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: C_{36}H_{24}Fe.F_{12}P_{2}
HMIS CODES HEALTH: 3  FLAMMABILITY: 1  REACTIVITY: 0

INGREDIENTS

<table>
<thead>
<tr>
<th>IDENTITY</th>
<th>CAS NO.</th>
<th>%</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRON II TRIS(1,10-PHENANTHROLINE)HEXAFLUOROPHOSPHATE</td>
<td>17112-07-1</td>
<td>&gt;95</td>
<td>not established</td>
</tr>
</tbody>
</table>

(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
Molecular Weight: 888.41  Other: NA
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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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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