>Skin Irritant Category 2 (H315)<br>Eye Damage Category 1 (H318)<br>Specific Target Organ Toxicity – Repeat Exposure Category 2 (H373)<br>Aquatic Chronic Toxicity Category 3 (H412) |
| Alcohols, C12-13, ethoxylated | 66455-14-9 / 500-165-3 | 1-5 | Acute Toxicity Category 4 (H302)<br>Skin Irritant Category 2 (H315)<br>Eye Damage Category 1 (H318) |

See Section 16 for full text of GHS Classifications.

## SECTION 4: FIRST AID MEASURES

**4.1 Description of First Aid Measures**

**First Aid**
**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.

**4.2 Most Important symptoms and effects, both 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.

**4.3 Indication of any immediate medical attention and special treatment needed**: Immediate medical attention is required for eye contact.

## SECTION 5: FIREFIGHTING MEASURES

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

**5.2 Special Hazards Arising from the Substance or Mixture:** Product is not flammable or combustible but may burn under fire conditions. Combustion may produce oxides of carbon and nitrogen.

**5.3 Advice 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.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1 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.

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

**6.3 Methods and Material for Containment and Cleaning Up:** Contain and collect with an inert absorbent material. Place in an appropriate container for disposal. Clean spill area thoroughly.

**6.4 Reference to Other Sections:**
Refer to Section 8 for personal protective equipment and Section 13 for disposal information.

## SECTION 7: HANDLING and STORAGE

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

**7.2 Conditions for Safe Storage, Including any Incompatibilities**: Store in a dry, cool, well-ventilated area. Keep in original containers. Store away from oxidizing agents.

**7.3 Specific end use(s):**
**Industrial uses:** Metal Working Fluid
**Professional uses:** Metal Working Fluid

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control Parameters:**

| Chemical Name | EU OEL | French OEL | German OEL | UK OEL |
|---|---|---|---|---|
| 2-Amino-2-methyl-1-propanol | None Established | None Established | 1 ppm TWA, 2 ppm STEL | None Established |
| Diethanolamine | None Established | 3 ppm TWA | 1 mg/m3 TWA (inhalable fraction and vapor), 1 ppm STEL (inhalable fraction and vapor) | None Established |
| Alcohols, C12-13, ethoxylated | None Established | None Established | None Established | None Established |

**8.2 Exposure Controls:**

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

**Personal Protective 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 EN Standards 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.

## SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

**9.1 Information on basic Physical and Chemical Properties**

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

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

**9.2 Other Information:** None available

## SECTION 10: STABILITY and REACTIVITY

**10.1 Reactivity:** Not reactive under normal conditions of use.
**10.2 Chemical Stability:** Stable.
**10.3 Possibility of Hazardous Reactions:** None known.
**10.4 Conditions to Avoid:** None known.
**10.5 Incompatible Materials:** Avoid oxidizing agents.
**10.6 Hazardous Decomposition Products:** Thermal decomposition may yield oxides of carbon and nitrogen.

## SECTION 11: TOXICOLOGICAL INFORMATION

**11.1 Information on Toxicological Effects:**

**Potential Health Effects:**
**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.

**Skin corrosion/irritation:** 2-amino-2-methyl-1-propanol, diethanolamine and alcohols, C12-13, ethoxylated have been shown to cause skin irritation is animal studies.
**Eye damage/ irritation:** Diethanolamine and alcohols, C12-13, ethoxylated have been shown to cause eye damage in studies with laboratory animals.
**Respiratory Irritation:** No data available. Expected to cause only temporary irritation.
**Respiratory Sensitization:** Product is not classified as a respiratory sensitizer.
**Skin Sensitization:** None of the components have been shown to cause skin sensitization.
**Germ Cell Mutagenicity:** No adverse effects are expected. Components are not germ cell mutagens.

**Carcinogenicity:** None of the components of this product are listed as carcinogens by the EU CLP.
**Reproductive Toxicity:** No adverse effects are expected. Components have not been shown to cause reproductive or developmental toxicity.

**Specific Target Organ Toxicity**:
**Single Exposure:** No data available.
**Repeat Exposure:** No data available.

**Aspiration Toxicity:** Does not meet the criteria for aspiration toxicity.

**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

## SECTION 12: ECOLOGICAL INFORMATION

**12.1 Toxicity:**
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

**12.2 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

**12.3 Bioaccumulative Potential:** No data available.
**12.4 Mobility in Soil:** No data available.
**12.5 Results of PBT and vPvB assessment:** Does not meet the criteria for PBT or vPvB.
**12.6 Other Adverse Effects:** No data available.

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1 Waste Treatment Methods:** 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.

## SECTION 14: TRANSPORTATION INFORMATION

| | 14.1 UN Number | 14.2 UN Proper Shipping Name | 14.3 Hazard Class(s) | 14.4 Packing Group | 14.5 Environmental Hazards |
|---|---|---|---|---|---|
| **US DOT containers <2000 lbs** | | Not Regulated | | | |
| **DOT container >2000 lbs** | UN3082 | Environmentally hazardous substances, liquid, n.o.s. (Diethanolammine) | 9 | PGIII | RQ |
| **Canadian TDG** | | Not Regulated | | | |

| | | | | | |
|---|---|---|---|---|---|
| **EU ADR/RID** | | Not Regulated | | | |
| **IMDG** | | Not Regulated | | | |
| **IATA/ICAO** | | Not Regulated | | | |

**14.6 Special Precautions for User:** None known.

**14.7 Transport in Bulk According to Annex III MARPOL 73/78 and the IBC Code:** Not applicable – product is transported only in packaged form.

## SECTION 15: REGULATORY INFORMATION

**15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture**

**EU Regulations:**

**RoHS**: Compliant

**German WGK:** 1

This SDS was prepared in accordance with EC No. 1907/2006 as amended. Classification under EC No. 1272/2008 as amended following the mixture rules.

**15.2 Chemical safety assessment:** Not required

## SECTION 16: OTHER INFORMATION

CLP/GHS Classification and H Phrases for Reference (See Section 3)
H302 Harmful if swallowed
H315 Causes skin irritation
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure
H412 Harmful to aquatic life with long lasting effects

**SDS Revision History:** Convert to REACH GHS Format
**Date of preparation:** September 9, 2016
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