

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 FZ1515AX

CAS Number Not applicable for mixtures.

Synonyms None.

Generic Chemical Name Mixture.

Recommended Use Multipurpose.

Restrictions on use Not determined.

Created Date 22 December 2011

Preparation/Revision Date 25 March 2014

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. 74162792-2128233-5025411-102103

2 Hazards Identification

Appearance Dark amber colored liquid.

Odor Mild

Classification Acute Toxicity - inhalation category 4

Skin corrosion / irritation category 3 Sensitization - skin category 1B Aspiration toxicity category 1

Target Organs Not determined.

Symbol(s)



Signal Word Danger.

Hazard statement Harmful if inhaled.

Causes mild skin irritation.

May be fatal if swallowed and enters airways.

May cause an allergic skin reaction.

Other Hazards None identified.

Precaution(s) Avoid breathing dust / fume / gas / mist / vapors / spray. Use only outdoors or in a well-ventilated area. Wear protective

gloves. Contaminated work clothing should not be allowed out of the workplace.

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

occurs: Get medical attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor if you feel unwell.

IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.

Storage Procedures Store locked up. Protect from sunlight.

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

See Section 11 for complete health hazard information.

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Hazardous Ingredients

Comp	CAS No.	Percentage (by wt.)	Carcinogen
Hydrocarbon polymer	Confidential.	From 60 to 69.9 percent	N/E
Borate ester	Confidential.	From 0.5 to 1.5 percent	N/E
Alkylated phenol	Confidential.	< 0.1%	N/E

4	First Aid Measures				
Eyes	Rinse cautiously with water for 20 minutes or until chemical is removed. Remove contact lenses, if present and easy to do. It eye irritation persists, get medical attention.				
Skin	Wash with plenty of soap and water. Remove contaminated clothing. If skin irritation occurs, get medical attention. Launder contaminated clothing before reuse.				
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor.				
Ingestion	Do NOT induce vomiting. Immediately call a poison center or doctor. Aspiration of material due to vomiting can cause chemical pneumonitis which can be fatal. If vomiting occurs naturally, the casualty should lean forward to reduce the risk of aspiration.				
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. If providing CPR use mouthpieces, resuscitation bags, pocket masks or other ventilation devices. After providing first aid wash your exposed skin with soap and water.				
Additional Information	Note to physician: Treat symptomatically.				
5	Fire Fighting Measures				
	140.00 200.2 0D DMCC (T)				
Flash Point	149 °C, 300.2 °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. A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. 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 on heating. 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. Personal protective equipment must be worn. Avoid contact with skin or eyes. Ventilate area if spilled in a confined space or other poorly ventilated area.				
Environmental precaution and protective procedures.	Material will float on water. Do not flush into surface water, sanitary sewer or ground water system.				
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 Small spills: contain spilled material. Transfer to secure containers. Where necessary collect using absorbent media. Larger spills: stop spill and dike area to prevent spreading, pump liquid to salvage tank. remaining liquid may be taken up on sand, clay, earth, floor absorbent or other absorbent material and shoveled into containers. Wash spill area with soap and water.				
7	Handling and Storage				
D 1 T 1					
Pumping Temperature Maximum Handling Temperature	Ambient 70 °C, 158 °F				
Handling Procedures	Use with adequate ventilation. Keep containers closed when not in use. Avoid contact with skin or eyes. When handling, do not eat, drink, or smoke. Avoid inhalation of aerosol, mist, spray, fume or vapor. Avoid breathing dust, fume, gas, mist, vapors or spray. Use only outdoors or in a well-ventilated area. 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	Store in well ventilated place. Store in a cool, dry, well-ventilated area. Do not store in direct sunlight. 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. Store locked up. See section 10 for incompatible materials.				
Maximum Loading Temperature	70 °C, 158 °F				
8	Exposure Controls/Personal Protection				
Exmograma I im:40					
Exposure Limits	TOTAL				
Exposure Limits	EU Not applicable				
Exposure Limits	EU Not applicable.				
Exposure Limits					

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. Use good industrial hygiene

practices to avoid skin contact. If contact with the material may occur wear chemically protective gloves.

Clothing Recommendation Long sleeve shirt is recommended. 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 149 °C, 300.2 °F PMCC (Typical)

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

Explosion Data Material does not have explosive properties.

Vapor PressureNot determined.pHNot determined.Specific Gravity0.82 (15.6 °C)Bulk Density6.86 Lb/gal, 0.82 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 20 Centistokes (25 °C)
11.5 Centistokes (40 °C)

11.5 Centistokes (40 °C) 3.3 Centistokes (100 °C)

Boiling PointNot determined.Boiling Point RangeNot determined.Pour Point Temperature-54 °C, -65 °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.

FZ1515AX

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

Toxicological Information

-- ACUTE EXPOSURE --

Eye Irritation May cause eye irritation. Does not meet Canadian D2B or EU R36 criteria. Based on data from components or similar

materials. Vapors formed from heating may cause eye irritation.

Skin Irritation May cause mild skin irritation. Does not meet Canadian D2B or EU R38 criteria. 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.

Dermal Toxicity The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials.

Inhalation Toxicity The LC50 (4 hr.) in rats for dust or mist of this material is 1.0 - 5.0 mg/l. Based on data from components or similar

materials.

 Comp
 Percentage (by wt.)
 LC50 (4 Hr.)
 Form

 Hydrocarbon polymer
 From 60 to 69.9 percent
 1.5mg/l
 Particulate/Mist

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 May be fatal if swallowed and enters airways.

-- 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

xicity

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.

Ecological Information

-- ENVIRONMENTAL TOXICITY --

Freshwater Fish Toxicity
Not determined.
Freshwater Invertebrates Toxicity
Not determined.
Algal Inhibition
Not determined.
Saltwater Fish Toxicity
Not determined.
Saltwater Invertebrates Toxicity
Not determined.
Bacteria Toxicity
Not determined.
Miscellaneous Toxicity
Not determined.

-- ENVIRONMENTAL FATE --

BiodegradationAdequate data is not available to estimate the biodegradation potential of this material.Bioaccumulation1 - 10% of the components potentially bioconcentrate, based on octanol/water coefficients.

Soil Mobility Not determined.

Notes None known.

Disposal Considerations

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

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. 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 This product may be imported to Japan only by Lubrizol Japan.

AustraliaAll components are in compliance with chemical notification requirements in Australia.New ZealandAll 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 This product requires notification before sale in Switzerland.

Korea All components are in compliance in Korea.

PhilippinesThis product requires notification before sale in the Philippines.ChinaThis product may be imported to China only by Lubrizol China.TaiwanAll components of this product are listed on the Taiwan inventory.

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.

Fire H

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 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.

16	Other Information
10	Out momaton

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

Created Date22 December 2011Preparation/Revision Date25 March 2014

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US NFPA Codes Health

Health	Fire	Reactivity	Special
2	1	0	N/E

HMIS Codes	Health	Fire	Reactivity
	2	1	0

Revision Indicators This MSDS has no revisions since 25 March 2014

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