

Safety Data Sheet

According to Hazard Communication Standard (29 CFR 1910.1200)

L-HV 68 Low Temperature Hydraulic Oil

Version 1.0 Issue date: 06/11/2020 Revision date: 06/11/2020

SDS record number: CSSS-TCO-010-141141

1. Product and Company Identif	ication			
Material name L-HV 68 Low Temperature Hydraulic Oil				
CAS #	See section 3			
Product code	60206870			
Product use	Suitable for lubrication of moderate/high pressure system working in conditions of outdoor, severe cold regions and large ambient temperature variation or severe condition, such as hydraulic system of engineering, construction, mining and oil field machineries as well as ships and vehicles.			
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	
Mineral oil			8042-47-5	97.0 – 99.9%weight	
Phosphorodithioic	acid,	O,O-di-C1-14-alkyl	68649-42-3	0.1 2.00 /weight	
esters, zinc salts			66649-42-3	0.1 - 3.0%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

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

Personal precautions Environmental precautions Methods for cleaning up

7. Handling and Storage

shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse. 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 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	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 Chemi	cal 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 accordan	Handle in accordance with good industrial hygiene and safety practice. Wash				
	hands before break	hands before breaks and at the end of workday.				
Individual protection measures, such as	s personal protective equip	oment:				
Eye / face protection	No special eye pro	No special eye protection is normally required. Where splashing is possible, we				
	safety glasses with	safety glasses with side shields as a good safety practice.				
Skin protection	No special protecti	No special protective clothing is normally required. Where splashing is possible				
	select protective	select protective clothing depending on operations conducted, physica				
	requirements and	requirements and other substances in the workplace. Suggested materials for				
	protective gloves in	clude: Neoprene, Nitrile Rubb	er.			
Respiratory protection	No respiratory prote	No respiratory protection is normally required. No respiratory protection is ordinaril				
	required under no	rmal conditions of use. In a	accordance with good industri			
	hygiene practices, precautions should be taken to avoid breathing of material. I					
	user operations generate an oil mist, determine if airborne concentrations are					
	below the occupational exposure limit for mineral oil mist. If not, wear an approve					
	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 respirator				
	may not provide adequate protection. Wash hands, forearms and face thoroughly after handling chemical products,					
General hygiene	Wash hands, forea	ins and face inoroughly after	nandling chemical products,			

Appearance

Physical state	Liquid
Form	Liquid
Color	Light to Brown
Odor	Petroleum odor
Odor threshold	Not available
рН	Not available

Vapor density >1 Minimum	
Boiling point>280°C (Estimated value)	
Melting point/Freezing point Not available	
Solubility (water) Insoluble in water.	
Density 0.84 kg/l - 0.93 kg/l(20 °C) (68° F)	
Flash point(Cleveland Open Cup) 220 °C (428 °F) Mir	imum
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 61.2 mm2/s - 74.8 mm2/s @40°C (104°	F)
Dissociation constant Not available	
Pour Point:-33°C (-27.4° 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 h
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:

Mineral oil (CAS#8042-47-5)

	Acute toxicity		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 202	N/A	N/A
Persistence				Ū	expected to be re		
					ed on an evaluation		
			materia				·
Bioaccumul	lative pote	ential:	Not ava	ailable.			
Aobility in s	soil:		Not ava	ailable.			
esults of F	PBT&vPvB	assessment:	Not ava	ailable.			
Other adver	se effects	:	Not ava	ailable.			
3. Dispo	sal Cons	siderations					
Disposal ins	structions		Dispos	e of	contents/cor	itainer ir	n accord
			local/re	gional/nationa	al/international re	gulations.	
Contaminat	ed packag	jing	Since e	emptied conta	ainers may retain	product resid	ue, follow labe
			after co	ontainer is em	ptied.		
4. Trans	port Info	ormation					
от							
Basic s	hipping re	equirements:					
UN num	nber		Not reg	julated			
Proper	shipping I	name	Not reg	julated			
Hazard	ard class Not regulated						
Packing	g group		Not reg	julated			
Environmental hazards			No				
TA							
UN number			Not reg				
UN proper shipping name Not regulated							
Transport hazard class(es)			Not reg				
Packing group			Not reg	julated			
	mental ha	azards	No				
MDG UN num	- h - v		Netres	u de te d			
			Not reg				
	per shippi ort bazard	class(es)	Not regulated				
Packing		Class(es)	Not regulated				
_	mental ha	zarde	Not regulated No				
			NO				
•	-	ormation					
JS federal r	-						
		ntrol Act (TSCA)		7 Cubert D			
ISCA S		(b) Export Notificatio	on (40 CFR 70	n, Subpt. D)			

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Phosphorodithioic acid, O,O-di-C1-14-alkyl Listed.

esters, zinc salts (CAS 68649-42-3)

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.
Phosphorodithioic acid, O,O-di-C1-14-alkyl	68649-42-3	0.1 - 3.0%weight
esters, zinc salts		

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.				
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