

## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY / UNDERTAKING

#### Product Identifier

**Product Name:** Vacuum Pump Lubricant

**Catalog Number:** 187100-05

**Chemical Name:** Lubricant

**Chemical Formula:** Not applicable

**Chemical Family:** Not applicable

**Hazard:** Practically non-toxic.

**Date of SDS Preparation:**

**Day:** 19

**Month:** January

**Year:** 2026

#### Details of the supplier of the safety data sheet

**Company Name:** Rocker Scientific Co.,Ltd.

**Address:** 11F, No. 402, Sec. 1, Ren'ai Rd., Linkou Dist., New Taipei City 244014, Taiwan (R.O.C.)

**Telephone:** + 886-2-26033311

### SECTION 2. HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

REGULATION (EC) No 1272/2008

For the full text of the H-Statements mentioned in this Section, see Section 2.2.

DIRECTIVE 67/548/EEC or 1999/46/EC

For the full text of the R-phrases mentioned in this Section, see Section 16

The substance/mixture is non-dangerous in accordance with Directive(S) 67/548/EEC with amendments and/ or 1999/45/EC with amendments

**Symbol(s):** Not Classified\*\*\*

#### Label Elements

**Labeled:** Not classified/No labeling required

**R-phrases(s):** None\*\*\*

**S-phrases(s):** None\*\*\*

#### Other Hazards

Physical-Chemical Properties: Contaminated surfaces will be extremely slippery.

Environmental properties: Should not be released into the environment.

## **Hazards Not Otherwise Classified (HNOC) or Not Cover by GHS**

Not applicable.

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### **Distillates Petroleum, contains < 3% DMSO**

CAS No.: 64742-52-5 (Distillates Petroleum)

CAS No.: 67-68-5 (Dimethyl Sulfoxide, DMSO)

Percent Range: > 97%

Percent Range Units: w/v

Hazard: Not Hazardous

#### **Other Components**

CAS No.: Mixture

Percent Range: < 3%

Percent Range Units: w/v

Hazard: Not Hazardous

**Hazardous ingredients: Do not contain hazardous substance nor substance with European workplace exposure limits in concentration above regulatory thresholds\*\*\***

**Additional information: Product containing mineral oil with less than 3% DMSO extract as measured by IP 346**

**For the full text of the R-phrases/ H-Statements mentioned in this Section, see Section 16.**

**Hazard:** Any ingredient(s) of this product listed as "Other component(s)" is not considered a health hazard to the user of this product.

### **SECTION 4. FIRST AID MEASURE**

#### **Description of First Aid Measures**

**General advice: IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.**

**Eye Contact:** Rinse thoroughly with plenty of water, also under the eyelids.

**Skin Contact: Remove contaminated clothing and shoes.** Wash skin with soap and plenty of water.

**Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person.** Call physician immediately.

**Inhalation:** None required.

#### **Most Important Symptoms and Effects, Both Acute and Delayed**

The most important known symptoms and effects are described in section 2 and/ or in section 11.

Inhalation of vapors in high concentration may cause irritation of respiratory system.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

#### **Indication of Any Immediate Medical Attention and Special Treatment Needed**

No data available.

## SECTION 5. FIREFIGHTING MEASURES

**Extinguishing Media:** Use media appropriate to surrounding fire conditions, such as carbon dioxide (CO<sub>2</sub>), ABC powder, foam, water spray or fog. Do not use a solid water stream as it may scatter and spread fire.

**Fire Fighting Instruction:** As in any fire, wear self-contained breathing apparatus pressure demand and full protective gear.

**Special Hazards:** Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### **Personal Precautions:**

Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

### **Environmental Precautions**

Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.

### **Containment and Clean-up Technique:**

Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g. dry sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

## SECTION 7. HANDLING AND STORAGE

### **Precautions for Safe Handling**

**Handling:** When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.

**Prevention of Fire and Explosion:** Take precautionary measures against static discharges: Ground/bond containers, tanks and transfer/receiving equipment.

**Hygiene Measures:** Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

### **Safe Storage**

**Storage:** Keep away from food, drink and animal feeding stuffs. Keep in a bonded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.

**Materials to Avoid:** Oxidizing agents. Strong acids.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL EQUIPMENT

**Exposure Limits of Oil Mist:** 10mg/m<sup>3</sup> for 15 minutes, 5mg/m<sup>3</sup> for 8 hours

**Engineering Control:** Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

**Personal Protective Equipment:** If the product is used in mixtures. It is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

**Respiratory Protection:** None under normal use conditions. In case of vapours and aerosol formation. Respirator with combination filter for vapour/particulate (EN 14387). The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

**Eye Protection:** If splashes are likely to occur, wear safety glasses with top and side-shields.

**Skin and Body Protection:** Wear suitable protective clothing, protective shoes or boots, long sleeved clothing.

**Hand Protection:** Fluorinated rubber or nitrile rubber protective gloves regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves.

**Environmental Exposure Controls:** The product should not be allowed to enter drains, water courses or the soil.

## SECTION 9. PHYSICAL / CHEMICAL PROPERTIES

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
<b>Appearance, Color</b>	Red, Limpid		
<b>Physical State:</b>	Liquid @20°C		
<b>PH</b>		Not applicable	
<b>Boiling Point/Boiling Range</b>		Not applicable	
<b>Flash Point</b>	232°C		Cleveland Open Cup(COC)
	450°F		Cleveland Open Cup(COC)
<b>Evaporation Rate</b>		No information available	
<b>Flammability Limits in Air</b>		No information available	
<b>Vapor Pressure</b>		No information available	
<b>Vapor Density</b>		No information available	
<b>Density</b>	879 kg/m <sup>3</sup>	@15°C	
<b>Water Solubility</b>		Insoluble	
<b>Solubility in Other Solvents</b>		No information available	
<b>Log Pow</b>		No information available	
<b>Autoignition Temperature</b>		Not applicable	
<b>Viscosity, Kinematic</b>	46 mm <sup>2</sup> /g	@0°C	ISO 3104
	6.75 mm <sup>2</sup> /g	@100°C	ISO 3104
<b>Explosive Properties</b>	Not explosive		
Oxidizing Properties	Not applicable		
Possibility of Hazardous Reactions	Not applicable		

## SECTION 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable under recommended storage conditions.

**Conditions to Avoid:** Temperatures above flash point, sparks, ignition points, flames, static electricity.

**Material to Avoid:** Strong oxidizing agents.

**Reactivity / Incompatibility:** None reported

**Hazardous Reaction:** None under normal processing

**Hazardous Decomposition:** None under normal processing

## SECTION 11. TOXICOLOGICAL INFORMATION

**Product Toxicological Data: LD50:** None reported

**Acute toxicity:** None reported

**Skin Corrosion/Irritation:** None classified

**Serious Eye Damage/Irritation:** None classified

**Respiratory Irritation:** None reported. High concentration vapors may cause irritation of respiratory system.

**Ingestion Irritation:** None reported. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Sensitization:** Not classified as a sensitizer.

**Mutation Data:** None reported

**Reproductive Toxicity:** None reported

**Germ Cell Mutagenicity:** None reported

**Carcinogenicity:** None reported

**Sub-chronic Toxicity:** No information available.

**STOT-single Exposure:** Not classified as hazardous for single dose.

**STOT-repeated Exposure:** Not classified as hazardous for repeated dose.

**Other Adverse Effects:** Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing)

## SECTION 12. ECOLOGICAL INFORMATION

**Product Ecological Information:** No ecological data available for this product

**Ingredient Ecological Information:** No ecological data available for the ingredients of this product

**Acute Aquatic Toxicity:** No ecological data available for this product

**Chronic Aquatic Toxicity:** Toxicity: No ecological data available for this product

**Effects on Terrestrial Organisms:** No data available

**Persistence and degradability:** No data available

**Bioaccumulation:** No data available

### **Mobility:**

Soil: Give its physical and chemical characteristics, the product generally shows low soil mobility.

Air: Loss by evaporation is limited.

Water: Insoluble. The product spreads on the surface of the water.

**PBT and vPvB Assessment:** No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

**Special Instructions (Disposal):** Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste and local regulations.

**Empty Containers:** Should be taken to an approved waste handling site for recycling or disposal.

**EWC Waste Disposal No.:** The following Waste Codes are only suggestions: 13 02 05. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

**NOTICE (Disposal):** These disposal guidelines are based on federal regulations and may be superseded by more stringent state or local requirements. Please consult your local environmental regulators for more information.

## SECTION 14. TRANSPORT INFORMATION

**UN:** Not regulated

**IMDG:** Not regulated

**ICAO/IATA:** Not regulated

**ADR/RID:** Not regulated

**AND:** Not regulated

## SECTION 15. REGULATORY INFORMATION

**Safety, Health and Environmental Regulations/Legislation:**

**IECSC:** Complies

**NZ10c:** Complies

**International Inventories:**

**EINECS/ELINCS:** Complies.

**TSCA:** Complies.

**DSL/NDSL:** Complies.

**ENCS:** Complies.

**IECSC:** Complies.

**KECL:** Complies.

**AICS:** Complies.

**PICCS:** Complies.

**NZ10C:** Complies.

**Chemical Safety Assessment:** No information available

## SECTION 16. OTHER INFORMATION

**Intended Use:** Vacuum Pump Oil

Full text of R-phrases referred to under sections 2 and 3: No information available.

**Date of SDS Preparation:** January 19, 2026

**Reference:** Regulation (EC) No. 1907/2006

### Legend:

NA - Not Applicable w/w - weight/weight

ND - Not Determined w/v - weight/volume

NV - Not Available v/v - volume/volume

CLP - European Regulation on classification, labelling and packaging of substances and mixtures

REACH - European Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines inventory of Chemicals and Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZ10C - New Zealand inventory of Chemical

### USER RESPONSIBILITY:

Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

**This information was compiled from current manufacturer's SDS's of the component parts of the product.**

**Disclaimer: The Manufacturer believes that the information contained in the Material Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily all inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements.**