

# Safety Data Sheet

According to SS586:2014 L-CKD 150 Industrial Gear Oil

Version 1.0

Issue date: 03/02/2015

Revision date: 03/02/2015 SDS Record Number:

CSSS-TCO-010-116182

# Section 1 Identification of the substance/mixture and of the company/undertaking

Product identifier:

Identification on the label/Trade name: L-CKD 150 Industrial Gear Oil

Additional identification: Not available See section 3 Identification of the product: Not available Index Number: REACH registration No.: Not available

## Relevant identified uses of the substance and uses advised against:

#### Identified uses:

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.

# Uses advised against:

Not available.

## Details of the supplier of the safety data sheet:

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

86-400-810-9886 Telephone: Fax: 86-10-82410856

## **Emergency telephone Number:**

86-400-810-9886 Only available during office hours (8:30a.m.-17:30p.m. Beijing Time Zone)

Available outside office hours? YFS NO Χ

#### **Section 2 Hazards Identification**

# Classification of the substance/mixture:

**GHS Classification** Not classified

label elements:

**Hazard Pictograms:** No hazard pictogram is used. Signal Word(S): No signal word is used.

**Hazard Statement:** Not applicable. Precautionary statement: Not applicable.

Other hazards:

Not available.

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# Section 3 Composition/information on ingredients

Substance/Mixture: Mixture

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
Highly refined mineral oil	N/A	64742-44-5	265-146-1	90-99%
isopropanol	N/A	67-63-0	200-661-7	1-10%

# Section 4 First aid measures

#### Description of first aid measures:

In all cases of doubt, or when symptoms persist, 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:

No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

#### In case of ingestion:

No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

#### Most important symptoms and effects, both acute and delayed:

The product is not classified as harmful to human health effect.

# Indication of any immediate medical attention and special treatment needed:

If skin irritation or rash occurs, get medical advice/attention.

# Section 5 Fire-Fighting measures

**Extinguishing media:** 

Use water fog, foam, dry chemical or carbon dioxide to extinguish flames. Suitable extinguishing media:

Unsuitable extinguishing media: Water.

Special hazards arising from the

Special fire fighting methods and

substance or mixture

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 other decomposition products, in the case of incomplete combustion. Fire-fighters should wear appropriate protective equipment and self-contained

special protective actions for breathing apparatus (SCBA) with a full face-piece operated in positive pressure fire-fighters:

mode.

# Section 6 Accidental release measures

#### Personal precautions, protective equipment and emergency procedures:

Provide adequate ventilation. Avoid skin and eye contact. Refer to section 8 of SDS For non-emergency personnel:

for personal protection details.

Wear an appropriate NIOSH/MSHA approved respirator if dust is generated. For emergency responders:

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Environmental Precautions: Do not allow material to be released to the environment without proper

governmental permits.

Methods for Containment and 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.

**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:

Protective measures: 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.

Advice on general occupational hygiene: Do not eat, drink and smoke in work areas. Wash hands after use. Remove

contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including

any incompatibilities:

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.

Specific end use(s): Not applicable.

## Section 8 Exposure Controls/Personal Protection

**Control parameters:** 

**OCCUPATIONAL EXPOSURE LIMITS (OEL)** 

**INGREDIENT DATA:** 

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US ACGIH Threshold	isopropanol	2-Propanol	200 ppm	400 ppm	Not Available	TLV® Basis: Eye & URT irr;
Limit Values (TLV)						CNS impair; BEI

## **EMERGENCY LIMITS:**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
isopropanol	Isopropyl alcohol	400 ppm	400 ppm	12000 ppm

Ingredient	Original IDLH	Revised IDLH
Highly refined mineral oil	Not Available	Not Available
isopropanol	12,000 ppm	2,000 [LEL] ppm

## **Exposure controls:**

**Appropriate engineering controls:** Provide adequate ventilation to control airborne concentrations below the exposure

guidelines/limits.

Individual protection measures, such as 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.

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**Hand protection:** Use protective gloves which is chemically resistant to this material.

**Body 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. Suggested materials for

protective gloves include: Neoprene, Nitrile rubber.

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.

**Thermal hazards:** Wear suitable protective clothing to prevent heat.

**Environmental exposure controls:** Avoid discharge into the environment.

According to local regulations, Federal and official regulations.

# Section 9 Physical and chemical properties

#### Information on basic physical and chemical properties:

Appearance: Yellow to brown transparent oily liquid

Colour: Yellow to brown

Odorless or slight odor

Odour threshold: Not available pH: Not available

**Melting point/range (°C):** 0 °C (Highly refined mineral oil)

Boiling point/range (°C): > 280 °C (typ)

Flash point (°C): 250 °C (open cup) (typ)

Evaporation rate:

Flammability limit - lower (%):

Flammability (solid, gas):

Ignition temperature (°C):

Upper/lower flammability/explosive limits:

Vapour pressure (40°C):

Not available

Vol.5MPa(20°C)

Vapour density: >1(air=1)

**Density:** 0.88 kg/l - 0.93 kg/l(20°C)

Bulk density (kg/m³):

Water solubility (g/l):

Insoluble

n-Octanol/Water (log Po/w): > 6 (estimated value)

Auto-ignition temperature: >320°C

Decomposition temperature: Not available

**Viscosity:**  $135 \text{mm/s}^2 - 168 \text{ mm/s}^2 (40 ^{\circ}\text{C})$ 

Explosive properties: Non explosive

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Oxidising properties:

Molecular Formula:

Not available

Molecular Weight:

Not available

Other information:

Fat solubility(solvent- oil to be specified) Not available

etc:

Surface tension:Not availableDissociation constant in water( pKa):Not availableOxidation-reduction Potential:Not availableSpecific gravity:Not available

# Section 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: Contact with strong oxidants can lead to burning.

**Conditions to avoid:** Extreme heat and high energy sources of ignition and strong oxidizers.

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.

# **Section 11 Toxicological information**

Toxicokinetics, metabolism and distribution:

Non-human toxikological data: Not available

Information on toxicological effects:

Acute toxicity:

**LD50(Oral, Rat):** > 5000 mg/kg bw **LD50(Dermal, Rabbit):** > 5000 mg/kg bw **LC50(Inhalation, Rat):** > 10000 mg/m $^3$  bw

Skin corrosion/Irritation: Not classified Serious eye damage/irritation: Not classified Respiratory or skin sensitization: Not classified Germ cell mutagenicity: Not classified Not classified Carcinogenicity: Not classified Reproductive toxicity: STOT- single exposure: Not classified Not classified STOT-repeated exposure:

## **Section 12 Ecological information**

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

Acute t	oxicity	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 t	oxicity	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.

Bioaccumulation is unlikely due to the very low water solubility of this product;

Bioaccumulative potential: therefore bioavailability to aquatic organisms is minimal.

When released into the environment, adsorption to sediment and soil will Be the

Mobility in soil: predominant behavior.

Results of PBT&vPvB assessment: Not available. Other adverse effects: Not available.

# **Section 13 Disposal considerations**

Waste treatment methods: The material should be disposed of by incineration in a chemical incinerator in

compliance with national and regional requirements.

**Product / Packaging disposal:** 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	Not regulated	Not regulated	Not regulated		
Packaging group	Not regulated	Not regulated	Not regulated		
Environmental hazards	No	No	No		
Special precautions for user	See section 2.2	See section 2.2	See section 2.2		
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated	Not regulated	Not regulated		

# **Section 15 Regulation information**

# Safety, health and environmental regulations/legislation specific for the substance or mixture:

y,					
Highly refined mineral oil (64742-44-5) is found on	"Not Applicable"				
the following regulatory lists					
isopropanol(67-63-0) is found on the following	"Not Applicable"				
regulatory lists					

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## **Section 16 Other information**

## **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.

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