

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-010-117310

1. Identification of the material and supplier

Material name: L-CKD 220 Heavy Duty Industrial Gear Oil

Other means of identification:

Recommended use: Suitable for lubrication of various closed gear transmission system working in severe

conditions in such industries as steel, cement, power, mining and so on; Suitable for circulation lubrication system combined spur gear, bevel gear, spiral bevel gear and

bearing.

Restrictions on use:

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:
 86-800-810-9886

 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 Australia

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

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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

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:

Response:

Storage:

Disposal:

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

classification:

2	Composition/information	on ingradiants
ა.	Composition/information	on marealents

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.

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5. Fire-fighting measures

Suitable extinguishing media:

Extinguishing media which must not be

used for safety reasons:

Specific hazards arising from the

chemical:

In case of heat, fire and strong oxidants can lead to burning. Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes, nitrogen oxides, phosphate, certain metal oxides and

Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

other decomposition products, in the case of incomplete combustion.

Special protective equipment and precautions for fire fighters:

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive 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. Accidental release measures

Personal precautions, protective

equipment and emergency procedures:

Avoid build up of vapour. Ensure sufficient supply of air. Avoid contact with eyes or skin. Contact with water - danger of sliding. Wear appropriate personal protective equipment and clothing to prevent exposure. Increase ventilation. Evacuate all unprotected

personnel.

Water.

Environmental 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 and materials for containment

and cleaning up:

For large spills: Remove with vacuum truck or pump to storage/salvage vessels.

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 continuity by bonding and grounding (earthing) all equipment.

Conditions for safe storage, including any

incompatibilities:

Storage regulation

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 standards, biological monitoring:

Not available

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.	

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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 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 concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

Appropriate engineering controls: Provide sufficient ventilation to keep airborne levels as low as possible. Where vapours or

mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a

local exhaust ventilation system is required.

Personal protective equipment:

Eye/face protection: No special eye protection is normally required. Where splashing is possible, wear safety

glasses with side shields as a good safety practice.

Skin protection: 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.

Respiratory protection: 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 provide adequate protection.

Hand protection: Suggested materials for protective gloves include: Neoprene, 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 availablePH:Not availableMelting point/Freezing point:Not availableBoiling 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)

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Solubility (H₂O): Insoluble in water

Partition coefficient (n-octanol/water): > 6 (estimated value)

Auto-ignition temperature: >320°C

Decomposition temperature: Not available

Viscosity, dynamic: 198mm/s2 - 242 mm/s2 (40°C)

Specific heat value:

Particle size:

Volatile organic compounds content:

Not available

Not available

Not available

Saturated vapour concentration:

Not available

Release of invisible flammable vapours

Not available

and gases:

Additional parameters

Shape and aspect ratio:

Crystallinity:

Not available

Not available

Not available

Surface area:

Not available

Not available

Not available

Ionisation (redox potential):

Not available

Not available

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,

certain metal oxides and other decomposition products, in the case of incomplete

combustion.

No data available.

11. Toxicological information

Toxicological data:

Carcinogenicity:

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.

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Reproductive toxicity:

STOT- single exposure:

STOT-repeated exposure:

Aspiration hazard:

No data available.

No data available.

No data available.

Other information This product has no known adverse effect on human health.

Information on routes of exposureNo data available.Symptoms related to exposureNo data available.Numerical measures of toxicityNo data available.Immediate, delayed and chronic healthNo data available.

12. Ecological information

Ecotoxicity:

effects from exposure

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: This material is not expected to be readily biodegradable.

Bioaccumulative potential: This material contains components with potential to bioaccumulation.

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

Other adverse effects: 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

Disposal of any contaminated

Safe handling and disposal methods:

Australia:

packaging:

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

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

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for closed containers when use occurring in open containers

Not Applicable Not Applicable Not Applicable

New Zealand Approved Handler

Subject to Regulation 56 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations, the substance must be under the personal control of an Approved Handler when present in a quantity greater than or equal 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 China (IECSC)	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 Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	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)

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

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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).



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)