

## Safety Data Sheet

### According to Hazard Communication Standard (29 CFR 1910.1200)

L-QB 300 Thermal Conduction Oil

Version 1.0

Issue date: 06/11/2020

Revision date: 06/11/2020 SDS record number: CSSS-TCO-010-141131

## 1. Product and Company Identification

Material name L-QB 300 Thermal Conduction Oil

CAS # See section 3
Product code 60500328

Product use Suitable for closed and open loop heating system with the highest process

temperature less than 290 °C.

Manufacturer/Supplier

Supplier(Manufacturer): SINOPEC LUBRICANT CO., LTD.

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 00-86-95388-3

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 86-10-82410856

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 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** 

PreventionNot applicable.ResponseNot applicable.StorageNot applicable.DisposalNot applicable.Other hazardsNot available.

# 3. Composition / Information on Ingredients

Components	CAS#	Percent	Percent	
Mineral oil	8042-47-5	98-99.9%weight		
Antioxidant	68411-46-1	0.1-2".0%weight		

### 4. First Aid Measures

First aid procedures

Eye contact No specific first aid measures are required. As a precaution, remove contact

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.

Material name: L-QB 300 Thermal Conduction Oil Version #:1.0 Revision date: 06-11-2020. Issue date: 06-11-2020.

#### Inhalation

Ingestion

Notes to physician

5. Fire Fighting Measure

Flammable properties

**Extinguishing media** 

Suitable extinguishing media
Unsuitable extinguishing media

Firefighting equipment/instructions

**Hazardous combustion products** 

6. Accidental Release Measures

**Environmental precautions** 

Personal precautions

Methods for cleaning up

7. Handling and Storage

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.

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

Treat symptoms.

Not available

Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames. Not available

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.

Carbon monoxide, carbon dioxide, and unidentified organic compounds.

Eliminate all sources of ignition in vicinity of spilled material.

Do not let product enter drains.

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.

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

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	Туре	Value	Form
Mineral oil (CAS 8042-47-5)	PEL	5 mg/m3	Mist.

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	Form	
Mineral oil (CAS 8042-47-5)	TWA	5 mg/m3	Inhalable fraction.	

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

Components	Туре	Value	Form
Mineral oil (CAS 8042-47-5)	STEL	10 mg/m3	Mist.
	TWA	5 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** 

Physical state Liquid
Form Liquid

ColorLight Yellow to BrownOdorNon-odor or slight odor

Odor thresholdNot availablepHNot available

Vapor pressure <0.5Pa@20 °C (Typical)

Vapor density >1 Minimum

Material name:L-QB 300 Thermal Conduction Oil Version #:1.0 Revision date: 06-11-2020. Issue date: 06-11-2020.

**Boiling point** 291°C (Estimated value)

Melting point/Freezing point Not available

Solubility (water) Insoluble in water.

**Density**  $0.83 \text{ kg/l} - 0.90 \text{ kg/l} (20^{\circ}\text{C}) (68^{\circ} \text{ F})$ 

Flash point (Cleveland Open Cup) 180 °C (356°F) Minimum

Partition coefficient

Flammability limits in air, upper, %by volume

Flammability limits in air, lower, % by volume

Not available

Not available

**Auto-ignition temperature** 328 °C (608°F) Minimum

VOCNot availablePercent volatileNot availableMolecular FormulaNot availableMolecular WeightNot available

Other data

**Viscosity** 20 mm2/s - 40 mm2/s @40°C (104° F)

Dissociation constant Not available

Pour Point: -12°C (9°F) (Typical)

# 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. Heat. Hot surfaces. Flames.

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:

Mineral oil (CAS#8042-47-5)

LD50(Oral, Rat): > 5000 mg/kg bw LD50(Dermal, Rabbit): > 2000 mg/kg bw LC50(Inhalation, Rat): > 5 mg/L 4 hSkin corrosion/Irritation: Not classified Serious eye damage/irritation: Not classified Not classified Respiratory or skin sensitization: Not classified Germ cell mutagenicity: Carcinogenicity: Not classified Reproductive toxicity: Not classified Not classified STOT- single exposure: Not classified STOT-repeated exposure: Aspiration hazard: Not classified

# 12. Ecological Information

**Toxicity:** 

# Mineral oil (CAS#8042-47-5)

Acute to	xicity	Time	Species	Method	Evaluation	Remarks
LL50	> 10000 mg/L	96h	Fish	OECD 203	N/A	N/A
LL50	> 100 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:

Mobility in soil:

Results of PBT&vPvB assessment:

Other adverse effects:

Not available.

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.

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