

MATERIAL SAFETY DATA SHEET

THE HALLSTAR COMPANY

Section 1 - Identification of Substance and Company

Product Name: HALLGREEN® R-4010

Product Code: 0085

Chemical Name: Ester

Supplier: The HallStar Company ⁽¹⁾
120 S. Riverside Plaza Suite 1620
Chicago, IL 60606 PH: (877) 427-4255
USA

HMIS
Health: 1
Flammability: 0
Reactivity: 0
Gloves & Safety Glasses

Emergency Phone Numbers: The HallStar Company: (708) 594 - 5999
CHEMTREC: (800) 424 - 9300

Section 2 - Information on Ingredients

Chemical Name

Ester

Section 3 - Hazard Identification

Appearance/Odor: Clear, Slightly Yellow Liquid, Mild Sweet Odor

Potential Health Effects

Skin Contact: Repeated or prolonged skin contact may cause drying of the skin.

Eye Contact: May cause slight eye irritation of susceptible persons.

Ingestion: Substance may be harmful if swallowed in large quantities.

Inhalation: Effects unknown.

Section 4 - First Aid Measures

Skin Contact: Wash affected skin with soap and water. Seek medical attention if symptoms persist.

Eye Contact: Flush eyes with large amounts of water for at least 15 minutes. If irritation persists, consult a physician.

Ingestion: Seek medical advice.

Inhalation: Person should be moved to a fresh air environment.

Section 5 - Explosion and Fire-Fighting Measures

Extinguishing Media: CO₂, Dry Chemical, Water Fog

Special Fire-Fighting Procedures: A MSHA/NIOSH approved self-contained breathing apparatus should be worn.

Unusual Fire and Explosion Hazards: None

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Section 6 - Accidental Release/Spill Procedures

Steps to be Taken in Case Material is Released or Spilled: Dike and contain the spill with inert material (i.e., sand, earth, sawdust) and transfer liquid and solid diking material to separate containers for recovery or disposal. Wash floor area with hot water solution. Remove contaminated clothing and wash before reuse. Wash affected skin areas with soap and water. Keep spills out of all sewers and bodies of water.

Section 7 - Handling and Storage

Any use of this product in an elevated temperature process, should be evaluated to establish and maintain safe operating procedures.

Keep from contact with oxidizing materials. Containers should be kept tightly closed and stored in a dry well-ventilated place

Section 8 - Personal Protection

Hand Protection: Impervious gloves

Respiratory Protection: None required for normal operation.

Eye Protection: Safety glasses

Engineering Measures: For normal operation, local exhaust ventilation should suffice. Direct exhaust when material becomes heated and fumes are given off.

Other: Eyewash facility in vicinity.

Section 9 - Physical and Chemical Properties

| | | | |
|------------------------------------|--|-----------------------------|-----------|
| Boiling Point (@ 760 mmHg): | N/A | Specific Gravity: | 0.9893 |
| Flash Point (COC): | >200°F | Evaporation Rate: | N/A |
| Vapor Density (Air=1): | N/A | Solubility in Water: | Insoluble |
| Vapor Pressure (20°C): | N/A | pH: | 6.5 |
| Appearance and Odor: | Clear, Slightly yellow liquid, mild sweet odor | | |

Section 10 - Stability and Reactivity

Stability: This product is stable under normal conditions.

Conditions to Avoid: Strong oxidizing agents.

Hazardous Polymerization: Will not occur under normal circumstances.

Section 11 - Toxicological Information

Based on data provided for similarly structured materials, the acute oral and dermal LD₅₀ is expected to be greater than 2000 mg/kg.

Section 12 - Ecological Information

This product does not contain any ozone depleting compounds (ODC's).

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Section 13 - Disposal Considerations

Waste Disposal Methods: Material should be disposed of in accordance to current local and national regulations. Contacting a waste disposal service is recommended.

Section 14 - Transport Information

Not classified as hazardous according to the Department of Transportation.

Section 15 - Regulatory Information

Toxic Substances Control Act (TSCA): This product is listed on the TSCA inventory of the United States.

Superfund Amendments and Reauthorization Act (SARA): This product has the following hazards as defined in Section 311/312 of 40 CFR Part 372:

Hazards

None

This product contains the following chemicals subject to the reporting requirements of Section 313 or Title III of SARA and 40 CFR Part 372:

Ingredients

None

California Proposition 65: This product contains the following substances known to the State of California to cause cancer, birth defects, or other reproductive harm per the Safe Drinking Water and Toxic Enforcement Act of 1986:

Ingredients

None

Section 16 - Other Information

Prepared By: DCU

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Supersedes: 06/07

All information is presented in good faith using available information. The HallStar Company makes no representation of the accuracy or completeness of the information. The user should consider this information as a supplement to other information that may be available. User should also determine suitability of information in their situation to determine proper use and disposal, protection of persons and the environment.

⁽¹⁾ Affiliated companies include RTD*HallStar Company, HallStar Solutions Corp., Ester Solutions Company, Memphis Solutions Company and Marine Magnesium & Minerals Company.