SILVER FERN CHEMICAL

Material Safety Data Sheet

TRIS-2-HYDROXYETHYL ISOCYANURATE (THEIC)

SECTION 1: IDENTIFICATION

Product Name: Tris-2-Hydroxyethyl Isocyanurate (THEIC)

CAS Number: 839-90-7

Chemical Name: Tris-(2-Hydroxyethyl) Isocyanurate

Synonyms: THEIC

Company
Silver Fern Chemical, Inc.
2226 Queen Anne Avenue North
Suite #C
Seattle WA 98109, USA

Business Contact
Customer Service: 206-282-3376
info@silverfernchemical.com

SECTION 2: HAZARD IDENTIFICATION

Eye contact: Not irritant

Skin contact: Not irritant; this product will not be absorbed through human skin

Inhalation: No data

Effect of overexposure: No data

Toxicology: Oral LD50 (mouse) >20g/kg

Acute effects of exposure: No data

Long term effects of exposure: No data

Medical conditions aggravated by exposure: No data

Known synergists: No data

Explosion & fire hazards:
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Flash point: 227°C (Cleveland open tester)
Auto-ignition temperature: n/a

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: TRIS-2-HYDROXYETHYL ISOCYANURATE 100%

SECTION 4: FIRST AID MEASURES

Inhalation: Seek fresh air. Contact Poison Control Center. Contact physician.

Skin contact: Wash with copious amounts of water. Contact physician if irritation persists.

Eye contact: Immediately flush with copious amounts of water for 15 minutes. Contact Poison Control Center. Contact physician.

Ingestion: Drink water. Don’t induce vomiting. Contact Poison Control Center. Contact physician.

SECTION 5: FIRE FIGHTING MEASURES

Recommended extinguishing media: Use carbon dioxide, dry chemicals, foam or water.

Extinguishing media to avoid: n/a

Personal protecting equipment: Self contained breathing apparatus with full face piece and protective clothing.

Hazardous combustion products: CO₂, CO, NOₓ, HNCO may be liberated.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Small spills: Wash with large amounts of water.

Large spills: Should be collected for proper disposal by incineration.

Personal protection: Use impervious gloves, dust mask and chemical goggles.

SECTION 7: HANDLING AND STORAGE
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Store in closed containers, in a cool, dry, well-ventilated area.
Keep away from sunlight, heat and flame.
Recommended packing materials: HDPE BAGS

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Personal safety measures:** Self contained breathing apparatus in concentrated atmosphere

**Special protection measures:**

- **Ventilation:** Local ventilation is advisable
- **Respiratory protection:** OSHA-NIOSH approved respirator in concentrated atmosphere
- **Hand protection:** Protective gloves may be used
- **Eye protection:** Chemical goggles
- **Skin protection:** Long sleeves recommended
- **Other recommended equipment:** Safety shower and eyewash station in work area

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** White crystalline powder
- **Melting point range:** 131 - 136 C
- **PH(aqueous):** 7 – 7.5
- **Hydroxyl content, %:** 19 - 20
- **Acid value:** 1.0 max
- **Flash point:** 227°C (Cleveland open tester)

SECTION 10: STABILITY AND REACTIVITY

- **Stability:** Stable under 130°C
- **Conditions to avoid:** Mixture with strong acids, alkalines and oxidants
- **Materials to avoid:** High levels of alkali at elevated temperatures
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Hazardous decomposition products: Ethyleneimine; burning can produce carbon monoxide
Hazardous polymerization: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Oral LD50 (mouse) >20g/kg

SECTION 12: ECOLOGICAL INFORMATION

Biodegradability: This material is biodegradable.
CODMn: 0.42 g/g

SECTION 13: DISPOSAL CONSIDERATIONS

Observe all state, local and federal regulations. This material may have to be incinerated or burned in a chemical dump. Dissolved material may have to be treated biologically. Do not discharge even waste-treated or diluted material into any waterway or sewer system without consent of local pollution control authorities.

SECTION 14: TRANSPORT INFORMATION

Not regulated.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

SECTION 15: REGULATORY INFORMATION

n/a

SECTION 16: OTHER INFORMATION

Date Created: 7/08/2002
Date Last Updated: 7/08/2009
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