



LABORATORY CHEMICALS AND CONSUMABLES

MATERIAL SAFETY DATA SHEET

POTASSIUM FERRICYANIDE TRIHYDRATE

1. Chemical Product and Company information

Product name: Potassium Ferricyanide Trihydrate

Contact Information:

Radchem cc
PO Box 166982
Brackendowns
Alberton 1454
Telephone : **011 867 3726 / 2864**

2. Hazard Identification

Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

3. Composition / information on ingredients

CAS #: 14459-95-1

Synonym:

Chemical Name: Not available

Chemical Formula: $K_4Fe(CN)_6 \cdot 3H_2O$

4. First Aid Measures

Eye Contact: Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.

Skin Contact: After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.

Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation: Not available



Ingestion: Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available

5. Fire-fighting measures

Flammability of the Product: Non-flammable.

Fire Hazards in Presence of Various Substances: Not applicable

Explosion Hazards in Presence of Various Substances: Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Not applicable

Special Remarks on Fire Hazards: Not available

Special Remarks on Explosion Hazards: Not available

6. Accidental release measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container.

7. Handling and storage

Precautions: Do not ingest. Do not breathe dust. Wear suitable protective clothing In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes

Storage: No specific storage is required. Use shelves or cabinets sturdy enough to bear the weight of the chemicals. Be sure that it is not necessary to strain to reach materials, and that shelves are not overloaded.

8. Exposure controls/personal protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

9. Physical and chemical properties

Physical state and appearance: Solid

Odour: Not available

Taste: Not available

Odour Threshold: Not available

Ionicity (in Water): Not available.

Dispersion Properties: Not available



<p>Colour: Not available</p> <p>Boiling Point: Not available</p> <p>Melting Point: Decomposes (60°C)</p> <p>Critical Temperature: Not available</p> <p>Specific Gravity: Not available</p> <p>Vapour Density: Not available</p> <p>Volatility: Not available</p>	<p>Solubility: Not available</p>
<p><u>10. Stability and reactivity</u></p> <p>Stability: The product is stable.</p> <p>Instability Temperature: Not available.</p> <p>Conditions of Instability: Not available</p> <p>Incompatibility with various substances: Not available</p> <p>Corrosivity: Non-corrosive in presence of glass.</p> <p>Special Remarks on Reactivity: Not available</p> <p>Special Remarks on Corrosivity: Not available</p> <p>Polymerization: Will not occur.</p>	
<p><u>11. Toxicological information</u></p> <p>Routes of Entry: Eye contact. Inhalation. Ingestion</p> <p>Toxicity to Animals: Acute oral toxicity (LD50): 5000 mg/kg [Mouse].</p> <p>Chronic Effects on Humans: The substance is toxic to lungs, mucous membranes.</p> <p>Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).</p> <p>Special Remarks on Toxicity to Animals: Not available</p> <p>Special Remarks on Chronic Effects on Humans: Not available</p> <p>Special Remarks on other Toxic Effects on Humans: Not available</p>	
<p><u>12. Ecological information</u></p> <p>Ecotoxicity: Not available</p> <p>BOD5 and COD: Not available</p> <p>Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.</p>	

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available

13. Disposal considerations

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport information

DOT Classification: CLASS 9: Miscellaneous hazardous material

Identification: : Environmentally hazardous substances, solid, N.O.S.(Potassium Ferricyanide) UNNA: 3077
PG: III

Special Provisions for Transport: Marine Pollutant

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