



1	Chemical Product and Company Identification
	<p><i>Lubrizol International, Inc. ARBN 002 747 944</i> <i>28 River Street</i> <i>Silverwater, New South Wales 2128</i> <i>Australia</i> <i>61-2-97415200</i></p>
Product Trade Name	LUBRIZOL® 6178
CAS Number	Not applicable for mixtures.
Synonyms	None.
Generic Chemical Name	Confidential.
Product Type	Automotive gear oil additive.
Preparation/Revision Date	30 September 2011
UN Number	Not applicable.
Dangerous Goods Class and Subsidiary Risk	Not applicable.
HAZCHEM Code	Not regulated
24 Hour Transportation Emergency Phone No.	IN CASE OF TRANSPORT EMERGENCY, CALL (02) 9741 5213 IN AUSTRALIA, OR CHEMTREC INTERNATIONAL (+1) (703-527-3887). COLLECT CALLS ACCEPTED
Statement of Hazardous Nature	Not classified as hazardous according to criteria of the National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)].
Posionous Schedule Number	None Allocated
MSDS No.	11178240-1132419-3025181-102103
2	Hazards Identification
Principal Hazards	<ul style="list-style-type: none"> • This material has no known health hazards. <p style="text-align: center;"><i>See Section 11 for complete health hazard information.</i></p>
3	Composition/Information on Ingredients
Hazardous Ingredients	This material has no known hazards under applicable laws.
4	First Aid Measures
Oral	DO NOT INDUCE VOMITING. Get immediate medical attention.
Eyes	Flush with water at least 30 minutes. Get medical attention if eye irritation develops or persists.
Skin	Wash with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before reuse.
Inhalation	Remove exposed person to fresh air if adverse effects are observed.
Additional Information	Note to physician: Treat symptomatically.
5	Fire Fighting Measures
Flash Point	154 °C, 309.2 °F PMCC (Typical)
Extinguishing Media	CO ₂ , dry chemical, or foam. Water can be used to cool and protect exposed material.
Firefighting Procedures	Recommend wearing self-contained breathing apparatus. Water may cause splattering.
Unusual Fire & Explosion Hazards	See section 10 for additional information.
6	Accidental Release Measures
Spill Procedures	Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.

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7	Handling and Storage
Pumping Temperature	Not determined.
Maximum Handling Temperature	60 °C, 140 °F
Handling Procedures	Keep containers closed when not in use. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty container contains product residue which may exhibit hazards of product. Dispose of packaging or containers in accordance with local, regional, national and international regulations.
Maximum Storage Temperature	45 °C, 113 °F
Storage Procedures	See section 10 for incompatible materials.
Maximum Loading Temperature	60 °C, 140 °F

8	Exposure Controls/Personal Protection
Exposure Limits	<p>Australia Not applicable.</p> <p>New Zealand Not applicable.</p>
Other Exposure Limits	Contains mineral oil. Under conditions which may generate mists, observe the Worksafe Australia exposure limit of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter. See Guidance Note [NOHSC:3008 (1995)].
Engineering Controls	Use with adequate ventilation.
Hand Protection	Nitrile.
Eye Protection	Safety Glasses.
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.
Clothing Recommendation	Long sleeve shirt is recommended. Launder contaminated clothing before reuse.

9	Physical and Chemical Properties
Flash Point	154 °C, 309.2 °F PMCC (Typical)
Upper Flammable Limit	Not determined.
Lower Flammable Limit	Not determined.
Autoignition Point	Not determined.
Explosion Data	Material does not have explosive properties.
Vapour Pressure	Not determined.
pH	Not determined.
Specific Gravity	0.92 (15.6 °C)
Bulk Density	Not determined.
Water Solubility	Insoluble.
Percent Solid	Not determined.
Percent Volatile	Not determined.
Volatile Organic Compound	Not determined.
Vapour Density	Not determined.
Evaporation Rate	Not determined.
Odor	Mild petroleum
Appearance	Amber colored liquid.
Viscosity	35 Centistokes (40 °C) 6.3 Centistokes (100 °C)
Odor Threshold	Not determined.
Boiling Point	Not determined.
Pour Point Temperature	-15 °C, 5 °F
Melting / Freezing Point	Not determined.
<i>The above data are typical values and do not constitute a specification.</i>	

10	Stability and Reactivity
Stability	Material can become unstable at elevated temperatures and pressures.
Decomposition Temperature	Not determined.
Incompatibility	Oxidizing agents.
Polymerization	Will not occur.

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Thermal Decomposition

Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Under combustion conditions, oxides of the following elements will be formed: phosphorus.

11	Toxicological Information
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– ACUTE EXPOSURE –

Oral Toxicity	The LD50 in rats is > 5000 mg/Kg. Based on data from components or similar materials.
Eye Irritation	Not expected to cause eye irritation. Based on data from components or similar materials.
Skin Irritation	Not expected to be a primary skin irritant. Based on data from components or similar materials. 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.
Dermal Toxicity	The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials.
Inhalation Toxicity	No data available to indicate product or components may be a toxic inhalation hazard.
Respiratory Irritation	If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract. Based on data from components or similar materials.
Dermal Sensitization	No data available to indicate product or components may be a skin sensitizer.
Inhalation Sensitization	No data available to indicate product or components may be respiratory sensitizers.

– CHRONIC EXPOSURE –

Chronic Toxicity	No data available to indicate product or components present at greater than 1% are chronic health hazards.
Carcinogenicity	This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extrables by the IP 346 test.
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Reproductive Toxicity	No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.
Teratogenicity	No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

– ADDITIONAL INFORMATION –

Other	No other health hazards known.
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12	Ecological Information
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– ENVIRONMENTAL TOXICITY –

Freshwater Fish Toxicity	The acute LC50 is 100 - 1000 mg/L based on component data.
Freshwater Invertebrates Toxicity	Not determined.
Algal Inhibition	Not determined.
Saltwater Fish Toxicity	Not determined.
Saltwater Invertebrates Toxicity	Not determined.
Bacteria Toxicity	The acute EC50 is > 1000 ppm based on component data.
Miscellaneous Toxicity	Not determined.

– ENVIRONMENTAL FATE –

Biodegradation	At least 25% of the components in this product show limited biodegradation based on OECD 301-type test data. At least 25% of the components in this product show moderate biodegradation based on OECD 302-type test data.
Bioaccumulation	25% or greater of the components will not bioconcentrate, based on actual data.
Soil Mobility	Not determined.

13	Disposal Considerations
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Waste Disposal	Waste management should be in compliance with the Waste Disposal Act and local laws. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.
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14	Transport Information
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ICAO/IATA I	Not regulated
ICAO/IATA II	Not regulated
IMDG	Not regulated
IMDG EMS Fire	Not applicable.
IMDG EMS Spill	Not applicable.
IMDG MFAG	Not applicable.
MARPOL Annex II	Not determined.
USCG Compatibility	Not determined.
ADG	Not regulated

Not regulated

Review classification requirements before shipping materials at elevated temperatures.

15	Regulatory Information
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Signal Word Not applicable.
Labelling Information Not applicable.

– Global Chemical Inventories –

USA All components of this material are on the US TSCA Inventory or are exempt.
 EU All components are in compliance with the EC Seventh amendment Directive 92 /32/EEC.
 Japan All components are in compliance with the Chemical Substances Control Law of Japan.
 Australia All components are in compliance with chemical notification requirements in Australia.
 New Zealand All components are in compliance with chemical notification requirements in New Zealand.
 Canada All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.
 Switzerland All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.
 Korea All components are in compliance in Korea.
 China All components of this product are listed on the Inventory of Existing Chemical Substances in China.
 Philippines All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).
 Taiwan May require notification before sale in Taiwan.

– Product Registrations –

Finnish Registration Number Not Registered
 Swedish Registration Number 421751-9
 Norwegian Registration Number 11591
 Danish Registration Number 778665
 Swiss Registration Number 611500
 Italian Registration Number Not Registered

– Other / International –

Miscellaneous Regulatory Information Not determined.

16	Other Information
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US NFPA Codes	Health	Fire	Reactivity	Special
	1	1	1	N/E

HMIS Codes	Health	Fire	Reactivity
	0	1	1

Precautionary Labels

- This material has no known health hazards.

Revision Indicators This MSDS has no revisions since 30 September 2011
 Contact Point Lubrizol Australia, Robert Holmes (Laboratory Services Supervisor), Phone No. (61) (02) 9741 5200

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