



# Material Safety Data Sheet



HMIS	
Health Hazard	2
Fire Hazard	0
Reactivity	0

PPE (See Section 15)



## Section 1. Chemical Product and Company Identification

Trade Name	<b>Metal Analysis Test 3</b>	Code	RE/MA3
Manufacturer	<b>HazTech Systems, Inc. P.O. Box 627 164 Dinsmore Fortuna, CA 95540</b>	CAS #	14459-95-1
Commercial Name	Potassium ferrocyanide trihydrate	RTECS	LJ8225000
Synonyms	MA-3	TSCA	TSCA 8(b) inventory: Potassium ferrocyanide trihydrate
		CI #	

In case of emergency contact CHEMTREC (24 hours) at 800-424-9300

HazTech Systems, Inc. 800-337-2497

Spectrum Chemical Mfg. Corp. 310-516-8000

Chemical Formula **K<sub>4</sub>Fe(CN)<sub>6</sub>·3H<sub>2</sub>O**

Supplier **Spectrum Chemical Mfg. Corp.  
14422 S. San Pedro St.  
Gardena, CA 90248**

## Section 2. Composition and Information on Ingredients

Name	CAS #	Exposure Limits			% by Weight
		TWA (mg/m <sup>3</sup> )	STEL	CEIL (mg/m <sup>3</sup> )	
Potassium ferrocyanide trihydrate	14459-95-1				100%

Toxicological Data on Ingredients Potassium ferrocyanide trihydrate:  
ORAL (LD50): Acute: 6400 mg/kg (Rat). 5000 mg/kg (Mouse).

## Section 3. Hazards Identification

Potential Acute Health Effects Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

Potential Chronic Health Effects CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage.

**Section 4. First Aid Measures**

Eye Contact	Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.
Skin Contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Ingestion	Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

**Section 5. Fire and Explosion Data**

Flammability	Non-flammable.
Auto-Ignition Temperature	Not applicable.
Flash Point	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not applicable.
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	Not applicable.
Special Remarks on Fire Hazards	Not applicable.

**Section 6. Accidental Release Measures**

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.
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**Section 7. Handling and Storage**

Precautions	If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes
Storage	Keep in HazCat Kit.

**Section 8. Exposure Controls/Personal Protection**

Engineering Controls	Use in a well ventilated area.
Personal Protection	Gloves and goggles.

## Section 9. Physical and Chemical Properties

Physical State and Appearance	Solid	Volatility	Not available
Molecular Weight	422.39 g/mole	Odor Threshold	Not available
pH (1% Solution in Water)	Not available	Water/Oil Dist. Coeff.	Not available
Boiling Point	Not available	Ionicity (in Water)	Not available
Melting Point	Decomposes. (60°C or 140°F)	Dispersion Properties	Not available
Critical Temperature	Not available	Solubility	Water
Specific Gravity	Not available	Odor	May be perfumed
Vapor Pressure	Not available	Taste	Not available
Vapor Density	Not available	Color	Variable

## Section 10. Stability and Reactivity Data

Stability	Product is stable.	Corrosivity	Non-corrosive in presence of glass.
Instability Temperature	Not available.	Special Remarks on Corrosivity	Not available.
Conditions of Instability	Not available.	Polymerization	Will not polymerize.
Incompatibility with Various Substances	Not available.		

## Section 11. Toxicological Information

Route of Entry	Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Not available.
Chronic Effects on Humans	Not available.
Other Toxic Effects on Humans	Not available.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on Other Toxic Effects on Humans	Not available.

## Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The products of degradation are more toxic.
Special Remarks on the Products of Biodegradation	Not available.

**Section 13. Disposal Considerations**

Waste Disposal Recycle to process, if possible. Consult your local or regional authorities.

**Section 14. Transport Information**

DOT Classification CLASS 9: Miscellaneous hazardous material.

Identification : Environmentally hazardous substance, solid, n.o.s. (Potassium ferrocyanide) : UN3077 PG: III

Special Provisions Marine Pollutant  
for Transport

**Section 15. Other Regulatory Information and Pictograms**

Federal and State Regulations TSCA 8(b) inventory: Potassium ferrocyanide trihydrate

California Proposition 65 Warnings

Other Regulation OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other classifications WHMIS (Canada) CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC) R36/38- Irritating to eyes and skin.

**Section 16. Other Information**

Catalog Number(s) RE/MA3

References Not available.

Other Special Considerations Not available.

Validated by R. Houghton 8/06/01

Verified by R. Turkington

Call 1-800-543-5487

**Notice to Reader**

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Haztech Systems, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.