

SAFETY DATA SHEET

According to Work Health and Safety Regulations 2011 and National Model Code of Practice for the

preparation of Safety Data Sheets for Hazardous Chemicals

Version 1.1 Issue date: 18/09/2019 Revision date: 23/05/2022

SDS Record Number: CSSS-TCO-010-128839

1. Identification of the material an	d supplier
Material name:	L-HV 32 Low Temperature Hydraulic Oil (Australia)
Other Names:	-
Recommended use:	Especially suitable for hydraulic sysrem working in conditions of outdoor, severe cold
	regions and large ambient temperature variation or severe condition.
Manufacturer:	
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:	86-400-810-9886
Fax:	86-10-82410856
Emergency number:	86-400-810-9886
Australia Supplier(Manufacturer):	International Lubricant Distributors Pty. Ltd.
Address:	21 Logistics Boulevard, Kenwick Western Australia, 6107
Contact person(E-mail):	-
Telephone:	-
Fax:	+61 8 9381 1788
Emergency number:	1300 558 939
New Zealand Supplier(Manufacturer):	Waitomo Lubricants Limited (GST 104255744)
Address:	15 Ellis Street, Frankton, Hamilton, PO Box 5125, Hamilton 3242
Telephone:	+64 7 847 0829
Fax:	+64 7 846 0032
Emergency number:	+64 7 847 0829 (24 Hrs)
New Zealand Supplier(Manufacturer):	MTS ENERGY LTD
Address:	44 Northcote Road, North Shore, Auckland 0627, New Zealand
Telephone:	+64 9 480 8921
Fax:	+64 9 480 8398
Emergency number:	0800 399 993 (24 Hrs)
New Zealand Supplier(Manufacturer):	Ixom Operations Pty Ltd (Incorporated in Australia)
	NZBN: 9429041465226
Address:	166 Totara Street, Mt Maunganui South, New Zealand
Contact person(E-mail):	-
Telephone:	+64 9 368 2700
Fax:	+64 9 368 2710
Emergency number:	0 800 734 607 (ALL HOURS)

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.
Specific hazards:	Not applicable.

3. Composition/information on ing	redients	
Components	CAS No.	Percent
Highly refined mineral oil	Mixture	90 - 99 %weight
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	0.3 – 2%weight

4. First aid measures	
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.
Skin:	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.
Eye:	No specific first aid measures are required. As a precaution, remove contact lenses, if
	worn, and flush eyes with water.
Ingestion:	No specific first aid measures are required. Do not induce vomiting. As a precaution,
	get medical advice.
Notes to physician:	Treat symptomatically.

5. Fire-fighting measures	
Suitable extinguishing media:	Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.
Extinguishing media which must not be used for safety reasons:	Not available.
Specific hazards arising from the chemical:	A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.
Fire Fighting:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
HAZCHEM code	None.

6. Accidental release measures	
Personal precautions:	Eliminate all sources of ignition in vicinity of spilled material.
Containment procedures:	Do not let product enter drains.
Methods for cleaning up:	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.

7. Handling and storage

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. 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.		
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		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. Containers which are	Storage:	Keep container tightly closed in a dry and well-ventilated place. Containers which are
opened must be carefully resealed and kept upright to prevent leakage.		opened must be carefully resealed and kept upright to prevent leakage.

8. Exposure controls/personal protection

Control parameters

Follow standard monitoring procedures

Occupational exposure limits

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Material	Туре	Value	Form	
Phosphorodithioic acid, O,O-di-C1-14-	TWA	2 mg/m3	Inhalable fraction.	
alkyl esters, zinc salts (CAS		0.1 mg/m3	Respirable fraction.	
68649-42-3)				
Biological limit values:	No biological exposure limits	s noted for the ingredient(s).		
Exposure guidelines	No exposure standards allo	cated.		
Appropriate engineering controls:	Use process enclosures, loc	al exhaust ventilation or other	engineering controls to keep	
	worker exposure to airborne contaminants below any recommended or statutory limits.			
Personal protective equipment:				
Eye/face protection:	No special eye protection	is normally required. Where	splashing is possible, wear	
	safety glasses with side shie	elds as a good safety practice.		
Skin protection:	No special protective clothin	g is normally required. Where	e splashing is possible, select	
	protective clothing dependi	ng on operations conducted	, physical requirements and	
	other substances in the worl	kplace.		
Respiratory protection:	No respiratory protection is	normally required. No respire	ratory protection is ordinarily	
	required under normal conc	litions of use. In accordance	with good industrial hygiene	
	practices, precautions shoul	d be taken to avoid breathing	of material. If user operations	
	generate an oil mist, detern	nine if airborne concentrations	s are below the occupational	
	exposure limit for mineral of	oil mist. If not, wear an appro	oved respirator that provides	
	adequate protection from	the measured concentration	ions of this material. For	
	air-purifying respirators us	se a particulate cartridge.	Use a positive pressure	
	air-supplying respirator in	circumstances where air-pu	urifying respirators may not	
Material name: L-HV 32 Low Temperature Hydrauli Version #: 1.1 Issue date: 18-09-2019. Re	c Oil(Australia) evision date: 23-05-2022.		SDS AUSTRALIA 3 / 7	

Suggested materials for protective gloves include: Neoprene, Nitrile Rubber.

9. Physical and chemical properties

Appearance:

Appearance.	
Physical state:	Liquid
Form:	Liquid
Color:	Light to Brown
Odor:	Petroleum odor
Odour threshold:	Not available
PH:	Not available
Melting point/Freezing point:	Not available
Initial boiling point and boiling range:	>280°C (Estimated value)
Flash point:	175 °C Minimum (Cleveland Open Cup)
Evaporation rate:	Not available
Flammability (solid, gas) :	Not available
Upper/lower flammability or explosive	Not available
limits:	
Vapor pressure:	<0.5Pa@20°C (Estimated value)
Vapor density(Air = 1):	>1 Minimum
Density:	0.84-0.93 kg/l(20°C)
Solubility (H ₂ O) :	Insoluble in water.
Partition coefficient (n-octanol/water) :	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity, dynamic:	28.8 mm2/s-35.2 mm2/s @40°C
Organic solvents:	NE CONTRACTOR
organie solvents.	Not available
Water:	Not available
•	
Water:	Not available
Water: VOC (EC) :	Not available Not available
Water: VOC (EC) : Solids contents:	Not available Not available Not available
Water: VOC (EC) : Solids contents: Molecular Formula:	Not available Not available Not available Not available

10. Stability and reactivity	
Reactivity:	The substance is stable under normal storage and handling conditions.
Chemical stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
Possibility of hazardous reactions:	No dangerous reactions known.
Conditions to avoid:	Incompatible materials.
Incompatible materials:	May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Hazardous decomposition products:	A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

11. Toxicological information

Toxicological data:

Acute toxicity:

Phosphorodithioic acid, O,O-di-C1-1	4-alkyl esters, zinc salts (CAS#68649-42-3)
LD50(Oral, Rat):	3100mg/kgbw
LD50(Dermal, Rabbit):	>3160mg/kgbw
LC50(Inhalation, Rat):	>5000mg/m³air
Skin corrosion/Irritation:	No data available.
Serious eye damage/irritation:	No data available.
Respiratory or skin sensitization:	No data available.
Germ cell mutagenicity:	No data available.
Carcinogenicity:	No data available.
Reproductive toxicity:	No data available.
STOT- single exposure:	No data available.
STOT-repeated exposure:	No data available.
Aspiration hazard:	No data available.
Other information	This product has no known adverse effect on human health.

12. Ecological information

Toxicity:

,	-							
	Acute toxicity		Time	Species	Method	Evaluation	Remarks	
	LC50	N/A		96h	Fish	OECD 203	N/A	N/A
	EC50	N/A		48h	Daphnia	OECD 202	N/A	N/A
	EC50	N/A		72h	Algae	OECD 201	N/A	N/A
Persistence and degradability: This material is not expected to be readily biodegradable.			odegradable. T	he biodegradat				
	material is based on an evalu			uation of data for	the componen	ts or a similar n		
Bioaccumulati	ve poten	tial:	Not available.					
Mobility in soil	l:		Not available.					
Other adverse	effects:		No other adverse environmental effects (e.g. ozone depletion, photochemical					
			creation potential, endocrine disruption, global warming potential) are expected					
			this component.					

13. Disposal considerations	
Disposal methods:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Waste from residues/unused products:	Dispose of in accordance with local regulations. Empty containers or liners may retain
	some product residues. This material and its container must be disposed of in a safe
	manner (see: Disposal instructions).
Contaminated packaging:	Empty containers should be taken to an approved waste handling site for recycling or
	disposal. Since emptied containers may retain product residue, follow label warnings
	even after container is emptied.

14. Transport information

ADG	
UN number	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Labels required	Not regulated
Special precautions	Read safety instructions, SDS and emergency procedures before handling.
ΙΑΤΑ	
UN number	Not regulated
Proper shipping name	Not regulated

Hazard class	Not regulated
Packing group	Not regulated
Special precautions	Read safety instructions, SDS and emergency procedures before handling.
IMDG	
UN number	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Environmental hazards	
Marine pollutant	No
Special precautions	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II	Not regulated
of MARPOL 73/78 and the IBC Code:	

15. Regulatory information

National regulations

Safety, health and environmental regulations

This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals (23/12/2011).

Australia Medicines & Poisons Appendix A/B/D/E/F/G/H/I/J/K / Australia Medicines & Poisons Schedule 2/3/5/6/7/8/9/10 Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 4

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (CAS 68649-42-3)

Australia National Pollutant Inventory (NPI): Threshold quantity

Phosphorodithioic acid, O,O-di-C1-14-alkyl 10 TONNES/YR Threshold Category: 1

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

High Volume Industrial Chemicals (HVIC)

Not listed.

Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10) Not listed.

National Pollutant Inventory (NPI) substance reporting list

Not listed.

Prohibited Carcinogenic Substances

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

Resricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9) Not listed.

Restricted Carcinogenic Substances

Not regulated.

International regulations

Stockholm Convention

Not applicable

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.		
Inventory status:		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Not available
Canada	Domestic /Non-Domestic Substances List (DSL) /(NDSL)	Not available
China	Inventory of Existing Chemical Substances in China (IECSC)	Not available
Europe	European Inventory of Existing Commercial/ Notified Chemical	Not available
	Substances (EINECS) / (ELINCS)	
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Not available
Korea	Existing Chemicals List (ECL)	Not available
New Zealand	New Zealand Inventory	Not available
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Not available
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Not available
*A "Yes" indicates this product complies w	ith 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).

16. Other information	
Indication of changes:	Version 1.1
Training instructions:	Not applicable.
Further information:	This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.
Notice to reader:	Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.