

Prepared according to Global Harmonized System (GHS) standards.

Substance/Product Identification

The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092 Tel: (440) 943-4200

Product Trade Name FZ1511AX

CAS Number Not applicable for mixtures.

Synonyms None.

Generic Chemical Name Mixture.

Recommended Use Multipurpose.

Restrictions on use Not determined.

Created Date 25 September 2013

Preparation/Revision Date 25 September 2013

Transportation Emergency Phone FOR TRANSPORT EMERGENCY call CHEMTREC: (+1) 703-527-3887 (outside the U.S.), 1-800-424-9300 (in the

**No.** U.S.)

MSDS No. 13700078-9322039-3019321-102103

2 Hazards Identification

AppearanceBrown liquid.OdorMild

Classification Hazardous to the aquatic environment (acute hazard) category 3

Hazardous to the aquatic environment (chronic hazard) category 3

Target OrgansNot determined.Signal WordNot determined.Hazard statementHarmful to aquatic life.

Harmful to aquatic life with long lasting effects.

Other Hazards None identified.

Precaution(s) Avoid release to the environment.

Disposal All disposal practices must be in accordance with local, national and international regulations.

See Section 11 for complete health hazard information.

Composition/Information on Ingredients

## **Hazardous Ingredients**

providers

Comp	CAS No.	Percentage (by wt.)	Carcinogen
Zinc alkyldithiophosphate	84605-29-8	From 1 to 4.9 percent	N/E

4 First Aid Measures

Eyes Flush with water at least 30 minutes. Get medical attention if eye irritation develops or persists.

SkinWash with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before reuse.InhalationRemove exposed person to fresh air if adverse effects are observed. If experiencing respiratory symptoms call a poison

center or doctor.

Ingestion DO NOT INDUCE VOMITING. Get immediate medical attention.

Advice for the protection of first-aid When providing first aid always protect yourself against exposure to chemicals or blood born diseases by wearing gloves,

masks and eye protection. After providing first aid wash your exposed skin with soap and water.

Additional Information Note to physician: Treat symptomatically.

5 Fire Fighting Measures

procedures

Flash Point >= 202 °C, 395.6 °F PMCC (Minimum)

Extinguishing Media CO2, dry chemical, or foam. Water can be used to cool and protect exposed material.

Unsuitable Extinguishing Media Not determined.

Firefighting Procedures

Recommend wearing self-contained breathing apparatus. Do not use a water jet.

Unusual Fire & Explosion Hazards Elevated temperatures can lead to the formation of irritating fumes and vapors. See section 10 for additional information.

6 Accidental Release Measures

Personal precaution, protective equipment and emergency

Personal protective equipment must be worn. Avoid contact with skin, eyes or clothing. Ventilate area if spilled in a confined

space or other poorly ventilated area. Material on floor may be slippery.

Environmental precaution and protective procedures.

Take precautions to avoid release to the environment. Prevent from entering into soil, ditches, sewers, waterways and/or

groundwater

Methods for clean-up and removal Shut off leak if without risk. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.

7 Handling and Storage

Pumping Temperature

Maximum Handling Temperature

Not determined.

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. Avoid breathing vapor. Avoid contact with eyes, skin and clothing. 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** 

Not determined.

Storage Procedures

Take precautions to avoid release to the environment. Odorous and toxic fumes may form from the decomposition of this product if stored at temperatures in excess of 113 deg F (45 deg C) for extended periods of time or if heat sources in excess

of 250 deg F (121 deg C) are used. See section 10 for incompatible materials.

Maximum Loading Temperature Not determined.

8 Exposure Controls/Personal Protection

**Exposure Limits** 

EU

Not applicable.

UK

Not applicable.

Ireland

Not applicable.

India

Not applicable.

Cyprus

Not applicable.

Other Exposure Limits Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH

TWA of 5 mg per cubic meter.

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.

Personal Protective Equipment

**Respiratory Protection** 

Use half mask respirator with an organic vapor cartridge if 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.

Eye Protection Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield.

Gloves Procedures

Nitrile.

Clothing Recommendation Long sleeve shirt is recommended. When working with heated material, wear heat protective clothing. Do not wear rings,

watches or similar apparel that could entrap the material and cause a skin reaction. Launder contaminated clothing before

reuse.

Hygiene Measures Wash thoroughly after handling this product.

9 Physical and Chemical Properties

Flash Point >= 202 °C, 395.6 °F PMCC (Minimum)

Upper Flammable LimitNot determined.Lower Flammable LimitNot determined.Autoignition PointNot determined.Decomposition TemperatureNot determined.

**Explosion Data** Material does not have explosive properties.

Vapor Pressure Not determined. pН Not determined. **Specific Gravity** 0.88 (15.6 °C) **Bulk Density** Not determined. Water Solubility Insoluble. **Percent Solid** Not determined. **Percent Volatile** Not determined. **Volatile Organic Compound** Not determined. Vapor Density Not determined. **Evaporation Rate** Not determined. Water/Octanol Coefficient Not determined.

Odor Mild **Odor Threshold** Not determined. Appearance Brown liquid. Viscosity Not determined. **Boiling Point** Not determined. **Boiling Point Range** Not determined. **Pour Point Temperature** Not determined. Melting / Freezing Point Not determined.

The above data are typical values and do not constitute a specification. Vapor pressure data are calculated unless otherwise noted.

10 Stability and Reactivity

**Stability** Material is normally stable at room temperature and pressure. See the Handling and Storage Section for further details.

 Decomposition Temperature
 Not determined.

 Incompatibility
 Oxidizing agents.

 Polymerization
 Will not occur.

Thermal Decomposition Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Hydrogen sulfide and

alkyl mercaptans and sulfides may also be released.

Conditions to Avoid High temperatures.

11 Toxicological Information

-- ACUTE EXPOSURE --

Eye Irritation Not expected to cause eye irritation. Based on data from components or similar materials. Vapors may cause irritation.

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.

**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. Inhalation of processing mists and vapors may

be irritating to the respiratory system.

 $\textbf{Dermal Toxicity} \hspace{1cm} \textbf{The LD50 in rabbits is} > 2000 \text{ mg/Kg. Based on data from components or similar materials.}$ 

Inhalation Toxicity Overexposure to vapors or mist may cause dizziness, headache, nausea, and/or flu-like symptoms. Avoid inhalation of mists

r vapors.

Oral Toxicity The LD50 in rats is > 10,000 mg/Kg. Based on data from components or similar materials. Ingestion of this material may

cause gastrointestinal irritation.

Dermal SensitizationNo data available to indicate product or components may be a skin sensitizer.Inhalation SensitizationNo data available to indicate product or components may be respiratory sensitizers.

Aspiration Hazard Not determined.

-- 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

FZ1511AX

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.

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

-- ADDITIONAL INFORMATION --

Other Pre-existing skin conditions may be aggravated by prolonged or repeated exposure. Persons with sensitive airways (e.g.,

asthmatics) may react to vapors.

12 **Ecological Information** 

-- ENVIRONMENTAL TOXICITY --

Freshwater Fish Toxicity The acute LC50 is 10 - 100 mg/L based on component data.

Freshwater Invertebrates Toxicity Chronic effects expected at 10 - 100 mg/L based on component data.

**Algal Inhibition** Not determined. Not determined. Saltwater Fish Toxicity **Saltwater Invertebrates Toxicity** Not determined.

**Bacteria Toxicity** The acute EC50 is 100 - 1000 ppm based on component data.

Miscellaneous Toxicity Not determined.

-- ENVIRONMENTAL FATE --

At least 25% of the components in this product show moderate biodegradation based on OECD 301-type test data. At least Biodegradation

25% of the components in this product show moderate biodegradation based on OECD 302-type test data.

Bioaccumulation Less than 1.0% of the components potentially bioconcentrate, based on octanol/water coefficients.

Soil Mobility Not determined. Notes None known.

13 **Disposal Considerations** 

**Disposal Considerations** All disposal practices must be in accordance with local, regional, national and international regulations. Do not dispose in

landfill.

**Contaminated Containers or** 

**Packaging** 

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

14 **Transport Information** 

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. DOT NAERG Not applicable.

Review classification requirements before shipping materials at elevated temperatures.

15 **Regulatory Information** 

-- Global Chemical Inventories --

USA All components of this material are on the US TSCA Inventory or are exempt.

Other TSCA Reg. None known.

EU To obtain information on the REACH compliance status of this product, please visit Lubrizol.com/REACH, or e-mail us at

REACH\_MSDS\_INQUIRIES@Lubrizol.com

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. FZ1511AX

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.

**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.

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

Miscellaneous Regulatory

Information

Not determined.

-- Other U.S. Federal Regulations --

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

**SARA Section 313** From 1 to 4.9 percent zinc compounds; contains 0.3% as Zn.

None known.

**SARA 311 Classifications** 

Acute Hazard No Chronic Hazard No Fire Hazard No Reactivity Hazard No

**CERCLA Hazardous Substances** 

-- State Regulations --

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: < 0.01 ppm lead

-- Product Registrations --

U.S. Fuel Registration Not applicable. Finnish Registration Number Not Registered **Swedish Registration Number** Not Registered Norwegian Registration Number Not Registered **Danish Registration Number** Not Registered **Swiss Registration Number** Not Registered **Italian Registration Number** Not Registered

-- Other / International --

Miscellaneous Regulatory

Information

Not determined.

ı	16	Other Information

Product Safety and Compliance Department (440-943-1200) **Issuing Department** 

**Created Date** 25 September 2013 Preparation/Revision Date 25 September 2013

US NFPA Codes

**HMIS Codes** 

Health	Fire	Reactivity	Special
1	1	0	N/E

**Revision Indicators** 

Health Fire Reactivity This MSDS has no revisions since 25 September 2013

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