

M S D S***Material Safety Data Sheet***

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Potassium Ferrocyanide

SECTION 1 PRODUCT IDENTIFICATION

NAME: Potassium Ferrocyanide
EKI ORDER NUMBERS: 7181, 7182
SYNONYMS: Potassium Hexacyanoferrate (II), Yellow Prussiate of Potash
CAS NO: 13943-58-3
FORMULA: $K_4Fe(CN)_6 \cdot 3H_2O$
REVISION DATE: 3 May 2004

SECTION 2 HAZARDOUS INGREDIENTS / EXPOSURE LIMITS

COMPONENT	CAS NO	OSHA PEL	ACGIH TLV
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Potassium Ferrocyanide	13943-58-3	N/E	N/E

SECTION 3 PHYSICAL / CHEMICAL CHARACTERISTICS

SOLUBILITY IN WATER: slight	BOILING POINT: N/A
VAPOR PRESSURE: N/A	VAPOR DENSITY: N/A
SPECIFIC GRAVITY: 1.85 (20 C)	MELTING POINT: Decomposes
EVAPORATION RATE: N/A	
APPEARANCE AND ODOR: Soft yellow crystals	

SECTION 4 FIRE / EXPLOSION HAZARD DATA

FLASH POINT: Not combustible
FLAMMABLE LIMITS (UPPER AND LOWER): N/A
EXTINGUISHING MEDIA: Water
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus with full facepiece in the pressure-demand or positive-pressure mode.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Carbon dioxide extinguishers can liberate HCN by the action of dissolved CO_2 .

SECTION 5 REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: Excessive heat, moisture, acids
MATERIALS TO AVOID: Contact with acids liberates extremely toxic and flammable HCN gas. Contact with cupric nitrate or other strong oxidizers may cause violent reaction.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: HCN and nitrogen oxides
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 6 HEALTH HAZARD DATA

ROUTES OF ENTRY: Skin absorption/contact, inhalation

HEALTH HAZARDS (ACUTE AND CHRONIC): Acute effects; eye and skin irritation, nausea, and vomiting. Chronic effects; dermatitis and skin ulcers.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Diseases of kidneys, heart, lungs, and the CNS.

CARCINOGENICITY: Not listed as a carcinogen by NTP, IARC, or OSHA.

****FIRST AID PROCEDURES****

EYES: Immediately flush eyes, including under the eyelids, for 15 minutes.

SKIN: Wash affected area with soap and water. Remove contaminated clothing.

INHALATION: Remove to fresh air; restore/support breathing as needed.

INGESTION: Call a poison control center.

GET MEDICAL HELP FOR ALL EXPOSURES. Seek prompt medical assistance for further treatment, observation, and support after first aid.

SECTION 7 PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED: Scoop up spilled material into suitable container for disposal. Cleanup personnel need protection against contact and inhalation. Avoid the addition of any acid to the spill or leak area.

WASTE DISPOSAL METHOD: Consider reclamation, recycling, or destruction rather than disposal in landfill. Follow state, federal, and local regulations.

OTHER PRECAUTIONS: N/A

SECTION 8 CONTROL MEASURES

VENTILATION: General and local exhaust; fume hood preferred.

RESPIRATORY PROTECTION: NIOSH approved respirator.

EYE PROTECTION: Goggles or safety glasses.

GLOVES: Chemical resistant.

OTHER PROTECTIVE CLOTHING: Lab coat, apron, or as needed to prevent contact.

WORK HYGIENE PRACTICES: Good laboratory practices/hygiene.

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