

# Safety Data Sheet

According to Hazard Communication Standard (29 CFR 1910.1200)

L-HM 32 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-010-141136

1. Product and Company Identification						
Μ	aterial name	L-HM 32 Ashless Anti-wear Hydraulic Oil				
CAS #		See section 3				
Product code		60509119				
P	oduct use	Suitable for hydraulic system of equipment.				
М	anufacturer/Supplier					
	Supplier(Manufacturer):	lier(Manufacturer): SINOPEC LUBRICANT CO., LTD.				
	Address:	No. 6 Anning Zhuang West Road, Haidian District, Beijing, P.R.China				
	Contact person(E-mail):	ct person(E-mail): csc.lube@sinopec.com				
	Telephone:	00-86-95388-3				
	Fax:	86-10-82410856				
E	nergency telephone Number:	00-86-95388-3				
2	Hazards identification					
G	HS classification					
	Physical hazards	Not classified				
	Health hazards	Not classified				
	Environmental hazards	Hazardous to the aquatic environment - acute hazard Cate	gory 2			
		Hazardous to the aquatic environment - long-term hazard Cate	gory 2			
GHS label elements						
	Hazard Pictograms	₩2				
	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.					
	Disposal	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.

### 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 Handling

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 ingredie	nt(s).			
ppropriate engineering controls:	Handle in accordar	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	pment:				
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	ive clothing is normally required	d. Where splashing is possibl				
	select protective	select protective clothing depending on operations conducted, physic				
	requirements and other substances in the workplace. Suggested materials for					
	protective gloves in	protective gloves include: Neoprene, Nitrile Rubber.				
Respiratory protection	ection is normally required. No re	espiratory protection is ordinari				
	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 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 respirator				
may not provide adequate protect						
General hygiene	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 perio			

#### 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	28.8 mm2/s-35.2 mm2/s @40°C				
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:

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 biodegradable is material.       N/A       N/A         Persistence and degradability:       This material is based on an evaluation of data for the componen material.         Bloaccumulative potential:       Not available.         Mobility in soil:       Not available.         Results of PBT&VPVB assessment:       Not available.         Dther adverse effects:       Toxic to aquatic life with long lasting effects.         13. Disposal Considerations       Dispose of contents/container in accordar tocal/regional/national/international regulations.         Contaminated packaging       Since emptied containers may retain product residue, follow label to after container is emptied.         14. Transport Information       DOU         Basic shipping requirements:       UN number         UN number       UN3082         Proper shipping name       ENVIRONMENTALLY         Hazard class       9         Packing group       III         Environmental hazards       Yes         MAT       UN number       UN3082     <	Miller	Acute to	xicity	Time	Species	Method	Evaluation	Remarks		
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EC50         N/A         T2h         Algae         OECD 201         N/A         N/A           Persistence and degradability:         This material is not expected to be readily biodegradable. The block 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.           Bioaccumulative potential:         Not available.         Not available.           Other adverse effects:         Toxic to aquatic life with long lasting effects.         13.           13. Disposal Considerations         Dispose of contents/container in accords local/regional/national/international regulations.         14.           14. Transport Information         Dor         Basic shipping requirements:         UN3082           UN number         UN3082         Proper shipping name         ENVIRONMENTALLY         HAZARDOUS         SUBSTANCE, LIQ (2.6-Di-tert-butylphenol)           Hazard class         9         Packing group         III         Environmental hazards         Yes           MDG         UN number         UN3082         Proper shipping name         ENVIRONMENTALLY         HAZARDOUS         SUBSTANCE, LIQ (2.6-Di-tert-butylphenol)           Transport hazard class(es)         9         Packing										
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Hazard class       9         Packing group       III         Environmental hazards       Yes         IATA       UN number         UN number       UN3082         UN proper shipping name       ENVIRONMENTALLY         IATA       ENVIRONMENTALLY         Transport hazard class(es)       9         Packing group       III         Environmental hazards       Yes         MDG       UN3082         MDF       UN3082         IVI number       UN3082         IVI number       UN3082         MDG       UN3082         IVI number       UN3082         IVI Proper shipping name       ENVIRONMENTALLY         IVI number       UN3082         IVI number       UN3082         IVI number       IUN3082         IVI number       IUN3082         IVI number       IUN number         IVI number       IVI number         IVI number	_		name			μαζαροι				
Hazard class       9         Packing group       III         Environmental hazards       Yes         IAT       UN number       UN3082         [Chi-tert-butylphenol)       ENVIRONMENTALLY       HAZARDOUS       SUBSTANCE,       LIQUII         [Chi-tert-butylphenol)       III       ENVIRONMENTALLY       HAZARDOUS       SUBSTANCE,       LIQUII         [Chi-tert-butylphenol)       ENVIRONMENTALLY       HAZARDOUS       SUBSTANCE,       LIQUII         [Chi-tert-butylphenol)       [Chi-tert-butylphenol]       [Chi-tert-butylphenol]       [Chi-tert-butylphenol]       [Chi-tert-butylphenol]         [Chi-tert-butylphenol]       [Chi-tert-butylphenol]       [Chi-tert-butylphenol]       [Chi-tert-butylphenol]       [Chi-tert-butylphenol]         [Chi-tert-butylphenol]       [Chi-tert-butylphenol]       [Chi-ter	Proper	Sinpping	lane				50 50051	ANGE, EN		
Packing group       III         Environmental hazards       Yes         AT       UN number       UN3082         UN proper shipping name       ENVIRONMENTALLY       HAZARDOUS       SUBSTANCE,       LIQUI         (2,6-Di-tert-butylphenol)       (2,6-Di-tert-butylphenol)       III         Packing group       III       III       III         Environmental hazards       Yes       III         IV number       UN3082       III         IV number       Ves       III         IV number       UN3082       III         IV number       UN3082       III         IV number       UN3082       IIII         IV number       UN3082       IIII         IV number       III       IIII         IV number       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Hazard	class			tert-butyiphenoi	)				
Environmental hazards       Yes         ATA       UN number       UN3082         UN proper shipping name       ENVIRONMENTALLY       HAZARDOUS       SUBSTANCE,       LIQUII         (2,6-Di-tert-butylphenol)       Transport hazard class(es)       9       Packing group       III         Environmental hazards       Yes       Yes       Yes         MDG       UN number       UN3082       UN 1000000000000000000000000000000000000										
ATA       UN number       UN3082         UN proper shipping name       ENVIRONMENTALLY       HAZARDOUS       SUBSTANCE,       LIQUII         (2,6-Di-tert-butylphenol)       (2,6-Di-tert-butylphenol)       III       III         Environmental hazards       Yes       Yes         MDG       UN3082       III       III         In number       III       III       IIII       IIII         In number       UN3082       IIII       IIII       IIII         In number       IIII       IIII       IIII       IIIII       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	-		azards							
UN proper shipping name       ENVIRONMENTALLY       HAZARDOUS       SUBSTANCE,       LIQUIL         (2,6-Di-tert-butylphenol)       (2,6-Di-tert-butylphenol)       III         Packing group       III       III       III         Environmental hazards       Yes       Yes         IMDEr       UN3082       III         IMProper shipping name       ENVIRONMENTALLY       HAZARDOUS       SUBSTANCE,       LIQUIL         (2,6-Di-tert-butylphenol)       III       III       III       IIII       IIII       IIIII       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII										
(2,6-Di-tert-butylphenol) Transport hazard class(es) Packing group III Environmental hazards Ves MDG UN number UN number UN nomber UN	UN nun	nber		UN308	2					
(2,6-Di-tert-butylphenol) Transport hazard class(es) Packing group III Environmental hazards Ves MDG UN number UN number UN nomber UN			ng name			HAZARDOU	JS SUBST	ANCE, LI		
Transport hazard class(es)       9         Packing group       III         Environmental hazards       Yes         IMDG       UN3082         UN number       UN3082         IN proper shipping name       ENVIRONMENTALLY         (2,6-Di-tert-butylphenol)         Transport hazard class(es)       9         Packing group       III         Environmental hazards       Yes	• •			(2,6-Di-	-tert-butylphenol	)		·		
Environmental hazards Yes   IMDG UN number   UN proper shipping name ENVIRONMENTALLY   (2,6-Di-tert-butylphenol) (2,6-Di-tert-butylphenol)   Transport hazard class(es) 9   Packing group III   Environmental hazards Yes	Transp	ort hazard	class(es)							
IMDG       UN number       UN3082         UN proper shipping name       ENVIRONMENTALLY       HAZARDOUS       SUBSTANCE,       LIQUII         (2,6-Di-tert-butylphenol)       (2,6-Di-tert-butylphenol)       III         Packing group       III       Yes	Packing	g group		Ш						
UN number       UN3082         UN proper shipping name       ENVIRONMENTALLY       HAZARDOUS       SUBSTANCE,       LIQUII         (2,6-Di-tert-butylphenol)       (2,6-Di-tert-butylphenol)       III         Packing group       III       Yes			Yes							
UN proper shipping name       ENVIRONMENTALLY       HAZARDOUS       SUBSTANCE,       LIQUII         (2,6-Di-tert-butylphenol)       (2,6-Di-tert-butylphenol)       III         Packing group       III       III       Yes	IMDG									
(2,6-Di-tert-butylphenol)Transport hazard class(es)9Packing groupIIIEnvironmental hazardsYes	UN nun	nber		UN308	2					
Transport hazard class(es)9Packing groupIIIEnvironmental hazardsYes	UN pro	per shippi	ng name	ENVIR	ONMENTALLY	HAZARDO	JS SUBST	ANCE, LI		
Packing groupIIIEnvironmental hazardsYes	-		(2,6-Di-	(2,6-Di-tert-butylphenol)						
Environmental hazards Yes	Transpo	ort hazard	class(es)	9						
	Packing	g group		Ш						
15. Regulatory Information	Enviror	nmental ha	azards	Yes						
	15. Reaul	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.						
OSHA Specifically Regulated Substances	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. 06-11-2020					
Issue date 06-11-2020						