

Material Safety Data Sheet LUBRIZOL (R) 6178, 1 GALLON

W52358

Chemical Product and Company Identification

The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092 440/943-4200

Product Trade Name

LUBRIZOL (R) 6178, I GALLON

CAS Number

Not applicable for mixtures.

Synonyms

None.

Generic Chemical Name

Mixture.

Product Type

Automotive gear oil additive.

Preparation/Revision Date 31 October 2001

Transportation Emergency (CHEMTREC) 1-800-424-9300. Outside the U.S. (703) 527-3887

Phone No.

MSDS No.

0440419-2714697-9387073

Composition/Information on Ingredients

| | | | | E | xposure Guidelines | | | | |
|---------------------------------------|--------------|-------------------------------|-----|------|--------------------|------|------|------|------------|
| <u> </u> | (: | Percentage | OS | TLA | AC | GIH | Ot | her | |
| Comp | CAS No. | (by wt.) | TWA | STEL | TWA | STEL | TVYA | STEL | Carcinogen |
| Long chain alkenyl phosphite | Confidential | From 10 to 19.9 percent | N/E | N/E | N/E | N/E | N/E | NÆ, | N/E |

- (s) Skin exposure
- (p) Proposed limit
- (c) Ceiling exposure
- (l) Recommended exposure limit (u) Supplier recommended exposure limit
- (N/E) None established

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|---|---|------------|---------------|-------------|------|---------|---|
| 3 | | Hazards Ic | lentification | | | | |
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Principal Hazards

CAUTION.

• MAY CAUSE SKIN IRRITATION.

See Section 11 for complete health hazard information.

| 4 | First Ald Measures | | | | | |
|-------------------------------------|--|--|--|--|--|--|
| Oral | DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. Get immediate medical attention. | | | | | |
| Eyes | 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 Information | Note to physician: Treat symptomatically. | | | | | |
| 5 | Fire Fighting Méasures | | | | | |
| Flash Point | 154 Deg C, 309.2 Deg F PMCC (Typical) | | | | | |
| Extinguishing Media | CO2, 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. Material will float on water. | | | | | |
| Unusual Fire & Explosion Hazards | Toxic furnes, gases or vapors may evolve on burning. | | | | | |
| 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 Lubeling (DOT/CERCLA) and Other Regulatory Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spills. | | | | | |
| 17 | Handling and Storage | | | | | |

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Not determined.

Not determined.

Maximum Pumping

Temperature

Maximum Handling

Not determined.

Temperature

Handling Procedures

Keep containers closed when not in use. Wash thoroughly after handling. Empty container contains product residue which may exhibit hazards of

Maximum Storage Temperature

Storage Procedures

No special storage precautions required.

Loading Temperature 70 Dcg C, 158 Deg F

Exposure Controls/Personal Protection

Ventilation Procedures Use with adequate ventilation.

Gloves Precedures

Eye Protection

Safety Glasses.

Respiratory Projection 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

Long alceve shirt is recommended.

Recommendation

Physical and Chemical Properties

Flash Point

154 Deg C, 309.2 Deg F PMCC (Typical)

Upper Flammable Limit

Not determined.

Lower Flammable

Limit

Not determined. Not determined.

Autolgaltion Point

Material does not have explosive properties.

Explosion Data

Not determined.

Vapor Pressure

Not determined.

Specific Gravity

0.92 (15.6 Deg C)

Water Solubility

Insoluble.

Percent Volatile Percent VOC

Unknown, Not determined.

Vapor Density

Not determined.

Evaporation Rate

Not determined.

Odor

Mild

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Appearance

Amber colored liquid.

Viscosity

35 Centistokes (40 Deg C)

6.3 Centistokes (100 Deg C)

Odor Threshold

Unknown. **Boiling Point**

Pour Point

Not determined. Not determined.

Temperature

Not determined.

Freezing Point Molecular Weight

Not determined.

Octanol/Water

Not determined.

Partition Coefficient

The above data are typical values and do not constitute a specification.

Stability and Reactivity 10 Material can become unstable at elevated temperatures and pressures. Stability Not determined. Decomposition Temperature Incompatibility Oxidizing agents. Will not occur. **Polymerization** Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of Thermal incomplete combustion. Under combustion conditions, oxides of the Decomposition following elements will be formed: phosphorus. Toxicological information 11

-- 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. Not expected to meet EU R38 criteria. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edoma, drying, and cracking of the skin.

The LD50 in rabbits is > 2000 mg/kg. Based on data from components or

Inhalation Toxicity

Dermal Toxicity

similar materials. No data available to indicate product or components may be a toxic

Respiratory Irritation

inhalation hazard. 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.

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HP LASERJET 3330 Jun 18 2008 BIRIPH Dermal Sensitization

No data available to indicate product or components may be a skin

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 Tokicity

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.

Exposure Limits

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

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Ecological Information

-- ENVIRONMENTAL TOXICITY --

Freshwater Fish Toxicity

The acute LC50 for freshwater fish is > 1000 ppm, based on component

Freshwater

Not determined.

Invertebrates Toxicity

Algal Inhibition

Not determined,

Saltwater Fish Toxicity Not determined.

Saltwater

Not determined.

Invertebrates Toxicity

Bacteria Toxicity

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

Miscellaneous Toxicity Not determined.

-- ENVIRONMENTAL FATE--

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| Biodegradation | Laboratory studies indicate limited biodegradation with non-acclimated sludge, based on component data. | | | | |
|--|---|--|--|--|--|
| Blosccumulation | Not determined. | | | | |
| Soil Mobility | Not determined. | | | | |
| Soft Mounty | 1/00 do 1/11/2010 | | | | |
| 13 | Disposal Consideration | | | | |
| Waste Disposal | This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261. | | | | |
| 14 | Transport Information | | | | |
| ІСАО/ЈАТА | Not regulated. | | | | |
| IMDG (Ambient) | Not regulated. | | | | |
| IMDG (Elevated) | Not regulated. | | | | |
| IMDG EMS | Not applicable. | | | | |
| IMDG MFAG | Not applicable. | | | | |
| IMO Marine Bulk | DO NOT TRANSPORT - CONTACT PSCD | | | | |
| USCG Compatibility | Not determined. | | | | |
| U.S. DOT Bulk | Not regulated. | | | | |
| (Ambient) | | | | | |
| U.S. DOT Bulk | Not regulated. | | | | |
| (Elevated) | N. 1. 1 | | | | |
| U.S. DOT Non-Bulk | Not regulated. | | | | |
| DOT NAERG | Not applicable. Not regulated. | | | | |
| TDG Bulk (Ambient) TDG Bulk (Elevated) | Not regulated. | | | | |
| TDG Non-Bulk | Not regulated. | | | | |
| Mexico | Not regulated. | | | | |
| ADR/RID (Ambient) | Not regulated. | | | | |
| ADR/RID (Elevated) | Not regulated | | | | |
| ADG (Ambient) | Not regulated | | | | |
| ADG (Elevated) | Not regulated. | | | | |
| 15 | Regulatory Information | | | | |

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U.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.

SARA 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.

TDG Regulated Limit. None known.

CERLA Hazardous Substances

None known.

Cal. Prop. 65

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: < 1 ppm cadmium < 1 ppm lead < 1 ppm

arsenic

U.S. Fuel Registration

U.S. Dept of

Not applicable.

The USDA has accepted the data on this product to support H2 registrations.

Agriculture U.S. Tariff Heading

Number

3811.21.00.00

Schedule B Number

3811.21,0000

FDA Approval

Not applicable.

EEC EINECS

All components are in compliance with the EC Seventh amendment

Directive 92 /32/EEC.

Finnish Registration

Number

Not Registered

Sweden Registration

Not Registered

Number

11591 Norway Registration

Number Danish Registration Not Registered

Number

Switzerland Bag T

Registration Number

611500

Japan METI

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.

Canada

All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.

All components are in compliance with the Environmentally Hazardous

Switzerland

Substances Ordinance in Switzerland.

All components are in compliance in Korea.

Korea Koreun Registration 🐪

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Philippines

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

China

All components of this product are listed on the Inventory of Existing

Chemical Substances in China.

China Registration

Number

33594

New Zealand

Registration Number

Malta Registration

Not Registered

FC961106015

Number

Ukraine Registration Not Registered

Number

Other Information 16

US NFPA Codes

| , | Health | Pire | Reactivity | Special |
|---|--------|------|------------|---------|
| | 1 | 11 | 1 | N/E |

HMIS Codes

| Health | Fire | Reactivity |
|--------|------|------------|
| 1 | 1 | |

Precautionary Labels

CAUTION. MAY CAUSE SKIN IRRITATION.

Revision Indicators

Section: 2 HAZARDOUS INGREDIENTS

Section: 7 HANDLING PROCEDURES

Section: 7 STORAGE PROCEDURES

Changed: 02 August 2001 Section: 10 THERMAL DECOMPOSITION Changed: 02 August 2001

Changed: 02 August 2001

Changed: 02 August 2001

Section: 12 FRESHWATER FISH TOXICTTY Changed: 02 August 2001 Section: 15 CALIFORNIA PROPOSITION 65 Changed: 02 August 2001

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