The Orelube Corporation
Specialty Industrial Lubricants Since 1958

SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier: **Orelube H-68**

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: Synthetic Lubricating Oil
Restrictions on use: None known

Date of Preparation: December 15, 2015

2. HAZARD(S) IDENTIFICATION

Classification:

Physical	Health
Not Hazardous	Not Hazardous

Label Elements:

Not hazardous in accordance with the GHS and OSHA Hazcom 2012.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Concentration
Polyalphaolefin	Mixture	80-90%
1-Decene, homopolymer, hydrogenated	Proprietary	1-10%
Synthetic Ester	Proprietary	1-10%

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. If irritation develops and persists, get medical attention. Launder clothing before reuse.
Eye contact: Immediately flush eyes with water while lifting the upper and lower lids. Get medical attention if irritation persists**.**
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 mild eye irritation. Prolonged skin contact may cause irritation. Inhalation of mists may cause upper respiratory tract irritation. Ingestion may cause gastrointestinal distress with nausea and diarrhea.

Indication of immediate medical attention and special treatment, if necessary: Immediate medical attention is not generally required.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Use water fog, alcohol foam, carbon dioxide or dry chemical to extinguish a fire involving this product. Do not use solid water stream as this may spread the fire.

Specific hazards arising from the chemical: Product is not flammable or combustible but may burn in a fire. Combustion products are hazardous and may include oxides of carbon, nitrogen and phosphorus.

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. Use caution – surfaces will be very slippery.

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 vapors or mists. Avoid contact with eyes, skin and clothing. Wash thoroughly with soap and water after handling. Keep away from open flames and hot surfaces.

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:

Polyalphaolefin	None Established
1-Decene, homopolymer, hydrogenated	None Established
Synthetic Ester	None Established

Appropriate engineering controls: Use with adequate general or local exhaust ventilation to minimize exposures levels.

Individual protection measures:
Respiratory protection: None needed under normal use conditions. If exposure levels are excessive and irritation is experienced, a NIOSH 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 if needed to avoid prolonged skin contact.
Eye protection: Follow facility requirements. Safety goggles recommended if splashing is possible.
Other: None known.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.): Translucent oil
Odor: No characteristic odor

Odor threshold: Not determined	**pH:** Not applicable
Melting point/freezing point: Not determined	**Boiling Point:** Not determined
Flash point: >400°F (>204°C) COC	**Evaporation rate (butyl acetate =1):** <1
Flammability (solid, gas): Not applicable	**VOC:** Not determined
Flammable limits: LEL: Not determined	**UEL:** Not determined
Vapor pressure: Not determined	**Vapor density:** Not determined
Relative density: 0.84	**Solubility(ies):** Insoluble in water
Partition coefficient: n-octanol/water: Not available	**Auto-ignition temperature:** Not determined
Decomposition temperature: Not available	**Viscosity:** >20 cSt @ 40°C

10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions of use.
Chemical stability: Stable.
Possibility of hazardous reactions: None known.
Conditions to avoid: Extreme heat and open flames.
Incompatible materials: Avoid oxidizing agents and reducing agents.
Hazardous decomposition products: Thermal decomposition may yield oxides of carbon, nitrogen and phosphorus.

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 mild irritation and drying of the skin.
Eye contact: Contact may cause mild irritation with redness and tearing.
Chronic Effects: None known.
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: None of the components are listed as a carcinogen or suspect carcinogen by IARC, NTP or OSHA.

Acute Toxicity Values:
Polyalphaolefin: Oral Rat LD50 >5000 mg/kg, Inhalation rat LC50 >5 mg/L/4 hr, Dermal rabbit LD50 >2000 mg/kg
1-Decene, homopolymer, hydrogenated: Oral Rat LD50 >5000 mg/kg, Inhalation rat LC50 >5 mg/L/4 hr, Dermal rabbit LD50 >2000 mg/kg
Synthetic Ester: Oral Rat LD50 >2000 mg/kg, Inhalation rat LC50 >5 mg/L/4 hr, Dermal rat LD50 >2000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity values:
Polyalphaolefin: 96 hr LL50 Oncorhynchus mykiss >1000 mg/L, 48 hr EL50 daphnia magna >1,000 mg/L, 96 hr NOEC Selenastrum capricornutum >1,000 mg/L
1-Decene, homopolymer, hydrogenated: No data available.
Synthetic Ester: 96 hr LL50 Oncorhynchus mykiss >100 mg/L, 48 hr EL50 daphnia magna >100 mg/L, 72 hr EL50 Desmodesmus subspicatus >100 mg/L

Persistence and degradability: Polyalphaolefin and 1-decene, homopolymer, hydrogenated are not readily biodegradable. Synthetic ester is inherently biodegradable.
Bioaccumulative potential: Polyalphaolefin is not expected to bioaccumulate in aquatic organisms. Synthetic ester has a low potential to bioaccumulate in aquatic organisms.
Mobility in soil: Synthetic ester is expected to have low mobility in soil.
Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all local, state and federal regulations. No specific disposal method is recommended. Under RCRA, it is the responsibility of the user, at the time of disposal, to determine whether the product meets the RCRA criteria for hazardous waste. As sold, this product would not meet the criteria.

14. TRANSPORT INFORMATION

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT		Not Regulated			
TDG		Not Regulated			
IMDG		Not Regulated			
ICAO		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 is not subject to CERCLA reporting requirements as it is sold. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA Hazard Category (311/312): Not Hazardous

EPA SARA 313: This product contains the following chemicals regulated under SARA Title III, section 313:
None

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: None

16. OTHER INFORMATION

NFPA Rating: Health = 1 Flammability = 1 Instability = 0
HMIS Rating: Health = 1 Flammability = 1 Physical Hazard = 0

SDS Revision History: Convert to OSHA GHS Format
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