SINOPEC

Safety Data Sheet

According to Hazard Communication Standard (29 CFR 1910.1200)

HP-R Grease

Version 1.0

Issue date: 07/03/2020

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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.

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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 (CO2) 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/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Diphenylamine (CAS 122-39-4)	TWA	10 mg/m3

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

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
Grades	NO.T2
Worked Penetention,0.1mm	235~265
Dropping Point:	≥260 °C

10. Chemical Stability & Reactivity Information

Reactivity	The substance is stable under normal storage and handling conditions.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Incompatible materials. Extreme heat and high energy sources of ignition.
Incompatible materials	May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Hazardous decomposition products	Carbon monoxide, carbon dioxide, and unidentified organic compounds.
Possibility of hazardous reactions	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)

Chemical name	CAS number	% by wt.
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