

Prepared according to Global Harmonized System (GHS) standards.

1 Substance/Product Identification

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

Product Trade Name FZ1503AX

CAS Number Not applicable for mixtures.

Synonyms None.

Generic Chemical Name Mixture.

Recommended Use Multipurpose.

Restrictions on use Not determined.

Created Date 20 December 2011

Preparation/Revision Date 22 August 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.** 23460517-2221528-4019331-102103

2 Hazards Identification

Appearance Dark amber colored liquid.

Odor Mild

Classification Sensitization - skin category 1B

Hazardous to the aquatic environment (chronic hazard) category 4

Target Organs Not determined.

Symbol(s)

Signal Word Warning.

Hazard statement May cause an allergic skin reaction.

May cause long lasting harmful effects to aquatic life.

Other Hazards None identified.

Precaution(s) Avoid breathing dust / fume / gas / mist / vapors / spray. Wear protective gloves. Contaminated work clothing should not be

allowed out of the workplace. Avoid release to the environment.

 $IF \ ON \ SKIN: Wash \ with \ plenty \ of \ soap \ and \ water. \ Wash \ contaminated \ clothing \ before \ reuse. \ If \ skin \ irritation \ or \ rash$ 

occurs: Get medical attention.

**Storage Procedures** Store away from oxidizers.

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

See Section 11 for complete health hazard information.

3 Composition/Information on Ingredients

# **Hazardous Ingredients**

Comp	CAS No.	Percentage (by wt.)	Carcinogen
Hydrocarbon polymer	Confidential.	From 20 to 29.9 percent	N/E
Borate ester	Confidential.	From 0.5 to 1.5 percent	N/E

4 First Aid Measures	
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Eyes Rinse cautiously with water for 20 minutes or until chemical is removed. Remove contact lenses, if present and easy to do. If

eye irritation persists, get medical attention.

Skin Wash with plenty of soap and water. Remove contaminated clothing. If skin irritation or rash occurs: Get medical attention.

Launder contaminated clothing before reuse.

Inhalation Remove exposed person to fresh air if adverse effects are observed. If irritation persists or if toxic symptoms are observed,

get medical attention.

Ingestion Do NOT induce vomiting. Never give anything by mouth to a person who is losing consciousness, unconscious or convulsing.

Immediately call a poison center or doctor if you feel unwell.

Advice for the protection of first-aid

providers

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.

Fire Fighting Measures

Flash Point 197 °C, 386.6 °F PMCC (Typical)

Extinguishing Media

CO2, dry chemical, foam, water spray, water fog. 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. Use water to cool containers exposed to fire. A solid stream of water will spread the burning material. Spills produce extremely slippery surfaces. Do not release

chemically contaminated water into drains, soil or surface water.

**Unusual Fire & Explosion Hazards** 

Burning may produce irritating, toxic and obnoxious fumes. Container may rupture in a fire situation. DO NOT USE a solid

stream of water. See section 10 for additional information.

6 Accidental Release Measures

Personal precaution, protective equipment and emergency procedures Only trained personnel should be permitted in area. Do not touch or walk through spilled material. Personal protective equipment must be worn. 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. Do not flush into surface water, sanitary sewer or ground water

system

Methods for clean-up and removal

Pick up free liquid for recycle and/or disposal. Pump any free liquid into an appropriate closed container. Residual liquid can be absorbed on inert material. Place in metal containers for recovery or disposal.

Pumping Temperature

Ambient

Maximum Handling Temperature Handling Procedures

70 °C. 158 °F

Handling and Storage

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. When handling, do not eat, drink, or smoke. Avoid breathing dust, fume, gas, mist, vapors or spray. Ground and bond containers when transferring material. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Launder contaminated clothing before reuse. Empty containers retain material residue. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark or other sources of ignition. Dispose of packaging or containers in accordance with local, regional, national and international regulations.

Maximum Storage Temperature 45 °C, 113 °F

Storage Procedures

- 45 C, 115

Store separately from oxidizers. Take precautions to avoid release to the environment. Store in a dry, well-ventilated place. Store separately from incompatible materials. Keep container tightly closed. Containers which are open must be carefully resealed and kept upright to prevent leakage. Do not store in open, unlabeled or mislabeled containers. See section 10 for incompatible materials.

**Maximum Loading Temperature** 70 °C, 158 °F

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 Use local exhaust ventilation to control mists or vapors. Additional ventilation or exhaust may be required to maintain air

concentrations below recommended exposure limits.

Personal Protective Equipment

Respiratory Protection Under normal use conditions, respirator is not usually required. Use disposable dust/mist mask if the recommended exposure

limit is exceeded.

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

Gloves Procedures Consult clothing/glove manufacturer to determine appropriate type of glove for given situation. Gloves should always be

inspected before each use and discarded if they show tears, pinholes, or signs of wear.

Clothing Recommendation Long sleeve shirt is recommended. Wear a chemically protective apron when contact with material may occur. Use

chemically protective boots when necessary to avoid contaminating shoes. 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. Do not eat, drink or smoke when using this product.

9 Physical and Chemical Properties

Flash Point 197 °C, 386.6 °F PMCC (Typical)

 Upper Flammable Limit
 Not determined.

 Lower Flammable Limit
 Not determined.

 Autoignition Point
 Not determined.

 Decomposition Temperature
 Not determined.

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

Vapor Pressure Not determined.

pH Not determined.

Specific Gravity 0.85 (15.6 °C)

Bulk Density 7.06 Lb/gal, 0.85 Kg/L

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 Dark amber colored liquid.

Viscosity 138 Centistokes (25 °C) 70 Centistokes (40 °C) 12 Centistokes (100 °C)

Boiling Point Not determined.

Boiling PointNot determined.Boiling Point RangeNot determined.Pour Point Temperature-39 °C, -38 °FMelting / Freezing PointNot 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 moderately elevated temperatures and pressures.

**Decomposition Temperature** Not determined.

Incompatibility Strong oxidizing agents. Nitrates Peroxides. Chlorates

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 Do not expose to excessive heat, ignition sources, or oxidizing materials.

Toxicological Information

#### -- ACUTE EXPOSURE --

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.

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 similar materials.

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.

Oral Toxicity The LD50 in rats is > 10,000 mg/Kg. Based on data from components or similar materials. Material can be aspirated into the

lungs during the act of swallowing or vomiting. This could result in pulmonary edema and chemical pneumonitis.

Dermal SensitizationMay cause skin sensitization. Based on data from components or similar materials.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

 $IARC.\ All\ of\ the\ oils\ in\ this\ product\ have\ been\ demonstrated\ to\ contain\ less\ than\ 3\%\ extractables\ by\ the\ IP\ 346\ test.$ 

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 No other health hazards known.

12 Ecological Information

### -- ENVIRONMENTAL TOXICITY --

Freshwater Fish Toxicity
Not determined.

Freshwater Invertebrates Toxicity
Algal Inhibition
Not determined.

Saltwater Fish Toxicity
Not determined.

Saltwater Invertebrates Toxicity
Not determined.

Miscellaneous Toxicity
Not determined.

### -- ENVIRONMENTAL FATE --

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

Bioaccumulation 25% or greater 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

Empty container retains product residue and can be hazardous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat, flame, sparks, static electricity, or other sources of ignition. 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. FZ1503AX

**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

JapanAll components are in compliance with the Chemical Substances Control Law of Japan.AustraliaAll components are in compliance with chemical notification requirements in Australia.

New Zealand This product requires notification before sale in New Zealand.

Canada All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic

Substances List.

**Switzerland** This product requires notification before sale 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
 This product requires notification in China.

 Taiwan
 May require notification before sale in Taiwan.

Miscellaneous Regulatory

**SARA 311 Classifications** 

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

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.

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

CERCLA Hazardous Substances None known.

-- State Regulations --

Cal. Prop. 65 This product does not intentionally contain any chemicals known by the State of California to cause cancer and/or birth

defects. Moreover, we do not routinely analyze its products for impurities which may be such chemicals.

-- Product Registrations --

U.S. Fuel RegistrationNot applicable.Finnish Registration NumberNot RegisteredSwedish Registration NumberNot RegisteredNorwegian Registration NumberNot RegisteredDanish Registration NumberNot RegisteredSwiss Registration NumberNot RegisteredItalian Registration NumberNot Registered

-- Other / International --

Miscellaneous Regulatory

Information

US NFPA Codes

Not determined.

16 Other Information

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

Created Date 20 December 2011

**Preparation/Revision Date** 22 August 2013

 Health
 Fire
 Reactivity
 Special

 2
 1
 1
 N/E

**HMIS Codes** 

Health	Fire	Reactivity
2	1	1

## **Revision Indicators**

This MSDS has no revisions since 22 August 2013

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