

## Safety Data Sheet

According to Hazard Communication Standard (29 CFR 1910.1200)

HP-R Grease

Version 1.0

Issue date: 07/03/2020

Revision date: 07/03/2020

SDS record number: CSSS-TCO-010-141496

### 1. Product and Company Identification

Material name	HP-R Grease
CAS #	See section 3
Product code	60089785
Product use	Suitable for automotive wheel bearings and chassis points, particularly those operating under the high-temperature, high-load conditions, as well as water pump motors and other friction parts. Application temperature range: -30°C ~180°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	Specific target organ toxicity after repeated exposure	Category 2
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3

#### GHS label elements

##### Hazard Pictograms



Signal word	Warning
Hazard statement	May cause damage to organs <Hematological system, kidneys, spleen, liver > through prolonged or repeated exposure <Oral > Harmful to aquatic life with long lasting effects

#### Precautionary statement

Prevention	Do not breathe dust/fume/gas/mist/vapors/spray. Avoid release to the environment.
Response	Get medical advice/attention if you feel unwell.
Storage	Not applicable.
Disposal	Dispose of contents/container in accordance with local regulations.
Other hazards	Not available.

### 3. Composition / Information on Ingredients

Components	CAS#	Percent
Refined mineral oil	mixture	85%~90% weight
Complex lithium thickener	Trade secret	9 - 12 %weight
Diphenylamine	122-39-4	0.5- 2%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

Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

#### Unsuitable extinguishing media

Not available.

### 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

Carbon monoxide, carbon dioxide, and unidentified organic compounds.

## 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

Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

## 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

Keep container tightly closed in a dry and well-ventilated place.

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Diphenylamine (CAS 122-39-4)	TWA	10 mg/m <sup>3</sup>

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Diphenylamine (CAS 122-39-4)	TWA	10 mg/m <sup>3</sup>

#### Biological limit values

No biological exposure limits noted for the ingredient(s).

#### Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Individual protection measures, such as personal protective equipment:

##### Eye / face protection

No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

##### Skin protection

No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: Neoprene, Nitrile Rubber.

##### Respiratory protection

No respiratory protection is normally required. No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

##### General hygiene considerations

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

#### Physical state

Smooth buttery

#### Form

Smooth buttery

#### Color

Blue

#### 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

<b>Solubility (water)</b>	Not available
<b>Density</b>	Not available
<b>Flash point</b>	Not available
<b>Partition coefficient</b>	Not available
<b>Flammability limits in air, upper, %by volume</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>VOC</b>	Not available
<b>Percent volatile</b>	Not available
<b>Molecular Formula</b>	Not available
<b>Molecular Weight</b>	Not available
<b>Other data</b>	
<b>Viscosity</b>	Not available
<b>Dissociation constant</b>	Not available
<b>Grades</b>	NO.T2
<b>Worked Penetration,0.1mm</b>	235~265
<b>Dropping Point:</b>	≥260 °C

## 10. Chemical Stability & Reactivity Information

<b>Reactivity</b>	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>	May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
<b>Hazardous decomposition products</b>	Carbon monoxide, carbon dioxide, and unidentified organic compounds.
<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):** > 5 000 mg/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:** May cause damage to organs <Hematological system, kidneys, spleen, liver > through prolonged or repeated exposure <Oral >

**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:** Harmful to aquatic life with long lasting effects

### 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

**Proper shipping name** Not regulated

**Hazard class** Not regulated

**Packing group** Not regulated

**Environmental hazards** No

#### IATA

**UN number** Not regulated

**UN proper shipping name** Not regulated

**Transport hazard class(es)** Not regulated

**Packing group** Not regulated

**Environmental hazards** No

#### IMDG

**UN number** Not regulated

**UN proper shipping name** Not regulated

**Transport hazard class(es)** Not regulated

**Packing group** Not regulated

**Environmental hazards** 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)**

<b>Chemical name</b>	<b>CAS number</b>	<b>% by wt.</b>
Diphenylamine	122-39-4	0.5- 2%weight

**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.

**US state regulations**

**California Proposition 65**

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

Diphenylamine (CAS 122-39-4)

**16. Other Information**

**HMIS® ratings**

Health: 2  
Flammability: 1  
Physical hazard: 0

**NFPA ratings**

Health: 2  
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