

# SAFETY DATA SHEET

## POTASSIUM FERROCYANIDE, trihydrate

### SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

**BioShop Canada Inc.**  
**5480 Mainway**  
**Burlington, Ontario L7L 6A4**  
**1-800-234-1179**  
**Emergency Telephone No.: 1-905-466-3832**  
**Chemical Name:** Potassium Ferrocyanide, trihydrate  
**Catalog Number:** PFC232

### SECTION 2 HAZARDS IDENTIFICATION

**GHS Classification:**  
Not hazardous according to GHS

**Potential health effects:**  
**Target Organs:** Non known  
**Eyes:** May cause irritation..  
**Skin:** May cause irritation..  
**Inhalation:** May cause irritation to respiratory tract.  
**Ingestion:** may cause irritation to GI tract if swallowed in large amounts. May be harmful if swallowed.  
**CHRONIC HEALTH HAZARDS:** May cause dermatitis with prolonged use.

### SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
<b>Potassium Ferrocyanide :</b>	<b>14459-95-1</b>	98% +

**Molecular Formula:** K<sub>4</sub>Fe(CN)<sub>6</sub>  
**Molecular Weight:** 368.34 (ANHYD)

### SECTION 4 FIRST AID MEASURES

**Eyes:** Immediately flush eyes with water . If irritation persists get medical aid immediately.  
**Skin:** In case of contact, flush area immediately with water. Get medical aid if irritation persists.  
**Inhalation:** Remove victim to fresh air. Get medical aid if irritation, coughing persists.  
**Ingestion:** Wash mouth with water. DO NOT INDUCE VOMITING. Get medical aid if any symptoms appear.

### SECTION 5 FIRE FIGHTING MEASURES

In case of fire always wear self-containing breathing apparatus and full protective gear. Use water spray to cool fire exposed containers.  
Product is non -combustible  
**Flammable:** No  
**Flash Point:** N/A  
**Autoignition Temperature:** N/A  
**Extinguishing Media:** Use water spray, foam, dry chemical . Do not use

carbon dioxide.  
**Explosion Data:** Not available

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container.

### SECTION 7 HANDLING AND STORAGE

**Handling:** Avoid contact. Avoid dust generation. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.  
**Storage Conditions:** Room temperature.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:  
ACGIH, 1mg/m<sup>3</sup> TWA as Fe  
NIOSH, 1mg/m<sup>3</sup>TWA as Fe  
OSHA, 5mg/m<sup>3</sup> TWA under cyanide anion  
Use adequate ventilation. Avoid dust generation..  
Wear appropriate protective equipment to prevent eye and skin exposure.  
Wear appropriate respirator to prevent lung irritation.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** solid  
**Appearance and Odor:** yellow  
**Melting Point:** N/A  
**Boiling Point:** N/A  
**Specific Gravity:** N/A  
**Vapor Density:** N/A  
**Water Solubility:** yes ,  
**pH:** N/A

### SECTION 10 STABILITY AND REACTIVITY:

**Stability:** Moisture sensitive, light sensitive  
**Conditions to avoid:** dust generation, light, moisture , excess heat.  
**Incompatibility** oxidizing agents. Acids sodium nitrate ammonia  
**Hazardous Decomposition Products:** hydrogen cyanide, nitrogen oxides, carbon monoxide, carbon dioxide.  
**Hazardous Polymerization:** Has not been reported

### SECTION 11 TOXICOLOGICAL PROPERTIES

**Exposure Limits:**  
No data available

**Epidemiology:** No data available  
**Teratogenicity:** No data available  
**Reproductive Effects:** No data available

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**Neurotoxicity:** No data available

**Mutagenicity:** No data available

**Carcinogenicity:** not listed by ACGIH, IARC, NTP, or CA

### SECTION 12 ECOLOGICAL INFORMATION

No information found.

Do not empty into drains

### SECTION 13 DISPOSAL CONSIDERATION

**Waste Disposal:** Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

### SECTION 14 TRANSPORT INFORMATION

**Shipping Information:** Not regulated

### SECTION 15 REGULATORY INFORMATION

**US :** TSCA: listed

**European/International:**

Risk Phrases:

R32 Contact with acids liberates very toxic gases

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

S 50A Do not mix with acids.

**Canada:** WHMIS: not controlled

### SECTION 16 ADDITIONAL INFORMATION

**Hazard Rating System (estimated)**

NFPA	Health	Fire	Reactivity
	1	0	1

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Date Prepared: Jann 1/2025

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The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.

Observe all federal, provincial and state laws concerning health, safety and pollution.