

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 70105C

SDS Date September 30, 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)	Not hazardous
	Eye Damage Category 1 (H318)	

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) Eye Irritation Category 2 (H319) Aquatic Chronic Toxicity Category 3 (H412)
Diethanolamine	111-42-2 / 203-868-0	1-5	Acute Toxicity Category 4 (H302) Skin Irritant Category 2 (H315) Eye Damage Category 1 (H318) Specific Target Organ Toxicity – Repeat Exposure Category 2 (H373) Aquatic Chronic Toxicity Category 3 (H412)
Alcohols, C12-13, ethoxylated	66455-14-9 / 500-165-3	1-5	Acute Toxicity Category 4 (H302) Skin Irritant Category 2 (H315) 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: Not determined		
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: 0.995	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	Not Regulated		
ADR/RID			
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 30, 2016 **Date of previous revision:** March 1, 2015

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