



Prepared according to Annex II of EC Regulation 1907/2006.

1	Substance/Product Identification
Product Trade Name	EMKARATE RL 32-3MAF
Company	<i>CPI Engineering Services 2300 James Savage Rd. Midland, MI 48642 Phone: 989-496-3780 Fax: 989-496-0316</i>
E-mail contact	EUSDS@lubrizol.com
CAS Number	Not applicable for mixtures.
Synonyms	None.
Preparation/Revision Date	01 February 2010
Generic Chemical Name	Mixture.
Product Type	Multipurpose.
Emergency Phone Number	FOR TRANSPORT EMERGENCY call CHEMTREC: (+1) 703-527-3887 (outside the U.S.), 1-800-424-9300 (in the U.S.)
MSDS No.	59578118-1402512-3030011-102103
2	Hazards Identification
Symbol(s)	Not applicable.
Product Classification	Not applicable.
3	Composition/Information on Ingredients
Hazardous Ingredients	
This material contains no ingredients requiring disclosure under regulatory hazard criteria for this jurisdiction. See Section 11 for additional details.	
4	First Aid Measures
Ingestion	DO NOT INDUCE VOMITING. Get immediate medical attention.
Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.
Skin	Wash with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before reuse.
Inhalation	Remove exposed person to fresh air if adverse effects are observed.
Additional Information	Note to physician: Treat symptomatically.
5	Fire Fighting Measures
Flash Point	240 °C, 464 °F COC (Typical)
Extinguishing Media	CO ₂ , dry chemical, foam, water spray, water fog.
Firefighting Procedures	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 use a water jet. Use water to cool containers exposed to fire.
Unusual Fire & Explosion Hazards	Keep material away from heat, sparks, pilot lights, static electricity and open flame.
6	Accidental Release Measures
Spill Procedures	Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.
7	Handling and Storage
Pumping Temperature	Not determined.
Maximum Handling Temperature	Not determined.
Handling Procedures	Keep away from potential sources of ignition. Keep containers closed when not in use. Avoid skin contact. Wash thoroughly after handling. Empty container contains product residue which may exhibit hazards of product.
Maximum Storage Temperature	Not determined.

EMKARATE RL 32-3MAF

Storage Procedures Do not store near potential sources of ignition. Store in a cool, dry, well-ventilated area. Keep container tightly closed. Keep only in original container.

Loading Temperature Not determined.

8	Exposure Controls/Personal Protection
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Exposure Limits

EU
Not applicable.

UK
Not applicable.

Ireland
Not applicable.

India
Not applicable.

Cyprus
Not applicable.

Other Exposure Limits Contains synthetic base stock. Under conditions which may generate mists, observe the suggested PEL of 5 mg/m³ and STEL of 10 mg/m³.

Engineering Controls Use with adequate ventilation.

Hand Protection Neoprene.

Eye Protection Safety Glasses.

Respiratory Protection Use 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.

Clothing Recommendation Long sleeve shirt is recommended. Wear a chemically protective apron when contact with material may occur. Launder contaminated clothing before reuse.

9	Physical and Chemical Properties
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Flash Point 240 °C, 464 °F COC (Typical)

Upper Flammable Limit Not determined.

Lower Flammable Limit Not determined.

Autoignition Point Not determined.

Explosion Data Material does not have explosive properties.

Vapour Pressure Not determined.

pH Not determined.

Specific Gravity 0.98 (20 °C)

Bulk Density Not determined.

Water Solubility Slightly soluble.

Percent Solid Not determined.

Percent Volatile Not determined.

Volatile Organic Compound Not determined.

Vapour Density Not determined.

Evaporation Rate Not determined.

Odour Mild

Appearance Clear to yellow liquid.

Viscosity 31.2 Centistokes (40 °C)

5.6 Centistokes (100 °C)

Odour Threshold Not determined.

Boiling Point Not determined.

Pour Point Temperature -56 °C, -69 °F

Melting / Freezing Point Not determined.

The above data are typical values and do not constitute a specification.

10	Stability and Reactivity
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Stability Material is normally stable at moderately elevated temperatures and pressures.

Decomposition Temperature Not determined.

Incompatibility Strong acids. Strong bases. Oxidizing agents.

Polymerization Will not occur.

EMKARATE RL 32-3MAF

Thermal Decomposition

Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.

11	Toxicological Information
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-- 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.
Skin Irritation	May cause slight skin irritation. Does not meet Canadian D2B or EU R38 criteria. Based on data from components or similar materials. Prolonged or repeated contact may cause dermatitis.
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	No data available to indicate product or components may be a toxic inhalation hazard.
Oral Toxicity	The LD50 in rats is > 5000 mg/Kg. Based on data from components or similar materials. Ingestion of this material may cause gastrointestinal irritation.
Dermal Sensitization	No data available to indicate product or components may be a skin sensitizer.
Inhalation Sensitization	No data available to indicate product or components may be respiratory sensitizers.

-- CHRONIC EXPOSURE --

Chronic Toxicity	No data available to indicate product or components present at greater than 1% are chronic health hazards.
Carcinogenicity	No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.
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.
Other	No other health hazards known.

12	Ecological Information
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-- ENVIRONMENTAL TOXICITY --

Freshwater Fish Toxicity	Not determined.
Freshwater Invertebrates Toxicity	Not determined.
Algae Toxicity	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 measured octanol/water partition coefficients.
Soil Mobility	Not determined.
WGK	WGK = 2 according to the Water Hazardous Directive, VwVwS, dated May 17, 1999.

13	Disposal Considerations
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Waste Disposal	This material, if discarded, should not be considered a European hazardous waste.
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14	Transport Information
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ICAO/IATA II	Not regulated
IMDG	Not regulated
IMDG EMS Fire	Not applicable.
IMDG EMS Spill	Not applicable.
IMDG MFA G	Not applicable.
MARPOL Annex II	Not determined.
USCG Compatibility	Not determined.
ADR/RID	Not regulated
ADR/RID Hazard ID No.	Not applicable.
South Africa	Not regulated

Review classification requirements before shipping materials at elevated temperatures.

15	Regulatory Information
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Symbol(s)	Not applicable.
Indication of Danger	Not applicable.
Precautionary Labels	Not applicable.
Other Label Information	None.

-- Global Chemical Inventories --

USA	All components of this material are on the US TSCA Inventory or are exempt.
EU	All components are in compliance with the EC Seventh amendment Directive 92 /32/EEC.
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.
Canada	This material contains a component that has been notified to Environmental Canada and is eligible for addition to the Domestic Substances List (DSL).
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.

-- Product Registrations --

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.
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16	Other Information
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HMIS Codes	Health	Fire	Reactivity
	0	1	0

Relevant R Phrases Not applicable.

Revision Indicators	Section	Changed
	15 Canada.	20 January 2010
	15 EU EINECS.	20 January 2010
	15 Japan meti.	1 February 2010
	15 Korea.	1 February 2010

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