

## Safety Data Sheet

According to Hazard Communication Standard (29 CFR 1910.1200)

### GL-5 SAE 90 Heavy Duty Automotive Gear Oil

Version 1.0

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SDS record number: CSSS-TCO-010-141127

## 1. Product and Company Identification

Material name	GL-5 SAE 90 Heavy Duty Automotive Gear Oil
CAS #	See section 3
Product code	60112104
Product use	Suitable for lubrication of drive axle (front/rear axle) and some transmission gears, especially for vehicles with hyperbolic gears, adaptable to conditions of high speed/low torque, low speed/large torque or high speed/shock load
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
Highly refined mineral oil	Mixture	80 - 98% weight
Lubricating oils, petroleum, hydrotreated spent	64742-58-1	5 - 41% weight

## 4. First Aid Measures

### First aid procedures

Eye contact	No specific first aid measures are required. As a precaution, remove contact
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lenses, if worn, and flush eyes with water.

**Skin contact**

No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

**Inhalation**

No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

**Ingestion**

No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

**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**

Eliminate all sources of ignition in vicinity of spilled material.

**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. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value	Form
distillates (petroleum), solvent dewaxed heavy paraffinic (CAS 64742-65-0)	PEL	5 mg/m3 2000 mg/m3 500 ppm	Mist.

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)	TWA	5 mg/m3	Inhalable fraction.
distillates (petroleum), solvent dewaxed heavy paraffinic (CAS 64742-65-0)	TWA	5 mg/m3	Inhalable fraction.

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

Components	Type	Value	Form
distillates (petroleum), solvent dewaxed heavy paraffinic (CAS 64742-65-0)	Ceiling STEL	1800 mg/m3 10 mg/m3	Mist.

**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

<b>Physical state</b>	Liquid
<b>Form</b>	Liquid
<b>Color</b>	Light to Brown
<b>Odor</b>	Petroleum odor
<b>Odor threshold</b>	Not available
<b>pH</b>	Not available
<b>Vapor pressure</b>	<0.01 mmHg Maximum @ 37.8 °C(100 °F)
<b>Vapor density</b>	>1 Minimum
<b>Boiling point</b>	Not available
<b>Melting point/Freezing point</b>	Not available
<b>Solubility (water)</b>	Soluble in hydrocarbon solvents; insoluble in water.
<b>Density</b>	0.89 kg/l @ 20°C (68°F) (Typical)
<b>Flash point</b>	(Cleveland Open Cup) 180 °C (365 °F) Minimum
<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>	14 mm <sup>2</sup> /s ~ 21 mm <sup>2</sup> /s @ 100° C (212° F)
<b>Dissociation constant</b>	Not available
<b>Pour Point:</b>	Not available

## 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. Heat. Hot surfaces. Flames.
<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:

**distillates (petroleum), solvent dewaxed heavy paraffinic (CAS#64742-65-0)**

<b>LD50(Oral, Rat):</b>	> 5000 mg/kg bw
<b>LD50(Dermal, Rabbit):</b>	> 5000 mg/kg bw
<b>LC50(Inhalation, Rat):</b>	> 5.53 mg/L 4 h
<b>Skin corrosion/Irritation:</b>	Not classified
<b>Serious eye damage/irritation:</b>	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:

#### distillates (petroleum), solvent dewaxed heavy paraffinic (CAS#64742-65-0)

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LL50	> 100 mg/L	96h	Fish	OECD 203	N/A	N/A
EL50	> 10000 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

**Persistence and degradability:** This material is not expected to be readily biodegradable. The biodegradability of this material is based on an evaluation of data for the components or a similar material.

**Bioaccumulative potential:** Not available.

**Mobility in soil:** Not available.

**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  
**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)** 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.

#### US state regulations

**California Proposition 65**

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

distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)

distillates (petroleum), solvent dewaxed heavy paraffinic (CAS 64742-65-0)

## 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

06-11-2020