

Safety Data Sheet

According to Hazard Communication Standard (29 CFR 1910.1200)

L-HM 68 Ashless Anti-wear Hydraulic Oil

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

1. Product and Company Identification

SDS record number: CSSS-TCO-010-141138

T. Product and Company Identification					
Ma	aterial name	L-HM 68 Ashless Anti-wear Hydraulic Oil			
CAS #		See section 3			
Pr	oduct code	60509162			
Pr	oduct use	Suitable for hydraulic system of equipment.			
Ma	anufacturer/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			
Er	nergency telephone Number:	00-86-95388-3			
2.	Hazards identification				
Gl	HS classification				
	Physical hazards	Not classified			
	Health hazards	Not classified			
	Environmental hazards	Hazardous to the aquatic environment - acute hazard Category 2			
		Hazardous to the aquatic environment - long-term hazard Category 2			
GI	IS label elements				
	Hazard Pictograms	× · · · · · · · · · · · · · · · · · · ·			
	Signal word	No signal word is used.			
	Hazard statement	Toxic to aquatic life with long lasting effects			
Precautionary statement					
	Prevention Avoid release to the environment.				
	Response	Collect spillage.			
	Storage Not applicable.				
	Dispose of contents/container in accordance with local regulation.				

Not available.

3. Composition / Information on Ingredients

Components	CAS#	Percent	
Mineral oil	8042-47-5	97.0 – 99.9%weight	
2,6-Di-tert-butylphenol	128-39-2	0.1 - 3.0%weight	

4. First Aid Measures

Other hazards

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.

No specific first aid measures are required. As a precaution, remove clothing and

SDS US

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 Chemic	al Hazards					
Components	Туре	Value	Form			
Mineral oil (CAS 8042-47-5)	STEL	10 mg/m3	Mist.			
	TWA	5 mg/m3	Mist.			
iological limit values	No biological expos	sure limits noted for the ingredier	nt(s).			
ppropriate 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.				
dividual protection measures, such as	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 possil				
	select protective	select protective clothing depending on operations conducted, physic				
	requirements and	requirements and other substances in the workplace. Suggested materials f				
	protective gloves include: Neoprene, Nitrile Rubber.					
Respiratory protection	No respiratory protection is normally required. No respiratory protection is					
	required under no	required under normal conditions of use. In accordance with good industri				
	hygiene practices,	hygiene practices, precautions should be taken to avoid breathing of material.				
	user operations ge	user operations generate an oil mist, determine if airborne concentrations a				
	below the occupation	below the occupational exposure limit for mineral oil mist. If not, wear an approve				
	respirator that prov	respirator that provides adequate protection from the measured concentrations of				
	this material. For ai	this material. For air-purifying respirators use a particulate cartridge. Use a positiv				
	pressure air-supply	pressure air-supplying respirator in circumstances where air-purifying respirato				
	may not provide ad	may not provide adequate protection.				
General hygiene	Wash hands, forea	Wash hands, forearms and face thoroughly after handling chemical products,				
considerations	before eating, smol	king and using the lavatory and a	at the end of the working peric			

Appearance

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

Vapor pressure	<0.5Pa@20°C (Estimated value)
Vapor density	>1 Minimum
Boiling point	>280°C (Estimated value)
Melting point/Freezing point	Not available
Solubility (water)	Insoluble in water.
Density	0.84-0.93 kg/l(20°C)
Flash point	(Cleveland Open Cup) 200 °C (392 °F) Minimum
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:	-12 °C (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)

LL50 > 10000 mg/L 96h Fish OECD 203 N/A N/A LL50 > 100 mg/L 48h Daphnia OECD 202 N/A N/A Persistence and degradability: This material is not expected to be readily biodegradable. The biodegradabile is material. N/A N/A Persistence and degradability: This material is based on an evaluation of data for the component material. Not available. Bioaccumulative potential: Not available. Not available. Mobility in soil: Not available. Not available. Other adverse effects: Toxic to aquatic life with long lasting effects. 13. JDisposal Considerations Dispose of contents/container in accordar local/regional/national/international regulations. 10cal/regional/national/international regulations. DOT Basic shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQU (2,6-Di-tent-butylphenol) Hazard class 9 Packing group		Acute to	xicity	Time	Species	Method	Evaluation	Remarks
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Packing group III Environmental hazards Yes				(2,6-Di	-tert-butylpheno)		
Environmental hazards Yes	Transp	ort hazard	class(es)	9				
	Packing	g group		111				
15. Regulatory Information	Enviror	nmental ha	azards	Yes				
	15. Regul	atory Inf	ormation					

US federal regulations

Toxic Substances Control Act (TSCA)

Toxic Substances Control Act (TSCA)					
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)					
Not regulated.	Not regulated.				
CERCLA Hazardous Substance List (40 Cl	CERCLA Hazardous Substance List (40 CFR 302.4)				
Not listed.					
SARA 304 Emergency release notification	SARA 304 Emergency release notification				
Not regulated.	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 substanc	e				
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. 06-11-2020				
Issue date 06-11-2020					