

Safety Data Sheet

According to Hazard Communication Standard (29 CFR 1910.1200)

L-CKD 220 Heavy Duty Industrial Gear Oil

Version 1.0

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1. Product and Company Identification

Material name L-CKD 220 Heavy Duty Industrial Gear Oil

CAS # See section 3
Product code 60205841

Product 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.

Manufacturer/Supplier

Supplier(Manufacturer): SINOPEC LUBRICANT CO., LTD.

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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

PreventionNot applicable.ResponseNot applicable.StorageNot applicable.DisposalNot applicable.Other hazardsNot available.

3. Composition / Information on Ingredients

Components	CAS#	Percent	
Highly refined mineral oil	Mixture	95- 99%weight	
Compound additive	Mixture	1-5%weight	
distillates (petroleum), solvent dewaxed heavy	64742-65-0	0.01-0.1%weight	
paraffinic			
distillates (petroleum), hydrotreated heavy	64742-54-7	0.01-0.1%weight	
paraffinic	04142-04-1	0.01-0.1 /sweigitt	

4. First Aid Measures

First aid procedures

No specific first aid measures are required. As a precaution, remove contact lenses, Eve contact

if worn, and flush eyes with water.

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.

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.

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

get medical advice.

Notes to physician Treat symptoms.

5. Fire Fighting Measure

Flammable properties Not available.

Extinguishing media

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

Not available.

Unsuitable extinguishing media Firefighting equipment/instructions

This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective

equipment, including self-contained breathing apparatus.

Hazardous combustion products

Carbon monoxide, carbon dioxide, and unidentified organic compounds.

6. Accidental Release Measures

Eliminate all sources of ignition in vicinity of spilled material.

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

> 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

> further contamination of soil, surface water or groundwater. Clean up spill as soon

consistent with applicable regulations.

Personal precautions

Environmental precautions

7. Handling and Storage

Handling Avoid contaminating soil or releasing this material into sewage and drainage

systems and bodies of water. Electrostatic charge may accumulate and create a hazardous condition when handling 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. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'. 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.

Storage

Keep container tightly closed in a dry and well-ventilated place.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Туре	Value	Form
PEL	5 mg/m3	Mist.
	2000 mg/m3	
	500 ppm	
		PEL 5 mg/m3 2000 mg/m3

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
distillates (petroleum), hydrotreated	TWA	5 mg/m3	Inhalable fraction.
heavy paraffinic (CAS 64742-54-7)			
distillates (petroleum), solvent	TWA	5 mg/m3	Inhalable fraction.
dewaxed heavy paraffinic (CAS			
64742-65-0)			

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	Form	
distillates (petroleum), solvent	Ceiling	1800 mg/m3		
dewaxed heavy paraffinic (CAS	STEL	10 mg/m3	Mist.	
64742-65-0)				

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash

hands before breaks and at the end of workday.

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.

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.

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

Respiratory protection

Skin protection

may not provide adequate protection.

General hygiene Wash hands, forearms and face thoroughly after handling chemical products, considerations before eating, smoking and using the lavatory and at the end of the working

period.

9. Physical & Chemical Properties

Appearance

Physical state Liquid
Form Liquid

ColorLight to BrownOdorPetroleum odorOdor thresholdNot availablepHNot available

Vapor pressure <0.01 mmHg Maximum @ 37.8 °C(100 °F)

Vapor density>1 MinimumBoiling point>280 °C(536 °F)Freezing Point-9 °C(15.8 °F)Melting point/Freezing pointNot available

Solubility (water) Soluble in hydrocarbon solvents; insoluble in water.

Density 0.88-0.93 kg/l @ 20°C (68°F) (Typical)

Flash point (Cleveland Open Cup) 200 °C (356 °F) Minimum

Partition coefficient Not available Flammability limits in air, upper, %by volume Not available Flammability limits in air, lower, % by volume Not available **Auto-ignition temperature** Not available VOC Not available Percent volatile Not available Molecular Formula Not available **Molecular Weight** Not available

Other data

Viscosity 198 mm²/s ~ 242 mm²/s @ 40°C (104°F) Minimum

Dissociation constantNot availablePour Point:Not available

10. Chemical Stability & Reactivity Information

ReactivityThe substance is stable under normal storage and handling conditions.

Chemical stability Material is stable under normal conditions. May react with strong acids or strong

oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Conditions to avoid Incompatible materials. Heat. Hot surfaces. Flames.

Incompatible materials Strong acids, strong oxidizing agents.

Hazardous decomposition products

Carbon monoxide, carbon dioxide, and unidentified organic compounds.

Possibility of hazardous reactions No hazardous reactions known.

11. Toxicological Information

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: Not available

Information on toxicological effects:

Acute toxicity:

distillates (petroleum), solvent dewaxed heavy paraffinic (CAS# 64742-65-0)

LD50(Oral, Rat): > 5 000 mg/kg bw LD50(Dermal, Rabbit): > 5 000 mg/kg bw LC50(Inhalation, Rat): > 5.53 mg/L, 4 h 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

12. Ecological Information

Toxicity:

distillates (petroleum), solvent dewaxed heavy paraffinic (CAS# 64742-65-0)

Acute to	xicity	Time	Species	Method	Evaluation	Remarks
LL50	> 100 mg/L	96h	Fish	OECD 203	N/A	N/A
EL50	> 10 000 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

This material is not expected to be readily biodegradable. The biodegradability of

Persistence and degradability: this material is based on an evaluation of data for the components or a similar

material.

Bioaccumulative potential:Not available.Mobility in soil:Not available.Results of PBT&vPvB assessment:Not available.Other adverse effects:Not available.

13. Disposal Considerations

Disposal instructions Dispose of contents/container in accordance with

local/regional/national/international regulations.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even

after container is emptied.

14. Transport Information

DOT

Basic shipping requirements:

UN number Not regulated
Proper shipping name Not regulated
Hazard class Not regulated
Packing group Not regulated

Environmental hazards No

IATA

UN number Not regulated
UN proper shipping name Not regulated
Transport hazard class(es) Not regulated
Packing group Not regulated

Environmental hazards No

IMDG

UN number Not regulated
UN proper shipping name Not regulated
Transport hazard class(es) Not regulated
Packing group Not regulated

Environmental hazards No

15. Regulatory Information

US federal regulations

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

California Proposition 65

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3,

subd. (a))

distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)

distillates (petroleum), solvent dewaxed heavy paraffinic (CAS 64742-65-0)

16. Other Information

HMIS®ratings Health: 0

Flammability: 1
Physical hazard: 0

NFPA ratings Health: 0

Flammability:1 Instability: 0

Disclaimer The information in the sheet was written based on the best knowledge and

experience currently available.

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