

## SAFETY DATA SHEET

### 1. IDENTIFICATION

**Product identifier:** Orelube BM-50

**Manufacturer Name:** THE ORELUBE CORPORATION  
**Address:** 20 Sawgrass Drive  
Bellport, NY 11713

**Telephone number:** (631) 205-9700

**Emergency phone number:** Chemtrec 1-800-424-9300 / shipments in the USA and/or Canada

**Recommended use:** Industrial Lubricating Grease

**Restrictions on use:** None known

**Date of Preparation:** September 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
Petroleum Paraffinic Base Oil	64742-70-7	80-100%
Zinc Oxide	1314-13-2	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. 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 and drying of the skin. Ingestion may cause gastrointestinal distress with nausea and diarrhea. Inhalation of mists may cause upper respiratory tract irritation.

**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, 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 carbon, nitrogen and zinc oxides.

**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 the generation of 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:**

Petroleum Paraffinic Base Oil	5 mg/m <sup>3</sup> TWA OSHA PEL (as oil mist) 5 mg/m <sup>3</sup> TWA ACGIH TLV (inhalable)
Zinc Oxide	5 mg/m <sup>3</sup> TWA (respirable fraction, 15 mg/m <sup>3</sup> TWA (total dust) OSHA PEL 2 mg/m <sup>3</sup> TWA ACGIH TLV (respirable fraction)

**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.):** White grease

**Odor:** No characteristic odor

<b>Odor threshold:</b> Not determined	<b>pH:</b> Not applicable
<b>Melting point/freezing point:</b> Not determined	<b>Boiling Point:</b> Not determined
<b>Flash point:</b> >300.2°F (>149°C) (petroleum base oil)	<b>Evaporation rate (butyl acetate =1):</b> <1
<b>Flammability (solid, gas):</b> Not applicable	<b>VOC:</b> Not determined
<b>Flammable limits: LEL:</b> Not determined	<b>UEL:</b> Not determined
<b>Vapor pressure:</b> Not determined	<b>Vapor density:</b> Not determined
<b>Relative density:</b> 0.90	<b>Solubility(ies):</b> Insoluble in water
<b>Partition coefficient: n-octanol/water:</b> Not available	<b>Auto-ignition temperature:</b> Not available
<b>Decomposition temperature:</b> Not available	<b>Viscosity:</b> >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.

**Hazardous decomposition products:** Thermal decomposition may yield carbon, sulfur and zinc oxides.

## 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. Prolonged skin contact may cause dermatitis.

**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 other components are listed as a carcinogen or suspect carcinogen by IARC, NTP or OSHA.

### Acute Toxicity Values:

Petroleum Paraffinic Base Oil: Oral Rat LD50 >5000 mg/kg, Inhalation rat LC50 >5.53 mg/L/4 hr, Dermal rabbit LD50 >2000 mg/kg

Zinc oxide: Oral rat LD50 >5000 mg/kg, Inhalation rat LC50 >1.79 mg/L/4 hr (no mortalities), Dermal rabbit LD50 >2000 mg/kg

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity values:

Petroleum Paraffinic Base Oil: 96 hr LL50 Pimephales promelas >100 mg/L, 48 hr EL50 daphnia magna >10,000 mg/L, 96 hr NOEL Pseudokirchnerella subcapitata >100 mg/L

Zinc oxide: 96 hr LC50 Danio rerio 23.06 mg/L, 48 hr EC50 daphnia magna 7.5 mg/L, 72 hr LC50 Pseudokirchnerella subcapitata 68 ug/L

**Persistence and degradability:** Petroleum paraffinic base oil is inherently biodegradable.

**Bioaccumulative potential:** Petroleum paraffinic base oil has the potential to bioaccumulate in aquatic organisms.

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

**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
<b>DOT</b>		Not Regulated			
<b>TDG</b>		Not Regulated			
<b>IMDG*</b>	UN3082	Environmentally hazardous substances, liquid, n.o.s. (zinc oxide)	9	PGIII	Marine Pollutant
<b>ICAO*</b>	UN3082	Environmentally hazardous substances, liquid, n.o.s. (zinc oxide)	9	PGIII	

\*Single packages or combination packages with inner containers of 5 kg/5 liters do not meet the definition of a marine pollutant per 2.10.2.7 (IMDG) or Environmentally Hazardous per Special provision A197 (ICAO) and can be shipped as unregulated

**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:** Oil spills are reportable to the National Response Center. Many states have more stringent release reporting requirements. Report spills as 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:

Zinc Oxide	1314-13-2	1-10%
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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 does not contain chemicals known to the State of California to cause cancer and reproductive toxicity.

**16. OTHER INFORMATION**

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

**SDS Revision History:** Section 14 IMDG, ICAO

**Date of preparation:** September 15, 2015

**Date of previous revision:** June 22, 2015

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