

Safety Data Sheet According to Hazard Communication Standard (29 CFR 1910.1200)

L-HM 32 Anti-wear Hydraulic Oil

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

SDS record number: CSSS-TCO-010-141132

1. Product and Company Identif	ication
Material name	L-HM 32 Anti-wear Hydraulic Oil
CAS #	See section 3
Product code	60205823
Product use	Suitable for lubrication of low or medium pressure hydraulic systems, hydrauli system of mobile equipment and industrial equipment.
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	Ingradiante

3. Composition / Information on Ingredients

Components			CAS#	Percent
Mineral oil			8042-47-5	97.0 – 99.9%weight
Phosphorodithioic esters, zinc salts	acid,	O,O-di-C1-14-alkyl	68649-42-3	0.1 - 3.0%weight

4. First Aid Measures

First aid procedures

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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-HM 32 Anti-wear Hydraulic Oil	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

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

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.			
Biological limit values	No biological expos	ure limits noted for the ingredi	ent(s).			
Appropriate engineering controls:	Handle in accordan	ce with good industrial hygien	e and safety practice. Wash			
	hands before break	hands before breaks and at the end of workday.				
Individual 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	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 other substances in the workplace. Suggested materials f					
	protective gloves in	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 industria					
	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 ar				
	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 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, forear	Wash hands, forearms and face thoroughly after handling chemical products,				
considerations	before eating, smok	ting and using the lavatory and	d at the end of the working period			
9. Physical & Chemical Propertie	S					
Appearance						
Physical state	Liquid					
Form	Liquid	Liquid				
Color	Light to Brown	-				
Odor	Petroleum odor	Petroleum odor				
Odor threshold	Not available	Not available				
рН	Not available					
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<0.5Pa@20 °C (Typical)

>1 Minimum

Material name: L-HM 32 Anti-wear Hydraulic Oil Version #:1.0 Revision date: 06-11-2020. Issue date: 06-11-2020.

Vapor pressure

Vapor density

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) 175 °C (347 °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	28.8 mm2/s - 35.2 mm2/s @40 °C (104° F)
Dissociation constant	Not available
Pour Point:	-18 °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:

Not available
> 5000 mg/kg bw
> 2000 mg/kg bw
> 5 mg/L 4 h
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 EC50 N/A 72h Algae OECD 201 N/A N/A tence and degradability: This material is not expected to be readily biodegradable. The biomaterial. Not available. sumulative potential: Not available. Not available. Not available. sty in soil: Not available. Not available. Not available. adverse effects: Not available. Not available. Not available. isposal Considerations Since emptied containers may retain product residue, follow laboratire is emptied. ransport Information Since emptied containers may retain product residue, follow laboratire is emptied. ransport Information Not regulated azard class Not regulated nvironmental hazards No No Not regulated ansport hazard class(es) Not regulated nvironmental hazards No Not regulated Not regulated nvironmental hazards No <	winera	Mineral oil (CAS#8042-47-5)		Time e	On a start	Mathard	Fuchard	Damari		
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ot regulated. ERCLA Hazardous Substance List (40 CFR 302.4) hosphorodithioic acid, O,O-di-C1-14-alkyl Listed.	ic Subst	tances Co	ntrol Act (TSCA)							
ERCLA Hazardous Substance List (40 CFR 302.4) hosphorodithioic acid, O,O-di-C1-14-alkyl Listed.	TSCA S	Section 12	(b) Export Notification (4	0 CFR 70	7, Subpt. D)					
hosphorodithioic acid, O,O-di-C1-14-alkyl Listed.	Not reg	ulated.								
	CERCL	A Hazardo	ous Substance List (40 C	FR 302.4)					
sters, zinc salts (CAS 68649-42-3)	Phosph	norodithioid	c 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

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

No

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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