

## Safety Data Sheet

According to Hazard Communication Standard (29 CFR 1910.1200)

Extreme Pressure Lithium Grease NLGI 1

Version 1.0

Issue date: 07/03/2020

Revision date: 07/03/2020

SDS record number: CSSS-TCO-010-141503

### 1. Product and Company Identification

Material name	Extreme Pressure Lithium Grease NLGI 1
CAS #	See section 3
Product code	60090146
Product use	Suitable for lubricating bearings of high load mechanical equipment such as rolling and wrought machine. Application temperature range: -20°C~120°C。
Manufacturer/Supplier	
Supplier(Manufacturer):	SINOPEC LUBRICANT CO., LTD.
Address:	No. 6 Anning Zhuang West Road, Haidian District, Beijing, P.R.China
Contact person(E-mail):	csc.lube@sinopec.com
Telephone:	00-86-95388-3
Fax:	86-10-82410856
Emergency telephone Number:	00-86-95388-3

### 2. Hazards identification

#### GHS classification

Physical hazards	Not classified
Health hazards	Not classified
Environmental hazards	Not classified

#### GHS label elements

Hazard Pictograms	No hazard pictogram is used.
Signal word	No signal word is used.
Hazard statement	Not applicable.

#### Precautionary statement

Prevention	Not applicable.
Response	Not applicable.
Storage	Not applicable.
Disposal	Not applicable.
Other hazards	Not available.

### 3. Composition / Information on Ingredients

Components	CAS#	Percent
Thickener	Mixture	<8 % weight
Additive	Mixture	<10 % weight
Base oil	Mixture	>82% weight

### 4. First Aid Measures

#### First aid procedures

Eye contact	Flush with water for 15 minutes. If irritation occurs, get medical attention.
Skin contact	Flush skin with water, and then wash with soap and water. Get medical attention.
Inhalation	Remove victim to fresh air and provide oxygen. Get medical attention.
Ingestion	Do not induce vomiting. Get medical attention.

#### Notes to physician

Treat symptoms.

## 5. Fire Fighting Measure

### Flammable properties

Not available.

### Extinguishing media

#### Suitable extinguishing media

Carbon dioxide, foam, dry chemical and water fog.

#### Unsuitable extinguishing media

Water.

### Firefighting equipment/instructions

This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

### Hazardous combustion products

Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

## 6. Accidental Release Measures

### Personal precautions

Wear appropriate personal protective equipment when cleaning up spills.

### Environmental precautions

Do not let product enter drains.

### Methods for cleaning up

FOR LARGE SPILLS: Remove with vacuum truck or pump to storage/salvage vessels.

FOR SMALL SPILLS: Soak up residue with an absorbent such as clay, sand or other suitable material. Place in non-leaking container and seal tightly for proper disposal.

## 7. Handling and Storage

### Handling

Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water. Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'. Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

### Storage

Do not store in open or unlabeled containers. Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures. Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME.

## 8. Exposure Controls / Personal Protection

<b>Occupational exposure limits</b>	This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls:</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
<b>Individual protection measures, such as personal protective equipment:</b>	
<b>Eye / face protection</b>	Chemical Goggles, or Safety glasses with side shields.
<b>Skin protection</b>	Use protective gloves which is chemically resistant to this material. Use protective clothing and shoes which are chemically resistant to this material.
<b>Respiratory protection</b>	If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn.
<b>General hygiene considerations</b>	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

## 9. Physical & Chemical Properties

### Appearance

<b>Physical state</b>	Brushed uniform ointment
<b>Form</b>	Brushed uniform ointment
<b>Color</b>	Brown

**Odor** No peculiar smell

**Odor threshold** Not available

**pH** Not available

**Vapor pressure** Not available

**Vapor density** Not available

**Boiling point** Not available

**Melting point/Freezing point** Not available

**Solubility (water)** Not available

**Density** Not available

**Flash point** Not available

**Partition coefficient** Not available

**Flammability limits in air, upper, %by volume** Not available

**Flammability limits in air, lower, % by volume** Not available

**Auto-ignition temperature** Not available

**VOC** Not available

**Percent volatile** Not available

**Molecular Formula** Not available

**Molecular Weight** Not available

### Other data

**Viscosity** Not available

**Dissociation constant** Not available

**Dropping Point**  $\geq 180^{\circ}\text{C}$

**Grades** NO.1

**Worked Penetration,0.1mm** 310~340

## 10. Chemical Stability & Reactivity Information

**Reactivity** The substance is stable under normal storage and handling conditions.

<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	Incompatible materials. Extreme heat and high energy sources of ignition.
<b>Incompatible materials</b>	Strong oxidizers.
<b>Hazardous decomposition products</b>	Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.
<b>Possibility of hazardous reactions</b>	No hazardous reactions known.

## 11. Toxicological Information

### Toxicokinetics, metabolism and distribution:

**Non-human toxicological data:** Not available

### Information on toxicological effects:

#### Acute toxicity:

**LD50(Oral, Rat):** > 5000mg / kg BW

**LD50(Dermal, Rabbit):** Not available

**LC50(Inhalation, Rat):** >10000mg / m3

**Skin corrosion/Irritation:** Not classified

**Serious eye damage/irritation:** Not classified

**Respiratory or skin sensitization:** Not classified

**Germ cell mutagenicity:** Not classified

**Carcinogenicity:** Not classified

**Reproductive toxicity:** Not classified

**STOT- single exposure:** Not classified

**STOT-repeated exposure:** Not classified

**Aspiration hazard:** Not classified

## 12. Ecological Information

### Toxicity:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

**Persistence and degradability:** This product is expected to be inherently biodegradable.

**Bioaccumulative potential:** Bioaccumulation is unlikely due to the very low water solubility of this product; therefore bioavailability to aquatic organisms is minimal.

**Mobility in soil:** When released into the environment, adsorption to sediment and soil will be the predominant behavior.

**Results of PBT&vPvB assessment:** Not available.

**Other adverse effects:** Not available.

## 13. Disposal Considerations

**Disposal instructions** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport Information

### DOT

#### Basic shipping requirements:

**UN number** Not regulated

<b>Proper shipping name</b>	Not regulated
<b>Hazard class</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Environmental hazards</b>	No

#### IATA

<b>UN number</b>	Not regulated
<b>UN proper shipping name</b>	Not regulated
<b>Transport hazard class(es)</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Environmental hazards</b>	No

#### IMDG

<b>UN number</b>	Not regulated
<b>UN proper shipping name</b>	Not regulated
<b>Transport hazard class(es)</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Environmental hazards</b>	No

## 15. Regulatory Information

### US federal regulations

#### Toxic Substances Control Act (TSCA)

##### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

#### SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

#### SARA 311/312 Hazardous chemical

No

#### SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

#### Safe Drinking Water Act (SDWA)

Not regulated.

## 16. Other Information

### HMIS® ratings

Health: 0

Flammability: 1

Physical hazard: 0

### NFPA ratings

Health: 0

Flammability: 1

Instability: 0

**Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available.

**Issue date**

07-03-2020