

# Safety Data Sheet

## POTASSIUM FERROCYANIDE

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Potassium Ferrocyanide

**Catalog Numbers:** SO-705

**Company Identification:** ROWLEY BIOCHEMICAL  
10 ELECTRONICS AVENUE  
DANVERS, MA 01923

**For information, call:** 978-739-4883

**Emergency Number:** 800-424-9300

**For CHEMTREC assistance, call:** 800-424-9300

### Section 2 - Hazards Identification

## GHS Classifications

### Health Hazards

H303 **Acute Oral Toxicity:** 5

H313 **Acute Dermal Toxicity:** 5

H316 **Skin Corrosion/ Skin Irritation:** 3

H320 **Eye Damage/ Irritation:** 2B

### Physical Hazards

Not Classified

### Environmental Hazards

**Acute Aquatic Environmental Hazards:** Not Classified

**Chronic Environmental Hazards:** Not Classified

## Pictograms or Hazard Symbols and Hazard Statement



Warning: May be harmful if swallowed.  
May be harmful in contact with skin.  
Causes mild skin irritation.  
Causes eye irritation.

## Precautionary Statement Prevention

H303

**P312** Call a physician if you feel unwell.

H313

**P312** Call a POISON CENTER or doctor/physician if you feel unwell.

H316

**P332 + P313** If skin irritation occurs, get medical advice/attention.

H320

**P264** Wash thoroughly after handling.

**P305+P351+P338 IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P337+P313** If eye irritation persists: Get medical advice/attention.

### Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
14459-95-1	Potassium Ferrocyanide	100

### Section 4 - First Aid Measures

**Eye Exposure:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Dermal Exposure:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes.

**Oral Exposure:** If Swallowing seek immediate medical advice.

**Inhalation Exposure:** If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

## Section 5 - Fire Fighting Measures

**NFPA** HEALTH 2 FLAMMABILITY 0 REACTIVITY 0

Firefighters should wear proper protective clothing and self contained breathing apparatus with full piece operated in positive pressure mode to prevent contact with skin and eyes. Water may be ineffective in fighting fire. Use water spray to keep for exposed containers cool.

**Extinguishing Media:** Use water spray, dry chemical powder, or appropriate foam.

**Flash Point:** N/A

**Auto ignition Temperature:** N/A

**Explosion Limits:** N/A

**Upper:** N/A

## Section 6 - Accidental Release Measures

**Procedure(s) of Personal Precaution(s):**

Wear protective gear.

**Methods for Cleaning up:** Absorb with sand, earth or vermiculite. Carefully sweep up and containerize for proper disposal.

## Section 7 - Handling and Storage

Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. In case insufficient ventilation, wear suitable respiratory equipment. Keep container tightly closed. Keep container in a cool, well-ventilated area.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:**

Mechanical exhaust

**Personal Protective Equipment:**

Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

## Section 9 - Physical and Chemical Properties

**Physical State:** Solid

**Odor:** Odorless

**Molecular Weight:** 422.39 g/mole

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

**Color:** Yellow

**Melting Point:** 60 deg. C

**Specific Gravity:** N/A  
**Boiling Point:** N/A

Section 10 - Stability and Reactivity

**Chemical Stability:** Use care when handling. Avoid contact with skin, eyes and clothing. Store at room temperature.

**Hazardous Decomposition Products:** not known

**Hazardous Polymerization:** Will not occur.

Section 11 - Toxicological Information

**CAS#** 14459-95-1

**LD50/LC50:**

Acute: Rat 5000 mg/kg

**Carcinogenicity:**

CAS# 14459-95-1: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Section 12 - Ecological Information

**Ecotoxicity:**

Not Available

Section 13 - Disposal Considerations

**Appropriate method of disposal of substance or preparation:**

Handled as hazardous waste and sent to an RCRA approved incinerator or disposed in an RCRA approved wasted facility.

Section 14 – Transport Information

**DOT**

Class 9: Miscellaneous hazardous material

Environmentally hazardous substance, solid, n.o.s. (Potassium Ferrocyanide: UN3077 PG:III

Special Provisions for Transport: Marine Pollutant.

## Section 15 - Regulatory Information

### Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

### European/International Regulations

#### European Labeling in Accordance with EC Directives

#### Risk Phrases:

R/21/22 Harmful in contact with skin and if swallowed  
R36/38 Irritating to eyes and skin

#### Safety Phrases:

S3/7/9 Keep container closed in a cool, well-ventilated place  
S24/25 Avoid contact with skin and eyes  
S20/21 When using do not eat, drink or smoke  
S2 Keep out of the reach of children.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S28 After contact with skin, wash immediately with plenty of soap and water  
S37/39 Wear suitable gloves and eye/face protection

## Section 16 - Additional Information

**MSDS Creation Date:** 1/8/2010

**Revision #1** RC 12/2/14 DKG 12/3/14

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