

# 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: 18/09/2019

SDS Record Number: CSSS-TCO-010-1172303

# 1. Identification of the material and supplier

Material name: FD 60 Final Drive and Axle Oil

Other means of identification:

Recommended use: Suitable for use in off-highway vehicles' Final Drive & Axles where currently specify the

use of Cat FD-1 specification fluids.

Restrictions on use: They are not recommended for final drives which contain wet brakes, and can't be used in

engines, transmissions or hydraulic systems.

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

Contact person(E-mail):

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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: Not applicable. Response: Not applicable. Storage: Not applicable. Disposal: Not applicable.

Other hazards which do not result in

Not applicable.

classification:

3. Composition/information on ingredients

Components	CAS No.	Percent
Highly refined mineral oil	64742-44-5	90-98%
Additive	Mixture	2-10%

## 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

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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

other decomposition products, in the case of incomplete combustion.

Special protective equipment and precautions for fire fighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing

apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Environmental precautions:

Provide adequate ventilation. Avoid inhalation of vapour. Avoid skin and eye contact. Refer to section 8 of SDS for personal protection details.

Do not allow material to be released to the environment without proper governmental permits.

Methods and materials for containment and cleaning up:

Stop the source of the release if you can do it without risk. 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

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

Not available

Water.

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.

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour

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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 air-purifying respirators are provided adequate protection.

circumstances where air-purifying respirators may not provide adequate protection.

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

## 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:** 0 °C (Highly refined mineral oil)

Boiling point and boiling range: > 280 °C (typ)

Flash point: 278 °C (open cup) (typ)

Evaporation rate:

Flammability (solid, gas):

Upper/lower flammability or explosive

Not available

Not available

limits:

Vapor pressure: <0.5MPa(40°C) Vapor density: >1(air=1)

**Density:**  $0.89 \text{ kg/l}(20^{\circ}\text{C}) \text{ (typ)}$ 

Solubility (H<sub>2</sub>O): Insoluble

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

Auto-ignition temperature: >260°C

Decomposition temperature: Not available

**Viscosity, dynamic:** 21.9 mm/s2 - 26.1 mm/s2 (100°C)

Specific heat value: Not available
Particle size: Not available



Volatile organic compounds content:Not available% volatile:Not availableSaturated vapour concentration:Not availableRelease of invisible flammable vapoursNot available

and gases:

**Additional parameters** 

Shape and aspect ratio:

Crystallinity:

Dustiness:

Not available

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 can lead to burning.

Conditions to avoid: Incompatible materials. 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.

> 5000 mg/kg bw

# 11. Toxicological information

Toxicological data:

Acute toxicity: LD50(Oral, Rat):

LD50(Dermal, Rabbit): > 5000 mg/kg bw LC50(Inhalation, Rat): > 10000 mg/m3 bwSkin corrosion/Irritation: No data available. No data available. Serious eye damage/irritation: Respiratory or skin sensitization: No data available. Germ cell mutagenicity: No data available. No data available. Carcinogenicity: No data available. Reproductive toxicity: No data available. STOT- single exposure: 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

Symptoms related to exposure

No data available.

effects from exposure



# 12. Ecological information

## **Ecotoxicity:**

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

Persistence and degradability:

This product is expected to be inherently biodegradable.

Bioaccumulative potential:

Bioaccumulation is unlikely due to the very low water solubility of this product; therefore bioavailability to aquatic organisms is minimal.

Mobility in soil:

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

predominant behavior.

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

Safe handling and disposal methods: Disposal of any contaminated packaging: Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

#### Australia

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

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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	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.

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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) Not available. Canada Domestic Substances List (DSL) Not available. Canada Non-Domestic Substances List (NDSL) Not available. China Inventory of Existing Chemical Substances in China Not available. (IECSC)

Europe European Inventory of Existing Commercial Chemical

Substances (EINECS)

Substances (LineCo

Europe European List of Notified Chemical Substances (ELINCS) Not available.

Japan Inventory of Existing and New Chemical Substances Not available.

(ENCS)

Korea Existing Chemicals List (ECL) Not available.

New Zealand Inventory Not available.

Philippines Philippine Inventory of Chemicals and Chemical Not available.

Substances (PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Not available.

# 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.

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Not available.

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<sup>\*</sup>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).



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)

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