

Safety Data Sheet

L-HM 150 Anti–wear Hydraulic Oil

SECTION 1. Identification	
GHS product identifier:	Anti-wear Hydraulic Oil L-HM 150
Other means of identification:	See Section 3
Product Code	60196302
Recommended use of the chemical and r	estrictions on use:
Recommended use:	Suitable for high temperature, high pressure hydraulic systems, hydraulic system of
	mobile equipment and industrial equipment.
Recommended Restrictions:	Not available.
Supplier's details:	
Supplier(Manufacturer):	SINOPEC LUBRICANT CO.,LTD.
Address:	No. 6 Anning Zhuang West Road,Haidian District,Beijing,P.R.China
Post Code	100085
Contact person(E-mail):	csc.lube@sinopec.com
Telephone:	86-400-810-9886
Fax:	86-10-82410856
Emergency phone number:	86-400-810-9886

SECTION 2. Hazards identification

Classification of the substance or mixture:

Physical hazards:	Not classified	
Health hazards:	Not classified	
Environmental hazards:	Not classified	
GHS label elements, including precautionary statements:		
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 which do not result in	Not applicable	
classification:		

SECTION 3. Composition/information on ingredients

Chemical nature:	Blend of mineral oil and additives.		
Hazardous components:	r	r	
Chemical Name	Synonyms	CAS No.	Concentration (% w/w)
Butylated phenol	2,6-BIS(1,1-DIMETHYLETHYL)PHENOL	128-39-2	0.12-0.35
Aryl phosphite	AURORA KA-1603	101-02-0	0.005-0.052

SINOPEC

SECTION 4. First aid measures

Description of necessary first-aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

In all cases of doubt, of when symptoms per-	sist, seek medical attention.
In case of inhalation:	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.
In case of 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.
In case of eyes contact:	Rinse the eyes with plenty of water.
In case of ingestion:	Clean mouth with water and drink plenty of water.
Most important symptoms/effects, acute	The product is not classified as harmful to human health effect.
and delayed:	
Indication of immediate medical	If skin irritation or rash occurs, get medical advice/attention.
attention and special treatment needed,	
if necessary:	

SECTION 5. Fire-fighting measures		
Suitable extinguishing media:	Use water fog, foam, dry chemical or carbon dioxide to extinguish flames.	
Unsuitable extinguishing media:	Water.	
Specific hazards arising from the	In case of heat, fire and strong oxidants can lead to burning. Fumes, smoke, carbon	
chemical:	monoxide, sulfur oxides, aldehydes, nitrogen oxides, phosphate, certain metal.	
Special protective actions for	Fire-fighters should wear appropriate protective equipment and self-contained	
fire-fighters:	breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.	

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:	Provide adequate ventilation. Avoid skin and eye contact. Refer to section 8 of SDS for
	personal protection details.
For emergency responders:	Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.
Environmental precautions:	Do not allow material to be released to the environment without proper governmental permits.
Methods and materials for containment	Stop the source of the release if you can do it without risk. Contain release to prevent
and cleaning up:	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.
Reference to other sections:	See Section 7 for information on safe handling.
	See Section 8 for information on personal protection equipment.
	See Section 13 for information on disposal.
Additional information:	Not applicable.

SECTION 7. Handling and storage



Precautions for safe handling:	Provide good ventilation. Prevent electrostatic charge - sources of ignition should be
	kept well clear - fire extinguishers should be kept handy. Avoid contact with skin and
	eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment.
	Observe good industrial hygiene practices. When using, do not eat, drink or smoke.
	Wash hands thoroughly after handling.
Conditions for safe storage, including	Store in tightly closed original container in a dry, cool and well-ventilated place.
any incompatibilities:	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.

SECTION 8. Exposure controls/personal protection

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Control parameters:	Not available.
Appropriate engineering controls:	Use in a well-ventilated area.
Individual protection measures, such a	as personal protective equipment (PPE):
	No special eye protection is normally required. Where splashing is possible, wear
Eye/face protection:	safety glasses with side shields as a good safety practice.
	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
Skin protection:	include: Neoprene, Nitrile Rubber.
	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
Respiratory protection:	provide adequate protection.
Thermal hazards:	Wear suitable protective clothing to prevent heat.

SECTION 9. Physical and chemical properties and safety characteristics

Appearance:	
Physical state:	Yellow to brown transparent oily liquid
Form:	Liquid
Color:	Yellow to brown
Odor:	Odorless or slight odor
Melting point/ freezing point:	Not available
Boiling point or initial boiling point and	Not available
boiling range:	
Flammability:	Not available
Lower and upper explosion limit /	Not available
flammability limit:	
Flash point:	238 °C (open cup) (typ)
Auto-ignition temperature:	>320°C



Not available
Not available
135 mm²/s – 165 mm²/s (40°C)
Not available
Not available
<0.5MPa(20°C)
0.84 kg/l - 0.93 kg/l(20℃)
>1(air=1)
Not available
Not available
Not available
Not explosive
Not oxidizing

SECTION 10. Stability and reactivity		
Reactivity:	The substance is stable under normal storage and handling conditions.	
Chemical stability:	This material is considered stable under normal ambient and anticipated storage and	
	handling conditions of temperature and pressure.	
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.	
Conditions to avoid:	Contact with incompatible materials.	
Incompatible materials:	May react with strong acids or strong oxidizing agents, such as chlorates, nitrates,	
	peroxides, etc.	
Hazardous decomposition products:	None known (None expected).	

SECTION 11. Toxicological information

Acute toxicity:	
LD50(Oral, Rat):	> 5000 mg/kg bw
LD50(Dermal, Rabbit):	> 5000 mg/kg bw
LC50(Inhalation, Rat):	> 10000 mg/m³ bw
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

SECTION 12. Ecological information

Toxicity:

Highly refined mineral oil (CAS: 64742-44-5):

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LL50	> 100 mg/L	96h	Fish	OECD 203	N/A	N/A
LL50	> 10000 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

isopropanol (CAS: 67-63-0):



Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	9640 mg/L -	96h	Fish	OECD 203	N/A	N/A
	10000 mg/L					
LC50	> 10000 mg/L	24h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A
Persistence and degradability:		This product is expected to be inherently biodegradable.				
Bioaccumulative potential:		Bioaccumulation is unlikely due to the very low water solubility of this product; therefore				
		bioavailal	bility to aquatic orga	nisms is minima	Ι.	
Mobility in soil:		When released into the environment, adsorption to sediment and soil will Be the				
		predomin	ant behavior.			
Results of PBT&vPvB assessment:		No data available.				
Other adverse effects:		No data available.				

SECTION 13. Disposal considerations

Disposal methods:

The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.

If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.

SECTION 14. Transport information				
	Land transport(ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)	
UN-Number	Not regulated	Not regulated	Not regulated	
UN Proper shipping name	Not regulated	Not regulated	Not regulated	
Transport hazard class(es)	Not regulated	Not regulated	Not regulated	
Packing group, if applicable	Not regulated	Not regulated	Not regulated	
Environmental hazards	No	No	No	
Special precautions for user	See section 2	See section 2	See section 2	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated	Not regulated	Not regulated	

SECTION 15. Regulatory information

Safety, health and environmental regulations specific for the product in question:			
Country(s) or region	Inventory name	On inventory (yes/no)*	
Australia	Australian Inventory of Chemical Substances (AICS)	Yes	
Canada	Domestic Substances List (DSL)	Yes	
Canada	Non-Domestic Substances List (NDSL)	No	
China	Inventory of Existing Chemical Substances in China	Yes	
	(IECSC)		
Europe	European Inventory of Existing Commercial Chemical	Yes	
	Substances (EINECS)		
Europe	European List of Notified Chemical Substances (ELINCS)	No	
Japan	Inventory of Existing and New Chemical Substances	Yes	
Product name: Anti wear Hydraulie Oil	L HM 150		



	(ENCS)		
Korea	Existing Chemicals List (ECL)	Yes	
New Zealand	New Zealand Inventory		
Philippines	Philippine Inventory of Chemicals and Chemical	Yes	
	Substances (PICCS)		
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory Yes		

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION 16. Other information

The date of preparation of the	Version 1.0 Amended by GHS rev 6 on OCT.27 th ,2017		
latest revision of the SDS:			
Legend to abbreviations and	ADR: European Agreement Concerning the International Carriage of Dangerous Goods by		
acronyms used in the SDS:	Road		
	RID: Regulations Concerning the International Transport of Dangerous Goods by Rail		
	(European law)		
	IMDG: International Maritime Dangerous Goods		
	EINECS: European Inventory of Existing commercial Chemical Substances		
	IATA: International Air Transport Association		
	ICAO-TI: International Civil Aviation Organization《The International Civil Aviation Covenant》		
	(ICAO)		
	CAS: Chemical Abstracts Service		
	LC50: Lethal Concentration 50		
	EC50: Concentration for 50% of maximal effect		
	LD50: Lethal dose 50%		
References and sources for data	The European Chemicals Agency		
used to compile the SDS:			