



1	Chemical Product and Company Identification
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CPI Engineering Services
 2300 James Savage Rd.
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 Phone: 989-496-3780
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Product Trade Name	EMKARATE RL 32-3MAF
CAS Number	Not applicable for mixtures.
Synonyms	None.
Generic Chemical Name	Confidential.
Product Type	Multipurpose.
Preparation/Revision Date	12 September 2011
UN Number	Not applicable.
Dangerous Goods Class and Subsidiary Risk	Not applicable.
HAZCHEM Code	Not regulated
24 Hour Transportation Emergency Phone No.	IN CASE OF TRANSPORT EMERGENCY, CALL (02) 9741 5213 IN AUSTRALIA, OR CHEMTREC INTERNATIONAL (+1) (703-527-3887). COLLECT CALLS ACCEPTED
Statement of Hazardous Nature	Not classified as hazardous according to criteria of the National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)].
Poisonous Schedule Number	None Allocated
MSDS No.	71113150-4012719-4029141-102103

2	Hazards Identification
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Principal Hazards

- This material has no known health hazards.

See Section 11 for complete health hazard information.

3	Composition/Information on Ingredients
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Hazardous Ingredients

This material has no known hazards under applicable laws.

4	First Aid Measures
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Oral	DO NOT INDUCE VOMITING. Get immediate medical attention.
Eyes	Flush with water at least 30 minutes. Get medical attention if eye irritation develops or persists.
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
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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. See section 10 for additional information.

6	Accidental Release Measures
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Spill Procedures Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Ventilate area if

EMKARATE RL 32-3MAF

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
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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. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty container contains product residue which may exhibit hazards of product. Dispose of packaging or containers in accordance with local, regional, national and international regulations.
Maximum Storage Temperature	Not determined.
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. See section 10 for incompatible materials.
Loading Temperature	Not determined.

8	Exposure Controls/Personal Protection
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Exposure Limits	<p>Australia Not applicable.</p> <p>New Zealand Not applicable.</p>
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.
Odor	Mild
Appearance	Clear to yellow liquid.
Viscosity	31.2 Centistokes (40 °C) 5.6 Centistokes (100 °C)
Odor 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.
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Decomposition Temperature	Not determined.
Incompatibility	Strong acids. Strong bases. Oxidizing agents.
Polymerization	Will not occur.
Thermal Decomposition	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.

11	Toxicological Information
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-- ACUTE EXPOSURE --

Oral Toxicity	The LD50 in rats is > 2000 mg/Kg. Based on data from components or similar materials.
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 contact may cause dermatitis.
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.
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 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.

-- ADDITIONAL INFORMATION --

Other	No other health hazards known.
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12	Ecological Information
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-- 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 --

Biodegradation	Adequate data is not available to estimate the biodegradation potential of this material.
Bioaccumulation	Less than 1.0% of the components potentially bioconcentrate, based on octanol/water coefficients.
Soil Mobility	Not determined.

13	Disposal Considerations
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Waste Disposal	Waste management should be in compliance with the Waste Disposal Act and local laws. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.
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14	Transport Information
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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.
ADG	Not regulated
ADG HAZCHEM	Not regulated

Review classification requirements before shipping materials at elevated temperatures.

15	Regulatory Information
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Signal Word Not applicable.

Labelling Information Not applicable.

-- 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	May require notification before sale under Australian regulations.
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.
China	All components of this product are listed on the Inventory of Existing Chemical Substances in China.
Philippines	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).
Taiwan	May require notification before sale in Taiwan.

-- 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.

16	Other Information
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US NFPA Codes	Health	Fire	Reactivity	Special
	1	1	0	N/E

HMS Codes	Health	Fire	Reactivity
	1	1	0

Precautionary Labels

- This material has no known health hazards.

Revision Indicators This MSDS has no revisions since 12 September 2011

Contact Point Lubrizol Australia, Robert Holmes (Laboratory Services Supervisor), Phone No. (61) (02) 9741 5200

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