

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 631.00

Revision Date: November 25, 2002

Section 1 — Chemical Product and Company Identification

Potassium Ferrocyanide

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Section 2 — Composition, Information on Ingredients

Potassium Ferrocyanide, trihydrate

Synonym: potassium hexacyanoferrate (II), yellow prussiate of potash

CAS#: 14459-95-1

Section 3 — Hazards Identification

Lemon-yellow crystals or powder. Odorless.

Slightly toxic by ingestion, mild body tissue irritant.

When heated to decomposition or on contact with acids it emits very toxic fumes of HCN.

FLINN AT-A-GLANCE

Health-1

Flammability-0

Reactivity-2

Exposure-1

Storage-1

0 is low hazard, 3 is high hazard

Section 4 — First Aid Measures

Call a physician, seek medical attention for further treatment, observation and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.

Eye: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Give large quantities of water. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Non-flammable solid.

When heated to decomposition, or on contact with acids it emits very toxic fumes of HCN.

Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive mode.

NFPA CODE

None Established

Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

Section 7 — Handling and Storage

Flinn Suggested Chemical Storage Pattern: Inorganic #7. Store with arsenates, cyanides and cyanates.

Store in a cool dry place; material effloresces on exposure to air.

Keep tightly closed and store in a Flinn Chem-Saf bag.

Section 8 — Exposure Controls, Personal Protection

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron.

Section 9 — Physical and Chemical Properties

Lemon-yellow crystals or powder. Odorless.
Solubility: Soluble in water; insoluble in alcohol.
Formula: $K_4Fe(CN)_6 \cdot 3H_2O$
Formula Weight: 422.41

Specific Gravity: 1.853

Section 10 — Stability and Reactivity

Effloresces on exposure to air. Avoid strongly heating. If heated or in contact with concentrated acids, substance emits poisonous HCN gas. Avoid contact with strong acids, strong oxidizers, nitrate and nitrite salts, ammonia or sodium chromate.
Shelf life: Fair to poor; effloresces on exposure to air.

Section 11 — Toxicological Information

Acute effects: N.A.
Chronic effects: N.A.
Target organs: N.A.

ORL-RAT LD50: 3613 mg/kg
IHL-RAT LC50: N.A.
SKN-RBT LD50: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

Section 12 — Ecological Information

Data not yet available.

Section 13 — Disposal Considerations

Please consult with state and local regulations.
Flinn Suggested Disposal Method #14 is one option.

Section 14 — Transport Information

Shipping Name: Not regulated
Hazard Class: N/A
UN Number: N/A

N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (237-722-2).

Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

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*Reduce Science Accidents--
Use Flinn Chemicals*

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