

### 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

Printing date: 18/09/2019

Revision date: 18/09/2019

SDS Record Number: CSSS-TCO-010-117309

Material name:L-CKD 150 Heavy Duty Industrial Gear OilOther means of identification:-	
Other means of identification: -	accentracemission system working in acuses
	apprentication overlam working in appears
Recommended use: Suitable for lubrication of various closed g	gear transmission system working in severe
conditions in such industries as steel, cer	ment, power, mining and so on; Suitable for
· · · · · · · · · · · · · · · · · · ·	pur gear, bevel gear, spiral bevel gear and
bearing.	
Restrictions on use:	
Supplier(Manufacturer): SINOPEC LUBRICANT CO.,LTD	
Address: No. 6 Anning Zhuang West Road, Haidian D	District, Beijing, P.R.China
Contact person(E-mail): csc.lube@sinopec.com	
Telephone:         86-800-810-9886	
Fax: 86-10-82410856	
Emergency number: 86-800-810-9886	
Australia Supplier(Manufacturer): International Lubricant Distributors Pty. Ltd.	
Address: Level 3, 43 Kishorn Road, Applecross, 6153	3 Australia
Contact person(E-mail): -	
Telephone: -	
<b>Fax:</b> +61 8 9381 1788	
Emergency number:1300 558 939	
New Zealand Supplier(Manufacturer): Waitomo Lubricants Limited (GST 10425574	44)
Address:15 Ellis Street, Frankton, Hamilton, PO Box	5125, Hamilton 3242
Telephone:         +64 7 847 0829	
<b>Fax:</b> +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 0	0627, New Zealand
Telephone:         +64 9 480 8921	
<b>Fax:</b> +64 9 480 8398	
Emergency number:         0800 399 993 (24 Hrs)	
New Zealand Supplier(Manufacturer): Ixom Operations Pty Ltd (Incorporated in Au	ustralia)
NZBN: 9429041465226	
Address: 166 Totara Street, Mt Maunganui South, New	w Zealand



Contact person(E-mail):
Telephone:
Fax:
Emergency number:

+64 9 368 2700 +64 9 368 2710 0 800 734 607 (ALL HOURS)

#### 2. Hazards identification

#### Australia:

Not classified as Hazardous according to criteria of National Occupational Health and Safety Commission (NOHSC), Australia.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition) New Zealand:

Not classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand. Not classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

#### **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 which do not result in classification:	Not applicable.

3. Composition/information on ingredients		
Components	CAS No.	Percent
Highly refined mineral oil	64742-44-5	90-99%
isopropanol	67-63-0	0.01-0.1%

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.
Symptoms caused by exposure:	Not available.
Medical Attention and Special Treatment:	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	Water.
used for safety reasons:	
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 oxides and
	other decomposition products, in the case of incomplete combustion.
Special protective equipment and	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive
precautions for fire fighters:	pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water
	spray may be used to cool down heat-exposed containers. Fight fire from safe location.
	This product should be prevented from entering drains and watercourses.

6. Accidei	ntal release measure	es		
Personal	precautions, prot	ective	Avoid build up of vapour. Ensure sufficient supply of air. Avoid contact with eyes or skin.	
equipment and emergency procedures:		res:	Contact with water - danger of sliding. Wear appropriate personal protective equipment	
			and clothing to prevent exposure. Increase ventilation. Evacuate all unprotected personnel.	
Environmen	tal precautions:	If leakage occurs, dam up. Prevent surface and ground-water infiltration, as well as ground		
			penetration. Prevent from entering drainage system. If accidental entry into drainage	
			system occurs, inform responsible authorities.	
Methods an	nd materials for contain	nment	For large spills: Remove with vacuum truck or pump to storage/salvage vessels.	
and cleaning	g up:		For small spills: Soak up residue with an absorbent such as clay, sand or other suitable	
			material. Place in non-leaking container and seal tightly for proper disposal.	

7. Handling and storage		
Precautions for safe handling:	Containers, even those that have been emptied, may contain explosive vapours. Do NOT cut, drill, grind, weld or perform similar operations on or near containers. Electrostatic discharge may be generated during pumping - this may result in fire. Ensure electrical	
Conditions for safe storage, including any incompatibilities: Storage regulation	continuity by bonding and grounding (earthing) all equipment. Do not store in open or unlabeled containers. Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures. Classified as a Class C2 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS1940. This product should be stored and used in a well-ventilated area away from naked flames, sparks and other sources of ignition.	

#### 8. Exposure controls/personal protection

Control parameters – exposure

Not available

standards, biological monitoring:

Exposure Levels

Occupational exposure limits:

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)			
Components	Туре	Value	Form
Not available.	Not available.	Not available.	Not available.

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)				
Components	Туре	Value	Form	
Not available.	Not available.	Not available.	Not available.	
No exposure standards have been established for this material, however, the TWA National occupational Health And Safety Com			al Health And Safety Commission	
(NOHSC) exposure standards for Isopropyl alcohol is 983mg/m3/400 ppm, the STEL National occupational Health And Safety Commission				
(NOHSC) exposure standards for	Isopropyl alcohol is 1230 mg/m3/	500 ppm.		
TWA (Time Weighted Average):	The average airborne concentratic	n of a particular substance when ca	alculated over a normal eight-hour	
working day, for a five-day week.				
Appropriate engineering contro	DIs: Provide sufficient ve	entilation to keep airborne levels as I	ow as possible. Where vapours or	
	mists are generated	, particularly in enclosed areas, and	natural ventilation is inadequate, a	
	local exhaust ventila	tion system is required.		
Personal protective equipment	:			
Eye/face protection:	No special eye prot	No special eye protection is normally required. Where splashing is possible, wear safety		
	glasses with side sh	glasses with side shields as a good safety practice.		
Skin protection:	No special protectiv	No special protective clothing is normally required. Where splashing is possible, select		
	protective clothing	protective clothing depending on operations conducted physical requirements and other		
	substances in the w	substances in the workplace.		
Respiratory protection: No respiratory protection is normally required. No respiratory protection is ordinated		espiratory protection is ordinarily		
required under normal conditions of use. In accordanc		nce with good industrial hygiene		
practices, precautions should be taken to avoid breathing of material. If user o		ing of materialIf user operations		
	generate an oil mi	generate an oil mist, determine if airborne concentrations are below the occupational		
	exposure limit for	exposure limit for mineral oil mist. If not, wear an approved respirator that provides		
	adequate protection	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 when	circumstances where air-purifying respirators may not provide adequate protection.		
Hand protection:	Suggested material	s for protective gloves include: Neop	rene, Nitrile Rubber.	

#### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance:	
Physical state:	Liquid
Form:	Oily liquid
Color:	Transparent, yellow to brown
Odor:	Odorless or slight odor
Odour threshold:	Not available
PH:	Not available
Melting point/Freezing point:	Not available
Boiling point and boiling range:	> 280 °C (typ)
Flash point:	250 °C (open cup) (typ)
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:	>1(air=1)
Density:	0.88 kg/l - 0.93 kg/l(20°C)

Solubility (H <sub>2</sub> O) :	Insoluble in water
Partition coefficient (n-octanol/water) :	> 6 (estimated value)
Auto-ignition temperature:	>320°C
Decomposition temperature:	Not available
Viscosity, dynamic:	135mm/s2 - 168 mm/s2 (40°C)
Specific heat value:	Not available
Particle size:	Not available
Volatile organic compounds content:	Not available
% volatile:	Not available
Saturated vapour concentration:	Not available
Release of invisible flammable vapours	Not available
and gases:	
Additional parameters	
Shape and aspect ratio:	Not available
Crystallinity:	Not available
Dustiness:	Not available
Surface area:	Not available
Degree of aggregation or agglomeration:	Not available
Ionisation (redox potential):	Not available
Biodurability or biopersistence:	Not available

# 10. Stability and reactivity Reactivity: Stable under recommended transport or storage conditions. Chemical stability: Stable under normal temperatures and pressures. Possibility of hazardous reactions: Contact with strong oxidants. Conditions to avoid: Incompatible materials. Avoid extreme temperatures, sun exposure, and the fire source.

Incompatible materials:Strong oxidizing agents.Hazardous decomposition products:Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes, nitrogen oxides, phosphate,<br/>certain metal oxides and other decomposition products, in the case of incomplete<br/>combustion.

#### 11. Toxicological information

Toxicological data:			
Acute toxicity:			
LD50(Oral, Rat):	>5g/kg		
LD50(Dermal, Rabbit):	>5g/kg		
LC50(Inhalation, Rat):	>10g/m3		
Highly refined mineral oil (CAS: 64742-	44-5)		
LD50(Oral, Rat):	> 5000 mg/kg bw		
LD50(Dermal, Rabbit):	> 2000 mg/kg bw		
LC50(Inhalation, Rat):	2.18 mg/L air		
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.
Information on routes of exposure	No data available.
Symptoms related to exposure	No data available.
Numerical measures of toxicity	No data available.
Immediate, delayed and chronic health	No data available.
effects from exposure	

#### 12. Ecological information

#### **Ecotoxicity:**

isopropanol (CAS: 67-63-0)

Acute t	oxicity	Time	Species	Method	Evaluation	Remarks
LC50	9640 mg/L-10000	96h	Fish	OECD 203	N/A	N/A
	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: Bioaccumulative potential: Mobility in soil: Other adverse effects: This material is not expected to be readily biodegradable.

This material contains components with potential to bioaccumulation.

If into the soil, this material will be adsorbed and not flow.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Safe handling and disposal methods:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Disposal of any contaminated	Australia:
packaging:	The disposal of the spilled or waste material must be done in accordance with applicable
	local and national regulations.
	New Zealand:
	Product Disposal
	Product wastes are controlled wastes and should be disposed of in accordance with all
	applicable local and national regulations. This product can be disposed through a licensed
	commercial waste collection service. In this specific case the product is a combustible
	substance and therefore can be sent to an approved high temperature incineration plant for
	disposal. Personal protective clothing and equipment as specified in Section 8 of this SDS
	must be worn during handling and disposal of this product. The ventilation requirements as
	specified in the same section must be followed, and the precautions given in Section 7 of
	this SDS regarding handling must also be followed. Do not dispose into the sewerage
	system. Do not discharge into drains or watercourses or dispose where ground or surface
	waters may be affected. In New Zealand, the disposal agency or contractor must comply
	with the New Zealand Hazardous Substances (Disposal) Regulations 2001. Further details



regarding disposal can be obtained on the EPA New Zealand website under specific group standards.

#### **Container Disposal**

The container or packaging must be cleaned and rendered incapable of holding any substance. It can then be disposed of in a manner consistent with that of the substance it contained. In this instance the packaging can be disposed through a commercial waste collection service. Alternatively, the container or packaging can be recycled if the hazardous residues have been thoroughly cleaned or rendered non-hazardous. In New Zealand, the packaging (that may or may not hold any residual substance) that is lawfully disposed of by householders or other consumers through a public or commercial waste collection service is a means of compliance with regulations.

#### 14. Transport information

#### Australia:

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. **New Zealand:** 

Not classified as Dangerous Goods for transport according to the NZS 5433:2012 Transport of Dangerous Goods on Land.

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

#### U.N. Number

None Allocated

#### **Proper Shipping Name**

None Allocated

#### DG Class

None Allocated

#### Packing Group

None Allocated

#### 15. Regulatory information

#### Safety, health and environmental regulations specific for the product in question

#### Australia:

Not classified as Hazardous according to criteria of National Occupational Health and Safety Commission (NOHSC), Australia.

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

#### New Zealand:

Not classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

#### Australia HVIC: Listed substance

Not available.

#### New Zealand Location Test Certificate

Subject to Regulation 55 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations a location test certificate is required when quantity greater than or equal to those indicated below are present.

**Hazard Class** 

Quantity beyond which controls apply Quantity beyond which controls apply



	for closed containers wh	en use occurring in open containers
Not Applicable	Not Applicable No	t Applicable
New Zealand Approved Han	dler	
Subject to Regulation 56	6 of the Hazardous Substances (Classes 1 to 5 Controls) Regu	ulations, the substance must be under the
personal control of an A	pproved Handler when present in a quantity greater than or ea	qual to those indicated below.
Class of substance	Quantities	
Not Applicable	Not Applicable	
Inventory status:		
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 Chi (IECSC)	na Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substance (ENCS)	es No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemic Substances (PICCS)	cal Yes
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).

16. Other information	
Indication of changes:	Version 1.1
Date of preparation or review:	2019.9.18
Key abbreviations or acronyms	CAS: Chemical Abstracts Service
used:	LC50: Lethal Concentration 50
	EC50: Concentration for 50% of maximal effect
	LD50: Lethal dose 50%
	MAC: maximum allowable concentration, MAC)
	PC-TWA: permissible concentration-time weighted average
	PC-STEL: permissible concentration-short term exposure limit
reference	Australia:
	Standard for the Uniform Scheduling of Medicines and Poisons.
	Approved criteria for classifying hazardous substances [NOHSC: 1008(2004)].
	National Code of Practice for the Preparation of Material Safety Data Sheets [NOHSC:
	2011(2003)].
	Australian Code for the Transport of Dangerous Goods by Road & Rail.
	Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted



carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants, Safe work Australia.

American Conference of Industrial Hygienists (ACGIH)

#### New Zealand:

Workplace Exposure Standards and Biological Exposure Indices

Transport of Dangerous goods on land NZS 5433.

Preparation of Safety Data Sheets - Approved Code of Practice Under the HSNO Act 1996 (HSNO CoP 8-1 0906).

Assigning a hazardous substance to a group standard.

American Conference of IndustriaLHygienists (ACGIH)