

Potassium Ferricyanide Safety Data Sheet (SDS)

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Potassium Ferricyanide

Signal Word
WARNING

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

Chemtrec Emergency Phone Number: (800) 424-10154

Pictograms

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink or smoke when using this product (P270).



SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

| Component Name | CAS Number | Formula | Formula Weight | Concentration |
|---|------------|------------------------------------|----------------|---------------|
| Potassium ferricyanide | 13746-66-2 | K ₃ Fe(CN) ₆ | 329.26 | |
| Synonyms: Red prussiate of potash; Potassium hexacyanoferrate | | | | |

SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

If on skin: Wash with plenty of water.

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell (P302+P301+P312).

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid.

When heated to decomposition, may emit toxic fumes.

In case of fire: Use a tri-class dry chemical fire extinguisher.

NFPA Code

None established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

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.
Light sensitive. Store in a cool dry place away from light.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling (P264).

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|------------------------------------|
| Orange/lemon yellow crystals. Odorless. | Melting point: 300 °C (decomposes) |
| Soluble: Water. Slightly in alcohol. | Specific gravity: 1.85 |

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong acids, strong oxidizers, sodium nitrite, ammonia, chromium trioxide, cupric nitrate.
Reaction with strong acids may liberate toxic HCN fumes.
Shelf life: Fair, light sensitive. See Section 7 for further information.

SECTION 11 — TOXICOLOGICAL INFORMATION

| | |
|-----------------------|---------------------------------------|
| Acute effects: N.A. | ORL-RAT LD ₅₀ : 1600 mg/kg |
| Chronic effects: N.A. | IHL-RAT LC ₅₀ : N.A. |
| Target organs: N.A. | SKN-RBT LD ₅₀ : N.A. |

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.
Flinn Suggested Disposal Method #14 is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (237-323-3).

SECTION 16 — OTHER INFORMATION

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

N/A = Not applicable

Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

