



Prepared according to Global Harmonized System (GHS) standards.

<b>1</b>	<b>Substance/Product Identification</b>
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*The Lubrizol Corporation  
 29400 Lakeland Boulevard  
 Wickliffe, Ohio 44092  
 Tel: (440) 943-4200*

<b>Product Trade Name</b>	<b>FZ1206AX</b>
<b>CAS Number</b>	Not applicable for mixtures.
<b>Synonyms</b>	None.
<b>Generic Chemical Name</b>	Mixture.
<b>Recommended Use</b>	Multipurpose.
<b>Restrictions on use</b>	Not determined.
<b>Created Date</b>	28 August 2012
<b>Preparation/Revision Date</b>	07 January 2014
<b>Transportation Emergency Phone No.</b>	FOR TRANSPORT EMERGENCY call CHEMTREC: (+1) 703-527-3887 (outside the U.S.), 1-800-424-9300 (in the U.S.)
<b>MSDS No.</b>	14025213-3102021-2035461-102103

<b>2</b>	<b>Hazards Identification</b>
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<b>Appearance</b>	Light colored liquid.
<b>Odor</b>	Mild
<b>Classification</b>	Hazardous to the aquatic environment (acute hazard) category 3 Hazardous to the aquatic environment (chronic hazard) category 3
<b>Target Organs</b>	Not determined.
<b>Signal Word</b>	Not determined.
<b>Hazard statement</b>	Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
<b>Other Hazards</b>	None identified.
<b>Precaution(s)</b>	Avoid release to the environment.
<b>Storage Procedures</b>	Store away from oxidizers.
<b>Disposal</b>	All disposal practices must be in accordance with local, national and international regulations.

*See Section 11 for complete health hazard information.*

<b>3</b>	<b>Composition/Information on Ingredients</b>
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**Hazardous Ingredients**

Comp	CAS No.	Percentage (by wt.)	Carcinogen
Hydrocarbon polymer	Confidential.	From 5 to 9.9 percent	N/E
Olefin sulfide	Confidential.	From 1 to 4.9 percent	N/E
Phosphoric acid esters/amine salt	Confidential.	From 1 to 4.9 percent	N/E
Alkenyl imidazoline	Confidential.	From 0.1 to 0.9 percent	N/E

<b>4</b>	<b>First Aid Measures</b>
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<b>Eyes</b>	Rinse cautiously with water for 30 minutes. Remove contact lenses, if present and easy to do. Get medical attention if eye irritation develops or persists. If eye irritation persists, get medical attention.
<b>Skin</b>	Wash with soap and water for 20 minutes or until chemical is removed. Remove contaminated clothing. Get medical attention if irritation develops. Launder contaminated clothing before reuse.
<b>Inhalation</b>	Remove exposed person to fresh air if adverse effects are observed. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. If experiencing respiratory symptoms call a poison center or doctor.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to a person who is losing consciousness, unconscious or convulsing. Call a poison center or doctor if exposed or 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. 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.

<b>5</b>	<b>Fire Fighting Measures</b>
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<b>Flash Point</b>	137 °C, 278.6 °F PMCC (Typical)
<b>Extinguishing Media</b>	CO2, dry chemical, foam, water spray, water fog. Water can be used to cool and protect exposed material.
<b>Unsuitable Extinguishing Media</b>	Not determined.
<b>Firefighting Procedures</b>	Wear full protective firegear including self-containing breathing apparatus operated in the positive pressure mode with full facepiece, coat, pants, gloves and boots. Do not direct a solid stream of water on spilled material. Use flooding amounts of water as a fog. Use water to cool containers exposed to fire. 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.
<b>Unusual Fire &amp; Explosion Hazards</b>	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.

<b>6</b>	<b>Accidental Release Measures</b>
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<b>Personal precaution, protective equipment and emergency procedures</b>	Only trained personnel should be permitted in area. 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.
<b>Environmental precaution and protective procedures.</b>	Material will float on water. Take precautions to avoid release to the environment. Do not flush into surface water, sanitary sewer or ground water system.
<b>Methods for clean-up and removal</b>	Shut off leak if without risk. 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. Wash spill area with soap and water.

<b>7</b>	<b>Handling and Storage</b>
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<b>Pumping Temperature</b>	Ambient
<b>Maximum Handling Temperature</b>	70 °C, 158 °F
<b>Handling Procedures</b>	Use with adequate ventilation. 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 eye contact. Avoid repeated or prolonged skin contact. When handling, do not eat, drink, or smoke. Avoid drinking, tasting, swallowing or ingesting this product. Avoid breathing dust, fume, gas, mist, vapors or spray. Product can accumulate static charge when handled. Equipment should be grounded. Use grounding and bonding connection when transferring material to prevent static discharge, fire and explosion. Use spark-resistant tools. Wash thoroughly after handling. Launder contaminated clothing before reuse. Do not reuse empty containers. 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.
<b>Maximum Storage Temperature</b>	45 °C, 113 °F
<b>Storage Procedures</b>	Store separately from oxidizers. Take precautions to avoid release to the environment. Store in a cool, dry, well-ventilated area. 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. Store separately from incompatible materials. Keep container tightly closed. Do not store in open, unlabeled or mislabeled containers. See section 10 for incompatible materials.
<b>Maximum Loading Temperature</b>	Not determined.

<b>8</b>	<b>Exposure Controls/Personal Protection</b>
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<b>Exposure Limits</b>	<p><b>EU</b> Not applicable.</p> <p><b>UK</b> Not applicable.</p> <p><b>Ireland</b> Not applicable.</p> <p><b>India</b> Not applicable.</p> <p><b>Cyprus</b> Not applicable.</p>
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<b>Other Exposure Limits</b>	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.
<b>Engineering Controls</b>	If use generates a mist or vapor, local exhaust ventilation is recommended. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.
<b>Personal Protective Equipment</b>	
<b>Respiratory Protection</b>	Use respirator with a combination organic vapor and high efficiency filter cartridge if 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.
<b>Eye Protection</b>	Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield.
<b>Gloves Procedures</b>	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. Use good industrial hygiene practices to avoid skin contact. If contact with the material may occur wear chemically protective gloves.
<b>Clothing Recommendation</b>	Long sleeve shirt is recommended. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction. Launder contaminated clothing before reuse.
<b>Hygiene Measures</b>	Wash thoroughly after handling this product. Do not eat, drink or smoke when using this product.

<b>9</b>	<b>Physical and Chemical Properties</b>
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<b>Flash Point</b>	137 °C, 278.6 °F PMCC (Typical)
<b>Upper Flammable Limit</b>	Not determined.
<b>Lower Flammable Limit</b>	Not determined.
<b>Autoignition Point</b>	Not determined.
<b>Decomposition Temperature</b>	Not determined.
<b>Explosion Data</b>	Material does not have explosive properties.
<b>Vapor Pressure</b>	Not determined.
<b>pH</b>	Not determined.
<b>Specific Gravity</b>	0.88 (15.6 °C)
<b>Bulk Density</b>	Not determined.
<b>Water Solubility</b>	Insoluble.
<b>Percent Solid</b>	Not determined.
<b>Percent Volatile</b>	Not determined.
<b>Volatile Organic Compound</b>	Not determined.
<b>Vapor Density</b>	Not determined.
<b>Evaporation Rate</b>	Not determined.
<b>Water/Octanol Coefficient</b>	Not determined.
<b>Odor</b>	Mild
<b>Odor Threshold</b>	Not determined.
<b>Appearance</b>	Light colored liquid.
<b>Viscosity</b>	Not determined.
<b>Boiling Point</b>	Not determined.
<b>Boiling Point Range</b>	Not determined.
<b>Pour Point Temperature</b>	-47 °C, -53 °F
<b>Melting / Freezing Point</b>	Not determined.

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

<b>10</b>	<b>Stability and Reactivity</b>
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<b>Stability</b>	Material is normally stable at room temperature and pressure. See the Handling and Storage Section for further details.
<b>Decomposition Temperature</b>	Not determined.
<b>Incompatibility</b>	Oxidizing agents.
<b>Polymerization</b>	Will not occur.
<b>Thermal Decomposition</b>	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Hydrogen sulfide and alkyl mercaptans and sulfides may also be released. Under combustion conditions, oxides of the following elements will be formed: sulfur.
<b>Conditions to Avoid</b>	Do not expose to excessive heat, ignition sources, or oxidizing materials.

<b>11</b>	<b>Toxicological Information</b>
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**-- ACUTE EXPOSURE --**

<b>Eye Irritation</b>	Weak to moderate eye irritant. Does not meet Canadian D2B or EU R36 criteria. Based on data from similar materials.
<b>Skin Irritation</b>	May cause slight skin irritation. Does not meet EU R38 criteria. Based on data from 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.
<b>Respiratory Irritation</b>	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.
<b>Dermal Toxicity</b>	The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials.
<b>Inhalation Toxicity</b>	No data available to indicate product or components may be a toxic inhalation hazard.
<b>Oral Toxicity</b>	The LD50 in rats is > 10,000 mg/Kg. Based on data from components or similar materials. Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain. Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in pulmonary edema and chemical pneumonitis.
<b>Dermal Sensitization</b>	No data available to indicate product or components may be a skin sensitizer.
<b>Inhalation Sensitization</b>	No data available to indicate product or components may be respiratory sensitizers.
<b>Aspiration Hazard</b>	Not determined.

**-- CHRONIC EXPOSURE --**

<b>Chronic Toxicity</b>	No data available to indicate product or components present at greater than 1% are chronic health hazards.
<b>Carcinogenicity</b>	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.
<b>Mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Reproductive Toxicity</b>	No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.
<b>Teratogenicity</b>	No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

**-- ADDITIONAL INFORMATION --**

<b>Other</b>	No other health hazards known.
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12	<b>Ecological Information</b>
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**-- ENVIRONMENTAL TOXICITY --**

<b>Freshwater Fish Toxicity</b>	Not determined.
<b>Freshwater Invertebrates Toxicity</b>	Chronic effects expected at 10 - 100 mg/L based on component data.
<b>Algal Inhibition</b>	The acute EC50 is 10 - 100 mg/L based on component data.
<b>Saltwater Fish Toxicity</b>	Not determined.
<b>Saltwater Invertebrates Toxicity</b>	Not determined.
<b>Bacteria Toxicity</b>	Not determined.
<b>Miscellaneous Toxicity</b>	Not determined.

**-- ENVIRONMENTAL FATE --**

<b>Biodegradation</b>	Adequate data is not available to estimate the biodegradation potential of this material.
<b>Bioaccumulation</b>	10 - 25% of the components potentially bioconcentrate, based on octanol/water coefficients.
<b>Soil Mobility</b>	Not determined.
<b>Notes</b>	None known.

13	<b>Disposal Considerations</b>
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<b>Disposal Considerations</b>	All disposal practices must be in accordance with local, regional, national and international regulations. Do not dispose in landfill.
<b>Contaminated Containers or Packaging</b>	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	<b>Transport Information</b>
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<b>ICAO/IATA I</b>	Not regulated.
<b>ICAO/IATA II</b>	Not regulated.
<b>IMDG</b>	Not regulated.
<b>IMDG EMS Fire</b>	Not applicable.
<b>IMDG EMS Spill</b>	Not applicable.
<b>IMDG MFAG</b>	Not applicable.

**MARPOL Annex II** Not determined.  
**USCG Compatibility** Not determined.  
**DOT NAERG** Not applicable.

*Review classification requirements before shipping materials at elevated temperatures.*

<b>15</b>	<b>Regulatory Information</b>
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**-- 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](http://Lubrizol.com/REACH), or e-mail us at [REACH\\_MSDS\\_INQUIRIES@Lubrizol.com](mailto: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** 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** This product requires notification before sale in Taiwan.

**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 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.

**SARA 311 Classifications**

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

**CERCLA Hazardous Substances** None known.

**-- 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: < 0.1 ppm Naphthalene, CAS no. 91-20-3 < 1 ppm Ethyl acrylate, CAS no. 140-88-5 1 ppm Methyl isobutyl ketone, CAS no. 108-10-1 4 ppm Cumene, CAS no. 98-82-8 4 ppm Ethyl benzene, CAS no. 100-41-4

**-- 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.

<b>16</b>	<b>Other Information</b>
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**Issuing Department** Product Safety and Compliance Department (440-943-1200)  
**Created Date** 28 August 2012

**Preparation/Revision Date**

07 January 2014

**US NFPA Codes**

Health	Fire	Reactivity	Special
1	1	0	N/E

**HMIS Codes**

Health	Fire	Reactivity
1	1	0

**Revision Indicators**

This MSDS has no revisions since 7 January 2014

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