

GELEST, INC.

11 East Steel Rd. Morrisville. PA 19067 Phone (215) 547-1015

MATERIAL SAFETY DATA SHEET

EMERGENCY TELEPHONE CHEMTREC: 1-800-424-9300

NAME: IRON II TRIS(1,10-PHENANTHROLINE)HEXAFLUOROPHOSPHATE - AKI-411 CHEMICAL NAME: IRON II TRIS(1,10-PHENANTHROLINE)HEXAFLUOROPHOSPHATE

SYNONYMS: FERROUS (1.10-PHENANTHROLINE)HEXAFLUOROPHOSPHATE

CHEMICAL FAMILY: IRON COMPOUND

FORMULA: C₃₆H₂₄Fe.F₁₂P₂

HMIS CODES HEALTH: 3 FLAMMABILITY: 1 **REACTIVITY: 0**

INGREDIENTS

% **TLV IDENTITY** CAS NO.

IRON II TRIS(1,10-PHENANTHROLINE)HEXAFLUOROPHOSPHATE 17112-07-1 >95 not established

(TLV 1mg/m³ as Fe)

PHYSICAL DATA

Boiling Point: NA Melting Point: NA

Specific Gravity: >1 Vapor Pressure, 20°C: < 0.1mm Vapor Density: NA Solubility in water: insoluble % volatiles NA Evaporation rate: NA

Other: NA Molecular Weight: 888.41 Appearance & Color: Red-brown crystals, odorless

FIRE & EXPLOSION DATA

Flash Point, COC: not determined Autoignition Temp.: not determined

Flammability Limits: not determined

Extinguishing Media: Water spray, foam, carbon dioxide, dry chemical.

Special Fire Fighting Procedures: Avoid eye and skin contact. Do not breathe fumes or inhale

vapors.

Unusual Fire and Explosion Hazards: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

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Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose, LC: Lethal Concentration; H: hour; occurrence of the concentration of the c



ENVIRONMENTAL INFORMATION

Spill response: Sweep material and transfer to a suitable container for disposal.

Recommended Disposal: Dispose of as solid waste. Follow all chemical pollution control regulations.

HEALTH HAZARD DATA

Eye Contact: Will cause immediate or delayed severe eye irritation.

Skin contact: May produce mild irritation or contact dermatitis. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of dust or particulates may irritate the respiratory tract.

Oral Toxicity: not determined Chronic Toxicity: not determined

SUGGESTED FIRST AID

EYES: In case of contact, immediately flush eyes with flowing water for at least 15 minutes. Get medical attention.

SKIN: Flush with water, then wash with soap and water.

INHALATION: Move exposed individual to fresh air. Administer oxygen if needed. Call a physician.

INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions. Get medical attention.

REACTIVITY DATA

Stability: Stable

Conditions to avoid: Strong oxidizing agents

Hazardous decomposition products: Organic acid vapors and iron oxide fumes.

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SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV, NIOSH approved dust and mist respirator.

Eye and Face Protection: Chemical worker's goggles. Do not wear contact lenses.

Other Clothing and Equipment: Rubber, neoprene or nitrile gloves. An eyewash and emergency

shower should be available. Launder clothing before reuse.

OTHER PRECAUTIONS

For research use only.

Storage and Handling: Store in sealed containers.

TRANSPORTATION

DOT SHIPPING NAME: CHEMICALS, NOI

DOT HAZARD CLASS: None required

DOT LABEL: None required DOT ID No: None required

Prepared by safety and environmental affairs ISSUE DATE AKI-411: 9/30/03

SUPERSEDES: none

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