

EMKARATE[®] RL 10H

Date Revised: Feb, 2008

SAFETY DATA SHEET

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

Address/Telephone number Lubrizol
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Use Lubricant

2. COMPOSITION/INFORMATION ON INGREDIENTS

Product description Polyol ester

Hazardous Ingredients

| Chemical name | EINECS Number | % | Symbol R-Phrases |
|----------------------|----------------------|----------|-------------------------|
|----------------------|----------------------|----------|-------------------------|

Contains no Hazardous Ingredients (2001/58/EC)

3. HAZARDS IDENTIFICATION

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

| | |
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| 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. Do not swallow. |
| Storage | Store in original containers. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

| Chemical name | Exposure limit values | Notes |
|---------------|-----------------------|-------|
|---------------|-----------------------|-------|

No Workplace Exposure Limit Assigned.

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| Engineering measures | Provide adequate ventilation. |
| Eye protection | Safety glasses with side shields. |

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| Skin protection | Good working practice suggests gloves should be worn. Respiratory protection is not required if good ventilation is maintained. Eyewash and safety shower easily accessible to the work area. |
| Respiratory protection | |
| Other | |

9. PHYSICAL AND CHEMICAL PROPERTIES

Values are not product specifications.

| | |
|---|-----------------------------|
| Colour | Straw |
| Form | Liquid |
| Odour | No data. |
| pH | No data. |
| Boiling point/boiling range (°C) | >250 |
| Flash Point (°C) | 206 (open cup) |
| Autoignition Temperature (°C) | No data. |
| Flammable Limits | No data. |
| Explosive Properties | Not applicable. |
| Oxidising Properties | No data. |
| Vapour Pressure (mmHg) | <5 |
| Vapour Density | No data. |
| Specific Gravity | approx 0.95 |
| Solubility in water | Insoluble |
| Solubility in other ingredients | No data. |
| Partition Coefficient | No data. |
| Kinematic viscosity (mm²/s) | 9.93 @ 40°C 2.68 @ 100°C |
| Density (g/ml) | 0.946 @ 20 °C |

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

This health hazard assessment is based on a consideration of the composition of this product.

| | |
|---------------------|--|
| Eye contact | Unlikely to cause eye irritation in man. |
| Skin contact | Practically non-irritant following a single application to rabbit skin. Unlikely to cause skin sensitisation. |
| Inhalation | This material may cause irritation following inhalation. |

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| Ingestion | Low oral toxicity. |
| Long Term Exposure | There is evidence that tricresyl phosphate has produced depressed cholinesterase levels in animals |
| Mutagenicity | There is no evidence of clastogenic potential. |

12. ECOLOGICAL INFORMATION

This environmental hazard assessment is based on information available on the components of the formulation.

| | |
|--------------------------------------|---|
| Mobility | The substance is essentially insoluble in water. |
| Persistence and degradability | The substance 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

| | |
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| 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.

| | |
|-------------------------------|------------|
| WGK | 1 |
| Inventory Status | |
| EU (EINECS/ELINCS/NLP) | Compliant. |
| USA (TSCA) | Compliant. |
| Japan (ENCS) | Compliant. |
| China (IECSC) | Compliant. |
| Korea (ECL) | Compliant. |
| Philippines (PICCS) | Compliant. |

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16. OTHER INFORMATION

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

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