



## Material Safety Data Sheet Potassium Ferrocyanide, 10% w/v

### Section 1 - Chemical Product and Company Identification

**MSDS Name:**

Potassium Ferrocyanide, 10% w/v

**Catalog Numbers:**

LC19060

**Synonyms:**

None

**Company Identification:**

LabChem Inc  
200 William Pitt Way  
Pittsburgh, PA 15238

**Company Phone Number:**

(412) 826-5230

**Emergency Phone Number:**

(800) 424-9300

**CHEMTREC Phone Number:**

(800) 424-9300

### Section 2 – Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
14459-95-1	Potassium ferrocyanide	10

### Section 3 - Hazards Identification

#### Emergency Overview

**Appearance:** *Clear, yellow solution***Caution.** May cause irritation to eyes, skin, respiratory and gastrointestinal irritation. Light sensitive.**Target Organs:** *None known***Potential Health Effects****Eye:**

May cause mild eye irritation.

**Skin:**

May cause mild skin irritation.

**Ingestion:**

May cause gastrointestinal irritation with nausea, vomiting, and diarrhea.

**Inhalation:**

Low hazard for usual industrial handling.

**Chronic:**

May cause dermatitis and conjunctivitis.



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#### Section 4 - First Aid Measures

**Eyes:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:**

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid. Wash clothing before reuse.

**Ingestion:**

Call a poison control center. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid at once.

**Inhalation:**

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:**

Treat symptomatically and supportively.

#### Section 5 - Fire Fighting Measures

**General Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Combustion generates toxic fumes. Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products.

**Extinguishing Media:**

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

**Autoignition Temperature:**

Not applicable.

**Flash Point:**

Not applicable.

**NFPA Rating:**

CAS# 7732-18-5: Health- 0, Flammability- 0, Instability- 0.

CAS# 14459-95-1: Health- 1, Flammability- 0, Instability- 1.

**Explosion Limits:**

Lower: n/a Upper: n/a

#### Section 6 - Accidental Release Measures

**General Information:**

Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in suitable containers labeled for later disposal.



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### Section 7 - Handling and Storage

**Handling:**

Wash thoroughly after handling. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Store protected from light.

**Storage:**

Do not store in direct sunlight. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from light.

### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations below the permissible exposure limits.

**Exposure Limits:**

Chemical Name:	ACGIH	NIOSH	OSHA
Water	none listed	none listed	none listed
Potassium ferrocyanide	1 mg/m <sup>3</sup> TWA (as Fe) (listed under Iron salts (soluble)).	1 mg/m <sup>3</sup> TWA (as Fe) (listed under Iron salts (soluble)).	5 mg/m <sup>3</sup> TWA (listed under Cyanide anion).

**OSHA Vacated PELs:**

None listed.

**Personal Protective Equipment****Eyes:**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:**

Wear appropriate gloves to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to prevent skin exposure.

**Respirators:**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### Section 9 - Physical and Chemical Properties

<b>Physical State:</b>	Clear liquid
<b>Color:</b>	Yellow
<b>Odor:</b>	Odorless
<b>pH:</b>	Basic
<b>Vapor Pressure:</b>	Not available
<b>Vapor Density:</b>	Not available
<b>Evaporation Rate:</b>	Not available
<b>Viscosity:</b>	Not available



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<b>Boiling Point:</b>	>100°C (>212°F)
<b>Freezing/Melting Point:</b>	<0°C (<32°F)
<b>Decomposition Temperature:</b>	Not available
<b>Solubility in water:</b>	Soluble
<b>Specific Gravity/Density:</b>	Not available
<b>Molecular Formula:</b>	Not available
<b>Molecular Weight:</b>	Not available

### Section 10 - Stability and Reactivity

**Chemical Stability:**

Stable under normal temperatures and pressures.

**Conditions to Avoid:**

Incompatible materials, light.

**Incompatibilities with Other Materials:**

Strong oxidizing agents, strong reducing agents, strong acids, strong bases.

**Hazardous Decomposition Products:**

Hydrogen cyanide, nitrogen oxides, carbon monoxide, carbon dioxide.

**Hazardous Polymerization:**

Has not been reported.

### Section 11 - Toxicological Information

**RTECS:**

CAS# 7732-18-5: ZC0110000.

CAS# 14459-95-1: unlisted.

**LD50/LC50:**

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 14459-95-1:

Oral, rat: LD50 = 1.6 - 3.2 g/kg.

**Carcinogenicity:**

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 14459-95-1: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

**Epidemiology:**

No information found

**Teratogenicity:**

No information found

**Reproductive:**

No information found

**Mutagenicity:**

No information found

**Neurotoxicity:**

No information found



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### Section 12 - Ecological Information

**Environmental:** Potassium ferrocyanide is expected to cause little depletion in aquatic systems. It has a moderate potential to affect the germination of some plants. It has a low potential to affect aquatic organisms and secondary waste treatment microorganisms. This chemical is not likely to bioconcentrate.

### Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

### Section 14 - Transport Information

#### US DOT

**Shipping Name:** Not regulated.

**Hazard Class:**

**UN Number:**

**Packing Group:**

### Section 15 - Regulatory Information

#### US Federal

##### TSCA:

CAS# 7732-18-5 is listed on the TSCA inventory.

CAS# 14459-95-1 is not listed on the TSCA Inventory. It is considered to be listed because its anhydrous form is on the inventory (40CFR270.3(u)(2)).

##### SARA Reportable Quantities (RQ):

None of the chemicals in this product are reportable under SARA.

##### CERCLA/SARA Section 313:

None of the chemicals in this product are reportable under Section 313.

##### OSHA - Highly Hazardous:

None of the chemicals in this product are considered highly hazardous by OSHA.

#### US State

##### State Right to Know:

CAS# 14459-95-1 can be found on the following state right to know lists: California, (listed as Iron salts (soluble)), California, (listed as Cyanides, inorganic salts), New Jersey, (listed as Cyanide anion), New Jersey, (listed as Cyanides, inorganic salts), Pennsylvania, (listed as Iron salts (soluble)), Pennsylvania, (listed as Cyanide anion), Minnesota, (listed as Iron salts (soluble)), Massachusetts, (listed as Cyanide anion).

##### California Regulations:

None.



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### European/International Regulations

#### Canadian DSL/NDSL:

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 14459-95-1 is not listed on Canada's DSL or NDSL Lists.

#### Canada Ingredient Disclosure List:

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 14459-95-1 (listed as Iron salts (soluble)) is listed on the Canadian Ingredient Disclosure List.

### Section 16 - Other Information

MSDS Creation Date: June 3, 1998

Revision Date: September 15, 2009

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