

LUBRIZOL Material Safety Data Sheet

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LUBRIZOL Material Safety Data Sheet: LUBRIZOL (TM) 6178, ONE G

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Lubrizol (TM) 6178, ONE G

THE LUBRIZOL CORPORATION
29400 LAKELAND BOULEVARD
WICKLIFFE, OHIO 44092
440/943-4200

CAS Registry Number Not applicable for mixtures.
Synonyms None.
Generic/Chemical Name Mixture.
Product type Automotive gear oil additive.
Preparation/Revision Date 09 January 2000
Transportation Emergency Phone No (CHEMTREC) 1-800-424-9300.
MSDS Number 9338663-2455216-8337064

2 COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients - From 20 to 29.9 percent Long chain alkenyl phosphite

3 HAZARDS IDENTIFICATION

Principal Hazards CAUTION.
- MAY CAUSE SKIN IRRITATION.

See Section 11 for complete health hazard information.

4 FIRST AID MEASURES

Oral DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. Get immediate medical attention.
Eye Flush with water at least 15 minutes. Get medical attention if eye irritation develops or persists.
Skin Wash with soap and water. Remove contaminated clothing. Get medical attention if irritation develops. Launder contaminated clothing before reuse.
Inhalation Remove exposed person to fresh air if adverse effects are observed.
Additional Note to physician: Treat symptomatically.

5 FIRE FIGHTING MEASURES

Flash Point Typical 154 Deg C, 309.2 Deg F PMCC
Upper Flammable Limit Not determined.
Lower Flammable Limit Not determined.
Extinguishing Media CO₂, dry chemical, or foam. Water can be used to cool and protect exposed material.
Special Firefighting Procedures Recommend wearing self-contained breathing apparatus. Water may cause splattering. Material will float on water.

5 FIRE FIGHTING MEASURES (CONTINUED)

Unusual Fire & Explosion Hazards	Toxic fumes, gases or vapors may evolve on burning.
Autoignition Temperature	Not determined.
Explosion Data	Material does not have explosive properties.

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. Check under Transportation and Labeling (DOT/CERCLA) and Other Regulatory Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spills.
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7 HANDLING AND STORAGE

Handling Procedures	Keep containers closed when not in use. Do not discharge into drains or the environment, dispose to an authorized waste collection point. Use appropriate containment to avoid environmental contamination. Wash thoroughly after handling. Empty container contains product residue which may exhibit hazards of product.
Storage Procedures	Equip bulk storage tanks with overfill protection such as high level alarms or secondary containment. Store drums in area with secondary containment. Storage area should be covered to prevent rain water from entering.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Procedures	Use with adequate ventilation.
Gloves Protection	Nitrile.
Eye Protection	Safety Glasses.
Respiratory Protection	Under normal use conditions, respirator is not usually required. Use NIOSH/MSHA approved disposable dust/mist mask if the 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.

9 PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure	Not determined.
pH	Not determined.
Specific Gravity	0.92 (15.6 Deg C)
Water Solubility	Insoluble.
Percent Volatile	Unknown.
Vapor Density	Not determined.
Evaporation Rate	Not determined.
Odor	Mild
Appearance	Amber colored liquid.

9	PHYSICAL AND CHEMICAL PROPERTIES (CONTINUED)
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Viscosity	35 Centistokes (40 Deg C) 6.3 Centistokes (100 Deg C)
Odor Threshold	Unknown.
Boiling Point	Not determined.
Freezing Point	Not determined.
Molecular Weight	Not determined.

10	STABILITY AND REACTIVITY
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Stability	Material can become unstable at elevated temperatures and pressures.
Incompatibility	Oxidizing agents.
Polymerization	Will not occur.
Thermal Decomposition	Smoke, carbon monoxide, 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	May cause skin irritation. 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, defatting 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 and 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 is formulated with 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% extractables 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.

11 TOXICOLOGICAL INFORMATION (CONTINUED)

Teratogenicity No data available to indicate product or any components contained at greater than 0.1 % may cause birth defects.

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Exposure Limits -- ADDITIONAL INFORMATION --
No other health hazards known.
Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter.

12 ECOLOGICAL INFORMATION

-- ENVIRONMENTAL TOXICITY --

Freshwater Fish Toxicity The acute LC50 for freshwater fish is 1 - 10 ppm, based on component data.

Freshwater Invertebrates Toxicity Not determined.

Algae Toxicity Not determined.

Saltwater Fish Toxicity Not determined.

Saltwater Invertebrates Toxicity Not determined.

Bacteria Toxicity The acute EC50 for bacteria is > 1000 ppm, based on component data.

Miscellaneous Toxicity Not determined.

Biodegradation Laboratory studies indicate limited biodegradation with non-acclimated sludge, based on component data. BIOCONCENTRATION: Not determined. SOIL MOBILITY: Not determined.

13 DISPOSAL CONSIDERATIONS

Waste Disposal This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261.

14 TRANSPORT INFORMATION

U.S.DOT Bulk Shipping Description Not regulated.

U.S.DOT Non-Bulk Shipping Description Not regulated.

IMDG Code

Shipping Description Not regulated.

CAO Shipping Description Not regulated.

ADR/RID Hazard Class Not regulated.

15 REGULATORY INFORMATION

J.S. TSCA Inventory All components of this material are on the US TSCA Inventory.

Other TSCA Reg. Section 4a (Acetone).
May be subject to export notification under TSCA Section 12(b).

SARA Ext. Haz. Subst. This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.

Section 313 This product does not contain greater than 1.0% (greater than 0.1% for carcinogenic substance) of any chemical substances listed under SARA Section 313.

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REGULATORY INFORMATION (CONTINUED)

<p> ERCLA Hazardous Substances Cal. Prop. 65 </p>	<p>None known.</p> <p>This product contains the following chemical(s) known to the state of California to cause cancer and/or birth defects based on maximum impurity levels of components:</p> <ul style="list-style-type: none"> < 1 ppm cadmium < 1 ppm lead < 1 ppm arsenic
<p> U.S. Fuel Registration U.S. Dept. of Agriculture FDA Approval EEC EINCES </p>	<p>Not applicable.</p> <p>The USDA has accepted the data on this product to support H2 registrations.</p> <p>Not applicable.</p> <p>All components are in compliance with the EC Seventh amendment Directive 92/32/EEC.</p>
<p> Japan MITI </p>	<p>All components are in compliance with the Chemical Substances Control Law of Japan.</p>
<p> Australia </p>	<p>All components are in compliance with chemical notification requirements in Australia.</p>
<p> Canada </p>	<p>All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.</p>
<p> Canadian Fuel Registration </p>	<p>Not applicable.</p>
<p> Switzerland </p>	<p>All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.</p>
<p> Korea Korea Fuel Registration </p>	<p>All components are in compliance in Korea.</p> <p>Not applicable.</p>
<p> Phillippines </p>	<p>All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).</p>

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OTHER INFORMATION

<p> NFPA Code HMIS Code </p>	<p>Health: 1 Fire: 1 Reactivity: 1</p> <p>Health: 1 Fire: 1 Reactivity: 1</p> <p>CAUTION.</p> <p>- MAY CAUSE SKIN IRRITATION.</p> <ul style="list-style-type: none"> - Section 02,HAZARDOUS INGREDIENTS Changed: 21 Mar 1999 - Section 07,STORAGE PROCEDURES Changed: 09 Jan 2000 - Section 12,BACTERIA TOXICITY Changed: 21 Mar 1999 - Section 13,WASTE DISPOSAL Changed: 19 Jun 1999 - Section 14,ICAO SHIPPING DESCRIPTION Changed: 09 Jan 2000
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