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MATERIAL SAFETY DATA SHEET (MSDS)

POTASSIUM FERRICYANIDE AR [POTASIUM HEXA CYANOFERRATE (III)]

1. Product Identification

Synonyms: Potassium hexacyanoferrate (II), trihydrate; Tetrapotassium ferrocyanide, trihydrate; Ferrate (4-), hexacyano, tetrapotassium, trihydrate CAS No.: 13746-66-2 (Anhydrous); 14459-95-1 (Trihydrate)

Product Coad: P0166505000

Molecular Weight: 422.39 Chemical Formula: K4Fe(CN)6 3H2O

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Potassium Ferrocyanide	13943-58-3	98 - 100%

3. Hazards Identification

Emergency Overview CAUTION! MAY BE HARMFUL IF INHALED. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. Potential Health Effects Information on the human health effects from exposure to this substance is limited. The sodium and potassium salts are apparently benign. They are not decomposed to cyanide in the body. **Inhalation:** May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath. **Ingestion:** Large doses may cause gastrointestinal upset with nausea, vomiting, diarrhea, and possible cramping. **Skin Contact:** May cause irritation with redness and pain.

Eye Contact: May cause irritation, redness and pain.

4. First Aid Measures

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion: Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice. **Skin Contact:** Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops. **Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

5. Fire Fighting Measures

Fire: Not considered to be a fire hazard. Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire. **Special Information:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. May emit toxic and flammable fumes of cyanide if involved in a fire.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits: None established. Ventilation System: In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered. Personal Respirators (NIOSH Approved): For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection: Wear protective gloves and clean body-covering clothing. Eye Protection: Safety glasses. Maintain eye wash fountain and quickdrench facilities in work area.



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9. Physical and Chemical Properties

Appearance: Yellow crystalline granules. Odor: Odorless. Solubility: Soluble in water. Density: 1.85 pH: No information found. % Volatiles by volume @ 21C (70F): 0 Melting Point: 60 - 100C (140 - 212F) Loses water

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage. Hazardous Decomposition Products: Emits toxic fumes of cyanide and oxides of nitrogen when heated to decomposition. Hazardous Polymerization: Will not occur. Incompatibilities: Metal chlorates, perchlorates, nitrates, or nitrites may cause violent explosions. May liberate toxic cyanide fumes when mixed with strong acids.

Conditions to Avoid: Incompatibles.

11. Toxicological Information

Anhydrous: Oral rat LD50: 6400 mg/kg. Investigated as a mutagen, reproductive effector.

---NTP Carcinogen--Ingredient Known Anticipated IARC Category
-----Potassium Ferrocyanide (13943-58-3) No No None
<u>12. Ecological Information</u>

Environmental Fate: No information found. Environmental Toxicity: No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

NON HAZARDOUS FOR AIR, ROAD AND SEA TRANSPORT

15. Regulatory Information

SARA Title III: N/A Federal Regulatory: N/A



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16. Other Information

NFPA Ratings: Health: 3 Flammability: 0 Reactivity: 0

Label Hazard Warning: CAUTION! MAY BE HARMFUL IF INHALED. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. Label Precautions: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing dust. Keep container closed. Use with adequate ventilation. Label First Aid: If inhaled, remove to fresh air. Get medical attention for any breathing difficulty. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists. Product Use: Laboratory Reagent.

In accordance with REACH Regulation (CE) Nº 1907/2006 and with CLP Regulation (CE) Nº 1272/2008

DISCLAIMER:

- SUVCHEM Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- SUVCHEM shall not be responsible for any damage resulting from handling or from contact with the above product.
- SUVCHEM provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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