

# SAFETY DATA SHEET

# 1. Identification

Identification Product name:	LUBRIZOL® 6178	
Additional identification		
Chemical name:	Mixture	
Recommended use and restriction on use		
Necommended use and rest	iction on use	
Recommended use: Restrictions on use:	Automotive gear oil additive 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	
<b>F</b>		

### Emergency telephone number:

FOR TRANSPORT EMERGENCY CALL CHEMTREC (+1)703 527 3887, OR WITHIN USA 800 424 9300

# 2. Hazard(s) identification

Hazard Classification	Not classified
Label Elements:	
Hazard Symbol:	No symbol
Signal Word:	No signal word.
Hazard Statement:	not applicable
Precautionary Statements:	not applicable
Other hazards which do not result in GHS classification:	None identified.

# 3. Composition/information on ingredients

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

# 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/effect	ts, 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) exting	uishing 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 an	nd 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	5
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.
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.
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so.
SDS_US - LUBRIZOL® 6178	2/10



# 7. Handling and storage

Precautions for safe handling:	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. Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid environmental contamination.
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 (03 2014)
Mineral oil - Mist.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Mineral oil - Mist.	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Mineral oil - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

Appropriate engineering controls:	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. Adequate ventilation should be provided so that exposure limits are not exceeded. No special requirements under ordinary conditions of use and with adequate ventilation.
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:	Use nitrile or neoprene gloves. Use good industrial hygiene practices. In case of skin contact, wash hands and arms with soap and water. Consult clothing/glove manufacturer to determine appropriate type of glove for given situation. Nitrile. Chemical resistant gloves. Chemical resistant gloves.



Other:	Do not wear rings, watches or similar apparel that could entrap the material. Long sleeve shirt is recommended.
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. 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. 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.
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:	liquid	
Form:	liquid	
Color:	Amber	
Odor:	Slight petroleum	
Odor threshold:	No data available.	
pH:	No data available.	
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 (%):	No data available.	
Flammability limit - lower (%):	No data available.	
Explosive limit - upper (%):	No data available.	
Explosive limit - lower (%):	No data available.	
Vapor pressure:	No data available.	
Vapor density:	No data available.	
Relative density:	0.9 - 0.93 60.1 °F (15.6 °C)	
Solubility(ies)		
Solubility in water:	Insoluble in water	
Solubility (other):	No data available.	
Partition coefficient (n-octanol/water):	No data available.	



Auto-ignition temperature: Decomposition temperature: Viscosity:	No data available. No data available. 35 mm2/s(104 °F (40 °C))6.3 mm2/s(100 °C (212 °F))
Other information Pour Point Temperature:	5 °F (-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. Do not expose to excessive heat, ignition sources, or oxidizing materials. Excessive heat.
Incompatible Materials:	Oxidizing agents. Contact with acids. Strong acids. Oxidizing agents. Strong oxidizing agents. Contact with acids. 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:	Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain. Not classified for acute toxicity based on available data.
<b>Dermal</b> Product:	Not classified for acute toxicity based on available data.
Inhalation Product:	Not classified for acute toxicity based on available data.



Skin Corrosion/Irritation: Product:	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.
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 - Si Product:	ngle Exposure: If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.
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 No carcinogenic components identified	on of Carcinogenic Risks to Humans: ed
US. National Toxicology Program	
US. OSHA Specifically Regulated S No carcinogenic components identified	<b>Substances (29 CFR 1910.1001-1050):</b> ed
Germ Cell Mutagenicity:	No data available
Reproductive toxicity:	No data available
SDS_US - LUBRIZOL® 6178	6/10



# Specific Target Organ Toxicity - Repeated Exposure: No data available

12. Ecological information	
Ecotoxicity Fish	
	No data available
Aquatic Invertebrates Mineral oil	EC 50 (Water flea (Daphnia magna), 2 d): > 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	No data available
Toxicity to soil dwelling organis	sms No data available
Sediment Toxicity	No data available
Toxicity to Terrestrial Plants	No data available
Toxicity to Above-Ground Orga	nisms No data available
<b>Toxicity to microorganisms</b> 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:	No data available.



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

# 14. Transport information

#### DOT

Not regulated.

#### IMDG

Not regulated.

#### ΙΑΤΑ

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)

Chemical Identity	CAS number	Reportable quantity	Calculated <sup>1</sup>
Methanol	67-56-1	5000 lbs	> 50000 lbs
			> 22680 kgs

<sup>1</sup>This is the amount product/material required to be released before CERCLA reporting is required.

#### 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



Chemical Identity	CAS number	Percent by Weight	Reportable quantity
Methanol	67-56-1	0.1 %	5000 lbs

# SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

# **US State Regulations**

#### US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Methanol	0.119%
Cyanide	25.00PPB

#### **Inventory Status**

Australia (AICS)

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

#### 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.

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.

United States (TSCA)

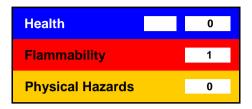
All substances contained in this product are listed on the TSCA inventory or are exempt.

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



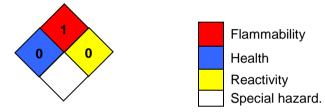
# 16.Other information, including date of preparation or last revision

#### **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:	02/20/2018
Version #:	2.0
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.