

MATERIAL SAFETY DATA SHEET

Product: **Potassium Ferricyanide**

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: Potassium Ferricyanide, Granular, Technical

Product Code: CH-13746662A

Chemical Formula: $K_3Fe(Cn)_6$

General or Generic ID: Potassium hexacyanoferrate (III)

Company

ArtChemicals.com

2250 Davis Street

San Leandro, CA 94577-2204

510-639-4670

Emergency Telephone Number

1-800-451-8346

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>CAS No.</u>	<u>Chemical Identity</u>	<u>Common Name</u>	<u>%</u>
13746-66-2	N/A	Potassium Ferricyanide	100

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye:

Hazardous in case of eye contact (irritant). Symptoms include stinging, tearing, redness and impairment of vision. The degree of injury will depend on the amount of material that gets into the eye and the speed and thoroughness of the first aid treatment.

Skin:

Hazardous in case of skin contact (irritant/permeator). The degree of injury will depend on the amount of material that gets on the skin and the speed and thoroughness of the first aid treatment.

Ingestion:

Hazardous in case of ingestion.

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Inhalation:

Hazardous in case of inhalation. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing.

Symptoms of Exposure:

Not available.

Development Information:

Not available.

Repeated or prolonged exposure is not known to aggravate medical condition.

Cancer Information:

Not available.

Primary Route(s) of Entry:

Inhalation, skin and eyes.

4. FIRST AID MEASURES

Inhalation:

If affected, promptly remove individual to fresh air. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention if symptoms persist.

Ingestion:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Call physician immediately.

Eyes:

Remove contact lenses if worn. In case of contact, immediately flush with water for at least 15 minutes. Cold water may be used. Do not use eye ointment. Get medical attention if irritation occurs.

Skin:

Immediately remove contaminated clothing and thoroughly flush skin with plenty of water (15 minutes). Wash thoroughly with disinfectant soap and water. Cold water may be used. Cover the irritated skin with an emollient. Launder clothing before reuse. Get medical attention.

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Note to Physicians:

Not available.

5. FIRE FIGHTING MEASURES

Flash Point: Non-flammable. Not applicable.

Explosive Limit: Not applicable.

Auto-ignition Temperature: Not applicable.

Hazardous Products of Combustion: Not applicable.

Extinguishing Media: Not available.

SPECIAL FIRE-FIGHTING PROCEDURES: Not available.

NFPA CODES: Health = 2 Flammability = 0 Reactivity = 0

6. PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled:

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. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

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7. PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Light sensitive. Store in light-resistant containers. Keep container tightly closed. Keep container in a cool, well-ventilated area.

Keep locked up. 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. Keep away from incompatibles such as acids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Be sure to use an approved/certified respirator or equivalent.

Skin Protection:

Wear resistant gloves. To prevent repeated or prolonged skin contact, wear impervious clothing and boots or lab coat.

Eye Protection:

Chemical splash goggles in compliance with OSHA regulations are advised. Face shield. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Other Protective Clothing or Equipment:

Provide sufficient mechanical ventilation to maintain exposure below level of overexposure. Boots. Full suit. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling product.

No exposure limits available.

Consult local authorities for acceptable exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Red crystalline solid. (Odor not available.)

Molecular Weight: 329.25 g/mole

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pH: Not applicable.

Boiling Point: Not available.

Melting Point: Decomposes.

Specific Gravity: 1.85 (Water=1)

Vapor Pressure: Not available.

Evaporation Rate: Not available.

Solubility in Water: Soluble in cold water.

10. STABILITY AND REACTIVITY

Incompatibility: Reactive with acids, heat and light.

Stability: Stable.

Hazardous Decomposition: N/A

Hazardous Polymerization: Will not occur.

Special Remarks on Reactivity: Incompatible with ammonia, chromium trioxide + heat, sodium nitrite + heat, acids, and acid fumes. Sensitive to light. When heated to decomposition or comes in contact with acid or acid fumes, it emits toxic fumes of cyanides. It emits toxic fumes of cyanides, and oxides of nitrogen when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (LD50): 2970 mg/kg [Mouse].

Acute Potential Health Effects:

Skin: May cause skin irritation.

Eyes: May cause eye irritation.

Inhalation: May cause respiratory tract irritation with coughing and shortness of breath.

Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea, and possible abdominal cramping.

Chronic Potential Health:

Inhalation: Prolonged or repeated inhalation may affect blood and urinary system.

The toxicological properties of this substance have not been fully investigated.

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12. ECOLOGICAL INFORMATION

Not available.

Possibly hazardous short-term degradation products are not likely. However, long-term degradation products may arise. The products of degradation are not toxic.

13. DISPOSAL CONSIDERATION

Waste Disposal Method:

Dispose of in accordance with all applicable local, state and federal regulations.

14. DOT SHIPPING NAME & IDENTIFICATION:

Environmentally hazardous substances, solid, n.o.s. (Potassium Ferricyanide). Class 9.
UNNA: 3077, PG: III

Marina Pollutant

15. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that information is current, applicable, and suitable to their circumstances.