

Emkarate[®] RL 220H Plus

Date Revised: Mar, 2008

SAFETY DATA SHEET

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

Address/Telephone number	Lubrizol CPI Engineering Services, Inc Belasis Business Centre Billingham, Cleveland England TS23 4EA
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Emergency telephone number	Europe – NCEC: +44 (0)208-762-8322 USA – Chemtrec: 800-424-9300 All Others – Chemtrec: +1-703-527-3887
Use	Lubricant

2. HAZARDS IDENTIFICATION

This material is/contains a new substance under Council Directive 92/32/EEC. This health hazard assessment is based on a consideration of the composition of this product.

Eye contact	May cause eye irritation in man.
Skin contact	May cause skin irritation. Unlikely to be hazardous by skin absorption.
Inhalation	This material may cause irritation following inhalation.
Ingestion	May cause irritation of the gastrointestinal tract.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product description	Synthetic Lubricant
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Hazardous Ingredients

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

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. Obtain medical attention. Contaminated clothing should be laundered before re-issue.
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.
Other information	Wash the spillage area clean with water and detergent. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

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7. HANDLING AND STORAGE

Handling	Prevent skin contact. Prevent eye contact. Avoid breathing this material. Provide adequate ventilation.
Storage	Do not swallow. 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	Good working practice suggests goggles should be worn.	
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)	Estimated >300
Flash Point (°C)	250 (open cup)
Autoignition Temperature (°C)	Estimated >400
Flammable Limits	No data.
Explosive Properties	No data.
Oxidising Properties	No data.
Vapour Pressure (hPa)	<0.1 @ 20°C
Solubility in water	Insoluble
Solubility in other ingredients	No data.
Partition Coefficient	Estimated > 6.2 Log POW
Kinematic viscosity (mm²/s)	220 @40°C
Kinematic viscosity (mm²/s)	19 @ 100°C
Density (g/ml)	>1.0 @ 20 °C
Pour Point (°C)	-27

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10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Materials to avoid	Strong oxidising agents.
Conditions to avoid	None known.
Hazardous decomposition products	None known.
Hazardous polymerisation	Will not occur.

11. TOXICOLOGICAL INFORMATION

The following information is based on a consideration of the properties of the main component of this mixture.

Eye contact	Slight irritant to rabbit eyes.
Skin contact	Slight/mild irritant following a single application to rabbit skin. Unlikely to cause skin sensitisation.
Dermal toxicity	Low toxicity LD50 rat >2000 mg/kg
Ingestion	Low acute toxicity. LD50 rat >2000 mg/kg
Long Term Exposure	Chronic ingestion studies in animals have shown that repeated doses produce no significant effects.
Reproductive toxicity/ teratogenicity	There is no evidence of clastogenic potential.
Mutagenicity	There is no evidence of mutagenic potential.

12. ECOLOGICAL INFORMATION

The following information is based on a consideration of the properties of the main component of this mixture.

Mobility	The product is essentially insoluble in water.
Persistence and degradability	Biodegradability (OECD 301B) 14%
Ecotoxicity	The substance showed no toxicity to fish or invertebrates at the solubility limit. Unlikely to inhibit the aerobic and anaerobic treatment of sewage sludge by waste water bacteria. LC50 (96 hour) rainbow trout > 100mg/l No observed effect concentration (96 hour) rainbow trout 100mg/l EC50 (48 hour) Daphnia magna > 100mg/l No observed effect concentration(48 hour) Daphnia magna 100mg/l EC50 (72 hours) Scenedesmus subspicatus > 100mg/l

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Ecotoxicity (cont.)

NOEC Scenedesmus subspicatus 100mg/l
IC50 (3hr) bacteria > 1000mg/l
NOEC bacteria 1000mg/l

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.

This material is/contains a new substance under Council Directive 92/32/EEC.

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Inventory Status

EU (EINECS/ELINCS/NLP)

Compliant. Notified but import conditions apply. Refer to supplier.

USA (TSCA)

Compliant.

Japan (ENCS)

Compliant.

Japan (ISHL)

Compliant.

China (IECSC)

Compliant.

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16. OTHER INFORMATION

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

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