

GM Limited Axle Lubricant Additive Part #: 88900330 Version: 3.0 Revision Date: 12/11/2021

# SAFETY DATA SHEET

# 1. Identification

Identification

Product name: LUBRIZOL® 6178

Additional identification

Chemical name: Mixture

Recommended use and restriction on use

**Recommended use:** Automotive gear oil additive

**Restrictions on use:** None identified.

Details of the supplier of the safety data sheet

Supplier

Company Name: THE LUBRIZOL CORPORATION

Address: 29400 LAKELAND BOULEVARD WICKLIFFE, OH 44092-2298 US

**Telephone:** 440)943-1200

**Distributor** 

Company Name: ISUZU AUSTRALIA LTD

Address: 66 FOUNDATION ROAD TRUGANINA VIC 3029

**Telephone:** +613 9644 4444

**Emergency Telephone number:** 

**Australia**: 1800 638 556 (24HR) **New Zealand**: 0800 154 166 (24HR)

# 2. Hazard(s) identification

Hazard Classification: Not classified

**Label Elements:** 

Hazard Symbol:
Signal Word:
Hazard Statement:
Precautionary Statements:
No symbol
No signal word.
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

## 3. Composition/information on ingredients

Chemical name	CAS number	Percent by Weight
Mineral oil	64742-52-5	50 – 60%

SDS\_US - 240-LZ6178 1/10



Revision Date: 12/11/2021

## 4. First-aid measures

**Ingestion:** Treat symptomatically. Get medical attention.

**Inhalation:** Remove exposed person to fresh air if adverse effects are observed.

**Skin Contact:** Wash with soap and water. Get medical attention if symptoms occur.

Launder contaminated clothing before reuse.

Eye contact: Any material that contacts the eye should be washed out immediately with

water. If easy to do, remove contact lenses.

Most important symptoms/effects, acute and delayed

**Symptoms:** See section 11.

Indication of immediate medical attention and special treatment needed

**Treatment:** Treat symptomatically.

# 5. Fire-fighting measures

**General Fire Hazards:** No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

CO2, Dry chemical or Foam. Water can be used to cool and protect

exposed material.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. See section 10 for additional

information.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment for fire-fighters:

Recommend wearing self-contained breathing apparatus.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ventilate area if spilled in confined space or other poorly ventilated areas. Personal Protective Equipment must be worn, see Personal Protection

Section for PPE recommendations.

**Environmental Precautions:** Avoid release to the environment. Prevent further leakage or spillage if safe

to do so.

Methods and material for containment and cleaning up:

Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert

material.

SDS US - 240-LZ6178 2/10



Revision Date: 12/11/2021

## 7. Handling and storage

**Precautions for safe handling:** Observe good industrial hygiene practices. Provide adequate ventilation.

Wear appropriate personal protective equipment. Avoid environmental

contamination.

Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures. Use grounding and bonding connection when transferring material. In case of spills, beware of slippery floors and surfaces.

**Maximum Handling** 

Temperature:

60 °C 140 °F

Conditions for safe storage,

including any incompatibilities:

Store away from incompatible materials. See section 10 for incompatible

materials.

Maximum Storage Temperature:

45 °C 113 °F

## 8. Exposure controls/personal protection

# **Control Parameters:**

**Occupational Exposure Limits** 

Chemical name	Туре	Exposure Limit Values	Source
Mineral oil - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2014)
Mineral oil - Mist.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
Mineral oil - Mist.	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
Mineral oil	IDLH	2,500 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
Mineral oil - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)

Appropriate engineering controls:

Adequate ventilation should be provided so that exposure limits are not exceeded. No special requirements under ordinary conditions of use and with adequate ventilation. Material should be handled in enclosed vessels and equipment, in which case general (mechanical) room ventilation should be sufficient. Local exhaust ventilation should be used at points where dust, mist, vapors or gases can escape into the room air.

## Individual protection measures, such as personal protective equipment

**General information:** Use personal protective equipment as required.

**Eye/face protection:** If contact is likely, safety glasses with side shields are recommended.

**Skin Protection** 

**Hand Protection:** Consult clothing/glove manufacturer to determine appropriate type of glove

for given situation. Use nitrile or neoprene gloves. Use good industrial hygiene practices. In case of skin contact, wash hands and arms with soap

and water. Chemical resistant gloves. Chemical resistant gloves.

SDS US - 240-LZ6178 3/10



Revision Date: 12/11/2021

Other: Long sleeve shirt is recommended. Do not wear rings, watches or similar

apparel that could entrap the material.

**Respiratory Protection:** Use respirator with a combination organic vapor and high efficiency filter

cartridge if recommended exposure limit is exceeded. Use self-contained

breathing apparatus for entry into confined space, for other poorly

ventilated areas and for large spill clean-up sites. Consult with an industrial hygienist to determine the appropriate respiratory protection for your

specific use of this material. A respiratory protection program compliant with

all applicable regulations must be followed whenever workplace conditions require the use of a respirator. Use disposable dust/mist mask if the recommended exposure limit is exceeded. Use respirator with a combination organic vapor and high efficiency filter cartridge if

recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas

and for large spill clean-up sites.

**Hygiene measures:** Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing to remove contaminants. Discard contaminated

footwear that cannot be cleaned.

# 9. Physical and chemical properties

**Appearance** 

Physical state:liquidForm:liquidColor:Amber

Odor: Slight petroleum
Odor threshold: No data available.
pH: Not applicable
Freezing point: No data available.
Boiling Point: No data available.

Flash Point: 309 °F (154 °C) (Pensky-Martens Closed Cup)

**Evaporation rate:**No data available. **Flammability (solid, gas):**No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper:

Explosive limit - lower:

Vapor pressure:

No data available.

**Relative density:** 0.9 - 0.93 60.1 °F (15.6 °C)

Solubility(ies)

Solubility in water:
Solubility (other):
No data available.
Partition coefficient (n-octanol/water):
No data available.
Auto-ignition temperature:
No data available.
Decomposition temperature:
No data available.

**Viscosity:** 35 mm2/s ( 104 °F (40 °C) ) 6.3 mm2/s (100 °C (212 °F) )

SDS US - 240-LZ6178 4/10



Revision Date: 12/11/2021

Other information

Pour Point Temperature: -15 °C

# 10. Stability and reactivity

**Reactivity:** No data available.

**Chemical Stability:** Material is stable under normal conditions.

Possibility of hazardous

reactions:

Will not occur.

**Conditions to avoid:** Do not expose to excessive heat, ignition sources, or oxidizing materials.

Excessive heat.

**Incompatible Materials:** Strong acids. Oxidizing agents. Strong oxidizing agents. Strong oxidizing

agents.

**Hazardous Decomposition** 

**Products:** 

Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion. Thermal decompositon may generate phosphorus oxides and other

phosphorus containing compounds.

# 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation:** No data available.

**Ingestion:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

# Information on toxicological effects

## **Acute toxicity**

Oral

Product: Not classified for acute toxicity based on available data. Swallowing

material may cause irritation of the gastrointestinal lining, nausea,

vomiting, diarrhea, and abdominal pain.

**Dermal** 

Product: Not classified for acute toxicity based on available data.

Inhalation

Mineral oil Dusts, mists and fumes: LC 50 (Rat, , 4 h): > 5 mg/l (Literature) Not

classified

Dusts, mists and fumes Vapour: LC 50 (Rat, , 4 h): > 20 mg/l (Read

across) Not classified

Vapour

SDS\_US - 240-LZ6178 5/10



Revision Date: 12/11/2021

**Skin Corrosion/Irritation:** 

Product: Remarks: Prolonged or repeated skin contact as from clothing

wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin. Not classified

as a primary skin irritant.

Serious Eye Damage/Eye Irritation:

Product: Remarks: Not classified as a primary eye irritant.

Respiratory sensitization:

No data available

Skin sensitization:

Mineral oil Classification: Not a skin sensitizer. (Read across)

**Specific Target Organ Toxicity - Single Exposure:** 

Product: If material is misted or if vapors are generated from heating,

exposure may cause irritation of mucous membranes and the upper

respiratory tract.

No data available

**Aspiration Hazard:** 

No data available

**Chronic Effects** 

Carcinogenicity:

Product: This product contains mineral oils which are severely refined and not

considered carcinogenic. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346

test.

Mineral oil All of the oils in this product have been demonstrated to contain less

than 3% extractables by the IP 346 test. This product contains mineral oils which are severely refined and not considered

carcinogenic.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:** 

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified

**Germ Cell Mutagenicity:** 

No data available

Reproductive toxicity:

No data available

**Specific Target Organ Toxicity - Repeated Exposure:** 

No data available

SDS US - 240-LZ6178 6/10



Revision Date: 12/11/2021

# 12. Ecological information

**Ecotoxicity** 

Fish

Mineral oil LC 50 (Fathead Minnow, 96 h): > 100.1 mg/l

**Aquatic Invertebrates** 

Mineral oil EC 50 (Water flea (Daphnia magna), 48 h): > 10,000 mg/l

EC 50 (Water flea (Daphnia magna), 21 d): > 10 mg/l NOEC (Water flea (Daphnia magna), 21 d): 10 mg/l

**Toxicity to Aquatic Plants** 

Mineral oil EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 100.1 mg/l

NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): >= 100.1

mg/l

Toxicity to soil dwelling organisms

No data available

**Sediment Toxicity** 

No data available

**Toxicity to Terrestrial Plants** 

No data available

**Toxicity to Above-Ground Organisms** 

No data available

Toxicity to microorganisms

Mineral oil EC 50 (Sludge, 0.1 d): > 10,000 mg/l

**Persistence and Degradability** 

Biodegradation

Mineral oil OECD TG 301 F, 31 %, 28 d, Not readily degradable.

Bioaccumulative potential

**Bioconcentration Factor (BCF)** 

No data available

Partition Coefficient n-octanol / water (log Kow)

No data available

**Mobility:** 

No data available

Other adverse effects

Product: Harmful to aquatic life with long lasting effects.

## 13. Disposal considerations

**Disposal instructions:** Treatment, storage, transportation, and disposal must be in accordance

with applicable Federal, State/Provincial, and Local regulations.

Dispose of packaging or containers in accordance with local, regional, national and international regulations. Empty container contains product

residue which may exhibit hazards of product.

SDS US - 240-LZ6178 7/10



Revision Date: 12/11/2021

**Contaminated Packaging:** Container packaging may exhibit hazards.

## 14. Transport information

#### DOT

Not regulated.

#### **IMDG**

Not regulated.

### **IATA**

Not regulated.

## Transport in bulk according to Annex II of MARPOL and the IBC Code

None known.

The DOT shipping information in this section is based on a bulk container. Please review the accompanying shipping papers for the correct shipping descriptions based the size of the package. Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. During transportation, steps must be taken to prevent load shifting or materials falling, and all relating legal statutes should be obeyed. Review classification requirements before shipping materials at elevated temperatures.

# 15. Regulatory information

## **US Federal Regulations**

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

None present or none present in regulated quantities.

## **CERCLA Hazardous Substance List (40 CFR 302.4)**

None present or none present in regulated quantities.

Superfund amendments and reauthorization act of 1986 (SARA)

#### **SARA 311 Classifications**

Not classified

## **SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

## **SARA 304 Emergency Release Notification**

None present or none present in regulated quantities.

#### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

# **US State Regulations**

## **US. California Proposition 65**



This product can expose you to chemicals including: Methanol (499.00PPM) which is [are] known to the State of California to cause birth defects or other reproductive harm.

#### **Inventory Status**

Australia (AIIC)

All components are in compliance with chemical notification requirements in Australia.

SDS US - 240-LZ6178 8/10



Revision Date: 12/11/2021

#### Canada (DSL/NDSL)

All substances contained in this product are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List (DSL) or are exempt.

#### China (IECSC)

All components of this product are listed on the Inventory of Existing Chemical Substances in China.

### European Union (REACh)

To obtain information on the REACH compliance status of this product, please e-mail REACH@SDSInquiries.com.

#### Great Britain (UK REACH)

To obtain information on the UK REACH compliance status of this product, please e-mail REACH@SDSInquiries.com.

## Japan (ENCS)

All components are in compliance with the Chemical Substances Control Law of Japan.

#### Korea (ECL)

All components are in compliance in Korea.

## New Zealand (NZIoC)

All components are in compliance with chemical notification requirements in New Zealand.

#### Philippines (PICCS)

All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

### Switzerland (SWISS)

All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.

#### Taiwan (TCSCA)

All components of this product are listed on the Taiwan inventory.

# Turkey (KKDIK)

To obtain information on the KKDIK compliance status of this product, please e-mail REACH@SDSInquiries.com.

## United States (TSCA)

All substances contained in this product are listed on the TSCA inventory or are exempt.

The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.

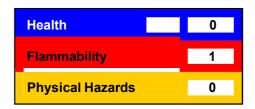
SDS US - 240-LZ6178 9/10



Revision Date: 12/11/2021

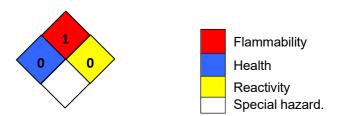
# 16.Other information, including date of preparation or last revision

#### **HMIS Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

#### **NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

**Issue Date:** 12/11/2021

Version #: 3.0

**Source of information:** Internal company data and other publically available resources.

Further Information: Contact supplier (see Section 1)

Disclaimer:

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local regulations remains the responsibility of the user.

SDS\_US - 240-LZ6178 10/10