FZ1507AX



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	FZ1507AX											
CAS Number	Not applicable for mixtures.											
Synonyms	None.											
Generic Chemical Name	Mixture.											
Recommended Use	Multipurpose.											
Restrictions on use	Not determined.											
Created Date25 January 2012Preparation/Revision Date09 September 2013Transportation Emergency PhoneFOR TRANSPORT EMERGENCY call CHEMTREC: (+1) 703-527-3887 (outside the U.S.), 1-800-424-9300 (in												
						No.	$\frac{1}{2} \frac{1}{1} \frac{1}$					
						MSDS No.	13664559-2402529-1011331-102103					
2	Hazards Identification											
Appearance	Slightly hazy amber liquid.											
Odor	Mild											
Classification	Not determined.											
Target Organs	Not determined.											
Signal Word	Not determined.											
Hazard statement	Not determined.											
Other Hazards	None identified.											
Storage Procedures	Protect from sunlight. Store away from oxidizers.											
	See Section 11 for complete health hazard information.											

# 3

Composition/Information on Ingredients

### Hazardous Ingredients

Comp	CAS No.	Percentage (by wt.)	Carcinogen		
Zinc alkyldithiophosphate	84605-29-8	From 0.5 to 1.5 percent	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. If eye irritation persists, get medical attention.
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. If irritation persists or if toxic symptoms are observed, get medical attention.
Ingestion	DO NOT INDUCE VOMITING. Get immediate medical attention.
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.
5	Fire Fighting Measures

FZ1507AX	
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 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
Unyous Fine & Fundation Hoganda	into drains, soil or surface water.
Unusual Fire & Explosion Hazards	Elevated temperatures can lead to the formation of irritating fumes and vapors. Container may rupture in a fire situation. DO NOT USE a solid stream of water. Burning may produce irritating, toxic and obnoxious fumes. See section 10 for additional
	information.
6	Accidental Release Measures
Personal precaution, protective	Only trained personnel should be permitted in area. Personal protective equipment must be worn. Avoid contact with skin,
equipment and emergency	eyes or clothing. Ventilate area if spilled in a confined space or other poorly ventilated area. Material on floor may be
procedures	slippery.
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	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.
7	Handling and Storage
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Pumping Temperature	Ambient
Maximum Handling Temperature	70 °C, 158 °F
Handling Procedures	Use with adequate ventilation. Keep containers closed when not in use. When handling, do not eat, drink, or smoke. Avoid
	breathing vapor. Avoid contact with eyes, skin and clothing. Ground and bond containers when transferring material. Wash
	thoroughly after handling. 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 separately from oxidizers. Store in a well-ventilated place. Keep cool. 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. Do not store in direct sunlight. Store separately from incompatible materials. Keep container tightly closed. 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.
	not appleable.
	Ireland
	Not applicable.
	India
	Not applicable.
	Cyprus Not applicable.
	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.
Parsonal Protoctive Feminment	
Personal Protective Equipment	
	Use half mask respirator with an organic vapor cartridge if exposure limit is exceeded. Use self-contained breathing
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.
<b>Respiratory Protection</b>	apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.

	be inspected before each use and discarded if they show tears, pinholes, or signs of wear.						
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. Do not eat, drink or smoke when using this product.						

9	Physical and Chemical Properties
<b>E</b> 1 <b>D</b> 1 <i>i</i>	
Flash Point	220 °C, 428 °F COC (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	0.86 (15.6 °C)
Bulk Density	7.19 Lb/gal, 0.86 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	Slightly hazy amber liquid.
Viscosity	195 Centistokes (25 °C)
	95 Centipoise (40 °C)
	14.5 Centistokes (100 °C)
Boiling Point	Not determined.
Boiling Point Range	Not determined.
Pour Point Temperature	-39 °C, -38 °F
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	Strong acids. 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. 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.
Dermal Toxicity	The LD50 in rabbits is > 2000 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 or vapors.

FZ1507AX **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. No data available to indicate product or components may be a skin sensitizer. **Dermal Sensitization** Inhalation Sensitization No 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. No data available to indicate either product or components present at greater than 0.1% that may cause reproductive **Reproductive Toxicity** 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	Not determined.
Freshwater Invertebrates Toxicity	Chronic effects expected at 10 - 100 mg/L based on component data.
Algal Inhibition	Not determined.
Saltwater Fish Toxicity	Not determined.
Saltwater Invertebrates Toxicity	Not determined.
Bacteria 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	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	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
ІСАО/ІАТА І	Not regulated.
ΙΟΑΟ/ΙΑΤΑ ΙΙ	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.

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

15	Regulatory Information
15	Regulatory mormation

## FZ1507AX

Global Chemical Inventories									
USA	All components of this mate	erial are	on the U	S TSCA Invent	ory or a	re exempt.			
Other TSCA Reg.	None known.								
EU	To obtain information on the REACH_MSDS_INQUIRI				this prod	luct, please visit Lu	brizol.com/REACH, or e-mail us at		
Japan	All components are in compliance with the Chemical Substances Control Law of Japan.								
Australia	All components are in comp	All components are in compliance with chemical notification requirements in Australia.							
New Zealand	This product requires notific	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 notific	cation be	efore sale	in Switzerland.					
Korea	All components are in comp	oliance in	n Korea.						
Philippines	All components are in comp 1990 (R.A. 6969).	pliance v	with the P	hilippines Tox	ic Substa	ances and Hazardou	us and Nuclear Wastes Control Act	of	
China	This product requires notific	ation in	China.						
Taiwan	This product requires notific	cation be	efore sale	in Taiwan.					
Miscellaneous Regulatory Information	Not determined.								
SARA Ext. Haz. Subst.				Regulations		botonoo on the SAE	A Extramaly Hazardous Substana	00	
SARA Ext. Haz. Subst.	list.	in greau	ei ulali 1.		mear su	Ustance on the SAF	RA Extremely Hazardous Substance	28	
SARA Section 313	From 0.5 to 1.5 percent zine	c compo	ounds; co	ntains 0.1% as	Zn.				
SARA 311 Classifications	Acute Hazard		No						
	Chronic Hazard		No						
	Fire Hazard		No						
CEDCI A Hannahara Sash dan ara	Reactivity Hazard		No						
CERCLA Hazardous Substances	None known.								
		Sta	te Regul	ations					
Cal. Prop. 65	This product contains the for maximum impurity levels of	ollowing	chemica	l(s) known to th	ne state c	of California to cau	se cancer and/or birth defects based	l on	
		Produ	uct Regis	strations					
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								
		Othe	er / Interi	national					
Miscellaneous Regulatory	Not determined.								
Information	Not determined.								
16								_	
16	Other Information								
I	Due hast Cafeta and Camal	D.		(440.042.120					
Issuing Department Created Date	Product Safety and Compli	ance De	epartmen	l (440-945-120	0)				
	25 January 2012								
Preparation/Revision Date US NFPA Codes							1		
US INFLA Coues	HealthFin11		1	Reactivity 0	_	Special N/E	-		
				0		11/12	1		
HMIS Codes	Health	F	ìire		Reacti	vity	]		
	0		1		0				
<b>Revision Indicators</b>	This MSDS has no revision	is since	9 Septem	ber 2013	_				
As the conditions or methods of use are beyond	ond our control, we do not assun	ne any re	sponsibilit	y and expressly a	lisclaim a	any liability for any u	use of this product. Information contain	ned	

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressiv disclam any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local regulations remains the responsibility of the user.