

EMKARATE[®] RL 22H

Date Revised: Feb, 2008

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

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Use Lubricant

2. COMPOSITION/INFORMATION ON INGREDIENTS

Product description Polyol ester

Hazardous Ingredients

Chemical name	EINECS Number	%	Symbol R-Phrases
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Contains no Hazardous Ingredients (2001/58/EC)

3. HAZARDS IDENTIFICATION

This health hazard assessment is based on information available on the components of the formulation and tests on the product.

Eye contact	Unlikely to cause eye irritation in man.
Skin contact	May cause skin irritation.
Inhalation	This material may cause irritation following inhalation.

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Ingestion May cause irritation of the gastrointestinal tract. Low oral toxicity, but ingestion may cause irritation of the gastrointestinal tract.

4 FIRST AID MEASURES

Eye contact Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain medical attention.

Skin contact Remove contaminated clothing. Wash skin with soap and water. If symptoms develop, obtain medical attention.

Inhalation Remove patient from exposure. Obtain medical attention if ill effects occur.

Ingestion Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Obtain medical attention if ill effects occur.

Further Medical Treatment Symptomatic treatment and supportive therapy as indicated.

5 FIRE-FIGHTING MEASURES

Extinguishing Media Water fog, alcohol foam, carbon dioxide, dry chemical.

Unsuitable Extinguishing Media None known

Special fire-fighting protective equipment A self contained breathing apparatus and suitable protective clothing must be worn in fire conditions.

Fire and explosion hazards Combustible but not readily ignited.

Explosion data

Sensitivity to mechanical impact: No data.

Sensitivity to static discharge: No data.

6.ACCIDENTAL RELEASE MEASURES

Personal precautions Refer to section 8 for proper personal protective equipment

Environmental precautions Do not allow to enter drains, sewers or watercourses.

Methods for cleaning up Contain spillages with sand, earth or any suitable adsorbent material.
Transfer to a container for disposal. Wash the spillage area clean with water and detergent.

Other information Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

7. HANDLING AND STORAGE

Handling Prevent skin contact. Avoid breathing this material. Provide adequate ventilation. Do not swallow.

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Storage

Store in original containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

Chemical name	Exposure limit values	Notes
No Workplace Exposure Limit Assigned.		
Engineering measures		Provide adequate ventilation.
Eye protection		Safety glasses with side shields.
Skin protection		Good working practice suggests gloves should be worn.
Respiratory protection		Respiratory protection is not required if good ventilation is maintained
Other		Eyewash and safety shower easily accessible to the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Values are not product specifications.

Colour	Pale yellow
Form	Liquid
Odour	Mild
pH	No data.
Boiling point/boiling range (°C)	>250
Flash Point (°C)	210 (closed cup)
Autoignition Temperature (°C)	390
Flammable Limits	No data.
Explosive Properties	Not applicable.
Oxidising Properties	No data.
Vapour Pressure (mmHg)	<0.1
Vapour Density	No data.
Solubility in water	Insoluble
Solubility in other ingredients	No data.
Partition Coefficient	No data.
Kinematic viscosity (mm²/s)	18.9 @ 40°C
Kinematic viscosity (mm²/s)	4.2 @ 100°C
Density (g/ml)	0.9938 @ 20°C
Pour Point (°C)	-52

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Materials to avoid	Strong oxidising agents.

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Conditions to avoid	None known
Hazardous decomposition products	None known
Hazardous polymerisation	Will not occur

11. TOXICOLOGICAL INFORMATION

Skin contact	Repeated or prolonged skin contact may result in mild irritation.
Carcinogenicity	Short term tests and a consideration of the structure have shown that it is unlikely to be a carcinogenic hazard to man.

12. ECOLOGICAL INFORMATION

Mobility	The product is essentially insoluble in water.
Persistence and degradability	(OECD 301B) (28 days) 75.7 %The product is substantially biodegradable in water.
Ecotoxicity	Expected to be of low toxicity to aquatic life.
Effect on Effluent Treatment	The product is substantially removed in biological treatment processes.

13. DISPOSAL CONSIDERATIONS

Methods of Disposal	Disposal should be in accordance with local, state or national legislation.
Contaminated packaging	Empty container retains product residue. Observe all hazard precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue from container before disposal.

14. TRANSPORT INFORMATION

Not classified in RID/ADR - ADNR - IMDG - ICAO/IATA-DGR.

15. REGULATORY INFORMATION

Not Classified as Dangerous for Supply/Use.

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Inventory Status

EU (EINECS/ELINCS/NLP)	Compliant.
USA (TSCA)	Compliant.
Canada (DSL)	Compliant.
Australia (AICS)	Compliant.
Japan (ENCS)	Compliant.
China (IECSC)	Compliant.
Korea (ECL)	Compliant.
Philippines (PICCS)	Compliant.

16. OTHER INFORMATION

This data sheet was prepared in accordance with Directive (EC) 1907/2006

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