



## Section 1: Identification

**GHS Product Identifier:** Potassium Ferricyanide (KFe)

**Classification:** Additive

**Product Use:** Industrial Use Only

**Supplier**

Avanti International  
1100 Hercules Ave., Suite 320  
Houston, TX 77058  
Phone: 800.877.2570  
Fax: 281.486.7300

**24 HR. EMERGENCY TELEPHONE NUMBER**

Chemtrec: 800.424.9300

## Section 2: Hazards Identification

**GHS Classification**

Not classified for physical or health hazards under GHS.

**GHS Label Elements**

Hazard pictograms: N/A

<b>Signal Word:</b>	None
<b>Hazards Statements:</b>	None
<b>Precautionary Statements:</b>	<b>General:</b>
	Contact may cause eye irritation.
	Prolonged or repeated exposure may cause skin irritation.
	Not an inhalation hazard as supplied.

**Hazards not otherwise classified**

Contact with acids liberates very toxic gas.

## Section 3: Composition/Information on Ingredients

Weight %	Components	CAS-No.	Classification
>99%	Potassium Ferricyanide	13746-66-2	None

The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret.

## Section 4: First-Aid Measures

**Description of First-Aid Measures**

**If on skin:**

Remove contaminated clothing and footwear. Wash with soap and water. Get medical attention if irritation develops or persists.

**If in eyes:**

Immediately flush eyes with plenty of water for 15 minutes or until discomfort eases. Get medical attention if irritation persists.

**If swallowed:**

Get immediate medical attention (call 911). Rinse mouth with water. Do not induce vomiting unless instructed to do so by poison center or physician. Give patient water or milk unless unconscious or convulsing. Keep patient warm and comfortable. Treat for shock.

### Signs and Symptoms of Overexposure

EYES: Slight to moderate irritation including stinging, burning, temporary blurring of vision

SKIN: Prolonged or repeated contact may produce irritation, redness, edema, burning or itching, rash, etc.

INGESTION: No data

INHALATION: Not a likely route of exposure.

## Section 5: Fire-Fighting Measures

**Suitable Extinguishing Media:** Not applicable - not combustible.

**Fire-fighting Procedure** Wear self-contained breathing apparatus when fighting chemical fires.

**Flammable Class** N/A

## Section 6: Accidental Release Measures

### Small Spills

Wear recommended PPE. Collect spilled product for reuse or disposal. Rinse spill area with water.

### Large Spills

Wear appropriate PPE. Remove uninvolved personnel. Sweep or scoop up spilled material and store in sealable intact containers for reuse or disposal. Rinse spill area with water.

## Section 7: Handling and Storage

### Precautions for Safe Handling

Avoid contact with eyes and prolonged contact with skin. Read and understand product label and SDS before handling any chemical. Always wear recommended personal protective equipment. Follow label cautions and instructions.

### Conditions for Safe Storage (Including Any Incompatibilities)

Store in original containers in well ventilated area away from strong acids or oxidizing materials. Keep containers tightly closed when not in use.

## Section 8: Exposure Controls/Personal Protection

### Components with Occupational Exposure Limits

Potassium Ferricyanide

ACGIH TLV

TWA value 1 mg/m<sup>3</sup>

**Engineering Controls:** Maintain sufficient ventilation in storage and use areas to prevent the accumulation of dusts or product vapors, spray, or mists. Provide local exhaust for enclosed areas.



### Personal Protective Equipment

**Eye and Face:** Avoid eye contact. Wear safety glasses or goggles

**Skin:** Avoid prolonged or repeated contact. Wear rubber, latex, or other chemical resistant gloves.

**Work Hygienic Practices:** Wash thoroughly before eating, drinking, smoking, or using the facilities after handling any chemical product.

**Other Use Precautions:** Working eyewash stations and safety showers should be located in or near all areas where chemicals are stored or used.

## Section 9: Physical and Chemical Properties

**ODOR:** None

**APPEARANCE:** Orange-red crystals or powder

**pH:** 5.0 to 7.0

**Notes:** (5% in water)

**VAPOR PRESSURE:** Not Applicable

**VAPOR DENSITY:** Not Applicable

**BOILING POINT:** Not Applicable

**FREEZING POINT:** Not Applicable

**THERMAL DECOMPOSITION:** > 392°F (200°C)

**SOLUBILITY IN WATER:** Partially soluble in water

## Section 10: Stability and Reactivity

### Reactivity

Reacts with acids to form very toxic gasses.

### Hazardous Polymerization

Will not occur.

### Possibility of Hazardous Reactions

Reacts with acids and releases hydrogen cyanide, a very toxic gas.

### Incompatible materials

Concentrated acids, oxidizing agents, concentrated ammonia.

## Section 11: Toxicological Information

### ACUTE TOXICITY

**DERMAL LD50:** No data

**ORAL LD50:** 2,970 mg/kg (mouse)

**INHALATION LC50:** No data

## Section 12: Ecological Information

### AQUATIC TOXICITY (ACUTE)

**96-HOUR LC50:** 869 mg/l (Oncorhynchus mykiss)

**48-HOUR EC50:** 549 mg/l (daphnia)

## Section 13: Disposal Considerations

**DISPOSAL METHOD:** Offer surplus and non-recyclable material to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**FOR LARGE SPILLS:** See Section 6

**EMPTY CONTAINER:** Triple rinse container thoroughly with water and recycle.

## Section 14: Transport Information

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** NOT REGULATED

## Section 15: Regulatory Information

### UNITED STATES

#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Acute health hazard (eye and skin irritation)

FIRE: No PRESSURE GENERATING: No REACTIVITY: No ACUTE: Yes CHRONIC: No

CALIFORNIA PROPOSITION 65: Contains a substance known to the State of California to cause cancer, birth defects, or reproductive harm.

CARCINOGEN: Tripotassium hexacyanoferrate, CAS # 13746-66-2

Physical Hazard: 0

Personal Protection: X

#### HMIS Rating

Health – 1

Flammability – 0

Physical Hazard – 0

Personal Protection - X

#### NFPA Codes

Health – 1

Flammability – 0

Reactivity – 0

Special Warnings -

## Section 16: Other Information

**General Statements:** Amounts given herein (other than for regulatory purposes) are typical and do not represent a specification.

Unspecified or unlisted components are proprietary, do not present a hazard at levels present, are not hazardous, and/or are present at levels below reportable limits. Exact percentage values for all components are proprietary in accordance with 29 CFR 1910.1200(i)

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