Shenzhen 863 New Material and Technology Co., Ltd

Test Report

Material Safety Data Sheet

（MSDS）

Report No.	:	SAC2026-04554E
Customer	:	SHANDONG SHANRUN PETROCHEMICAL CO.,LTD.
Address	:	Residence of Daxing Town, Linshu County, Linyi City, Shandong Province
Sample Name	:	Lubricating grease for RV gear reducers

Edited by: Perria

Checked by: Ivan

Approved by: Sarah

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Material Safety Data Sheet (MSDS)

Part 1 Chemical Name and Product Identification			
Chemical name in Chinese:	Lubricating grease for RV gear reducers	**Manufacturer Name:**	Shandong Shanrun Petrochemical Co., Ltd.
Manufacturer Address:	Daxing Town Base, Linshu County, Shandong Province	**Postal Code:**	276707
Company emergency phone:	0539-6918678	**Fax number:**	05396911678
Product Applications:	This product is suitable for lubrication of RV reducer parts at the joints of various types of light robots, and is suitable for temperatures of -30 to 120°C.		

Part 2 Overview of Hazards		
GHS Hazard Classification:	Harmless	
GHS label elements:	Symbol	No matches
	Warning words	No warning words
	Hazard Description	Physical hazards: According to GHS standards, not classified as a hazardous substance. Health hazards: According to GHS standards, not classified as a health hazardous substance. Environmental hazards: According to GHS standards, not classified as an environmental hazardous substance.

GHS Precautionary: Statements:	Preventive measures	No preventive terminology
	Incident Response	No preventive terminology
	Safe storage	No preventive terminology
	Abandonment and disposal	No preventive terminology
	Other hazards not affecting classification	Not classified as flammable, but will burn
Main Symptoms and Emergency Overview:	According to animal experiments, no strong evidence has been found to prove that this product is carcinogenic. Under normal circumstances, this product will not harm health, but excessive exposure may cause irritation to the eyes, skin, and respiratory system. Improper cleansing may block skin pores, leading to oily acne, folliculitis, and other conditions. Used oil may contain harmful impurities.	

Part 3 Hazards identification

Chemical substance name	CAS	content%
base oil	8001-79-4	90-98
lithium soap	7620-77-1	2-10
Additive	/	1-5

Part 4 First Aid Measures

General Information:	Under normal usage conditions, it should not pose a health hazard.
Skin contact:	No medical emergency is needed. Remove contaminated clothing, wipe the affected areas clean, and wash with soap and water. Thoroughly clean clothes and shoes before reuse. Seek medical attention if necessary.
Eye contact:	No medical emergency is needed. Rinse with water for 15-20 minutes. Seek medical attention if necessary.
Inhalation:	No medical emergency is needed. If you have symptoms such as cough or difficulty breathing, it is recommended to see a doctor.

Intake:	Unless a large amount is ingested, medical emergency treatment is generally not necessary. As a precaution, it is recommended to see a doctor.
Main symptoms (acute/delayed effects):	Long-term inhalation of oil mist or vapor at high temperatures may cause inflammation of the respiratory organs. Prolonged or repeated skin contact can lead to irritation or skin inflammation. Eye contact may cause mild irritation to the eyes. Large amounts ingested may cause gastrointestinal inflammation, vomiting, and diarrhea.

Part 5 Fire-Fighting Measures

Particular Danger:	This product has no explosion hazard and is not classified as dangerous. Exposure to high heat, open flames, and strong oxidizers can easily cause combustion.
Fire extinguishing methods and extinguishing agents:	Foam fire extinguisher, carbon dioxide fire extinguisher, dry powder fire extinguisher. Sand is only suitable for small fires.
Harmful combustion products:	Incomplete combustion produces thick smoke, carbon monoxide, carbon dioxide, sulfur oxides, aldehydes, nitrogen oxides, phosphates, certain metal oxides, and other decomposition products.
Prohibited extinguishing agents:	Do not spray water.
Special protective equipment for firefighters:	In enclosed spaces, a breathing apparatus must be worn when approaching a fire source.

Part 6 Accidental Release Measures

Avoid contact with overflowed or released substances. For guidelines on the selection of personal protective equipment, see Chapter 8 of the Safety Data Sheet. For disposal information, see Chapter 13 of the Safety Data Sheet. Please comply with all applicable local or national regulations.

Emergency Handling:	Cut off the fire source, immediately contact the operating personnel, and have unrelated personnel quickly evacuate to a safe area and be isolated. Cut off the leak source as much as possible to prevent it from entering sewers, drainage ditches, bodies of water, and other spaces. Follow relevant fire safety procedures and refer to Chapter 8 of the Safety Data Sheet.
Protective measures for workers:	Avoid contact with skin and eyes.

Environmental protection measures:	Before the personnel arrive on site, try to contain the spilled material as much as possible. For small leaks, collect the spilled liquid with sawdust, sand, soil, or other absorbents, and place it in a sealed, leak-proof container for disposal. For large leaks, construct a berm or dig a pit to collect it, ensuring it does not flow into drains, rivers, water sources, or low-lying areas. Place the spilled material in an appropriate container for disposal. If soil and plants are contaminated, report to the relevant authorities. Disposal of waste should refer to Chapter 13 of the Safety Data Sheet.
Elimination method:	In the event of a large spill, use a vacuum pump to transfer it into a container. For small spills, use sawdust, sand, soil, oil-absorbing cotton, or other absorbents to prevent spreading and place them in a sealed container for disposal. In case of a land spill, take protective measures to cut off the source of contamination and minimize pollution to surface water. In case of a water spill, immediately use oil fences to prevent the loss of oil, warn nearby vessels, and use appropriate dispersants if necessary. Serious spills that cannot be handled should be reported to local authorities.

Part 7 Handling and Storage

General preventive measures:	Avoid prolonged or repeated contact with the skin, and wash thoroughly after contact. If there is a risk of inhaling vapors, sprays, or fumes, use local exhaust ventilation. Handle with care during transport to prevent damage to packaging and containers.
Safety handling precautions:	Operators must undergo specialized training and strictly follow operating procedures. Avoid contact with oxidizers. Equip the appropriate number of fire-fighting equipment and leak emergency handling devices. When loading and unloading 200-liter drum products, protective footwear should be worn. Empty containers may still contain harmful residues.
Storage conditions:	Keep the container sealed and do not store in open or unlabeled containers. Store in a cool, dry, and ventilated place, away from strong oxidizers, fire, heat sources, and flammable materials. Store at room temperature. Empty containers may still contain some residue; do not cut or weld, and do not expose to high temperatures or flames.

Part 8 Exposure Controls, Personal Protection	
Permissible concentration:	High Refined Mineral Oil Occupational Exposure Limit Allowable Concentration USA ACGIH: STEL: 10 mg/m3 Form: Mineral Oil Mist TWA: 5 mg/m3 Form: Mineral Oil Mist China MAC: No standard established
Engineering Control:	Provide exhaust ventilation or other engineering controls to ensure that the concentration of relevant substances in the air is below the standard limits.
Personal protective equipment:	Personal protective equipment should comply with relevant national standards. For specific details, please consult the personal protective equipment supplier.
Respiratory protection:	Respiratory protective equipment is not required under normal use conditions. If engineering control facilities do not maintain oil mist concentrations at levels sufficient to protect the health of relevant personnel, respiratory protection equipment that meets the requirements of relevant regulations must be selected. For specific details, please consult a respiratory protection equipment supplier.
Hand protection:	Use protective gloves that are oil-resistant and chemically resistant. It is recommended to use nitrile, neoprene, or PVC gloves. Replace contaminated gloves in a timely manner. Wash thoroughly with soap and water after handling.
Eye protection:	If splashing is possible, use safety goggles.
Skin and body protection:	Under normal usage conditions, no special skin or body protection equipment is required beyond regular work clothes. When there is a possibility of splashing, please select appropriate, permeable protective clothing and safety shoes according to the actual conditions of the workplace. Materials made of nitrile rubber are recommended.

Part 9 Physical and Chemical Properties			
Appearance:	Yellow uniform ointment	**Smell:**	No irritating odor
pH value:	Not applicable	**Drop point:**	>160℃ (typical value)
Explosion limits:	No information	**Vapor pressure:**	<.0.5MPa@40℃
Steam Density:	>1 (Air = 1)	**Solubility:**	Insoluble in water
Octanol/water partition coefficient:	>6 (estimated value)	**Autoignition temperature:**	260℃
Decomposition temperature:	No information	**Kinematic viscosity:**	Not applicable

Part 10 Stability and Reactivity	
Stability:	Stable.
Possible adverse reactions:	Contact with strong oxidizers.
Conditions to avoid:	Extreme temperatures, direct sunlight, contact with strong oxidizers, fire sources.
Incompatible materials:	Strong oxidizing agent.
Dangerous decomposition products:	Under normal storage conditions, hazardous decomposition products will not form.

Part 11 Toxicological Information	
Acute toxicity:	Acute oral toxicity test (single maximum limit test) showed that the LD50 for female and male rats was greater than 5000 mg/kg, indicating relative non-toxicity. Acute dermal toxicity test (single maximum limit test) showed that the LD50 for female and male rats was greater than 2000 mg/kg, indicating practically non-toxic.
Skin irritation or corrosion:	Mild irritation is expected. Prolonged or continuous contact with the skin, without proper washing, may cause skin inflammation.

Eye irritation or corrosion:	A mild irritation is expected.
Inhalation hazards:	Inhaling steam or oil mist may cause slight irritation.
Respiratory or skin allergies:	Expected not to be a skin sensitizer.
Germ cell mutagenicity:	No mutagenic risk.
Carcinogenicity:	Ingredients in this product with concentrations greater than 0.1% are not classified as carcinogens by the American Conference of Governmental Industrial Hygienists (ACGIH), the International Agency for Research on Cancer (IARC), or the European Commission (EC).
Specific target organ system toxicity — single exposure:	No expected harm.
Specific target organ system toxicity—repeated exposure:	No expected harm.
Specific target organ system tox icity—repeated exposure:	Used oil contains harmful impurities that accumulate during use. The viscosity and composition of these harmful impurities vary depending on the process of use. There may be risks to health and the environment during handling. Used oil should be handled with care, and skin contact should be avoided as much as possible. In animal experiments, continuous exposure to used engine oil has been shown to cause skin cancer.

Part 12 Ecological Information

Ecotoxicity:	No relevant data.
Durability and degradability:	Expected to be not easily biodegradable.
Potential bioaccumulation:	Contains components with potential for bioaccumulation.
Mobility in soil:	If it enters the soil, it will be absorbed by soil particles and will not be able to flow.

Part 13 Disposal Considerations

Residual waste:	It should be recycled or reused as much as possible, or collected and disposed of centrally by waste collectors recognized by relevant regulations.

Disposal of containers:	It should be disposed of, as much as possible, by waste collectors recognized by the relevant regulations.
Disposal Precautions:	Please use personal protective equipment. Avoid contact of waste with soil or discharge into drains. Use transportation tools, recycling devices, treatment, or storage equipment approved by authorities when handling or storing waste.

Part 14 Transport Information

During land, sea, and air transportation, this product is not classified as a hazardous material.

UN Dangerous Goods Number:	Not applicable.
UN Transport Name:	Not applicable.
UN Hazard Classification:	Not applicable.
Packaging Team:	Not applicable.
Marine pollutants:	Not applicable.

Part 15 Regulatory Information

According to relevant regulations in China, this product is not classified as a hazardous chemical.

Regulatory Information:	Regulations on the Safe Management of Hazardous Chemicals (Issued by the State Council on March 2, 2011) Provisions on the Safe Use of Chemicals in Workplaces ([1996] Ministry of Labor No. 423) GB 6944-2025 Classification and Nomenclature of Dangerous Goods GB/T 16483-2008 Content and Sequence of Items in Safety Data Sheets for Chemicals GB 13690-2009 General Rules for Chemical Classification and Hazard Communication GB 12268-2025 List of Dangerous Goods Names GB 15258-2009 Regulations for the Preparation of Chemical Safety Labels GBZ 2.1-2019 Occupational Exposure Limits for Chemical Hazards in Workplaces These and other regulations provide corresponding requirements for the safe use, production, storage, transportation, and loading/unloading of hazardous chemicals.

Part 16 Additional Information

Additional Information:	No data.

*** End of report ***

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