

SAFETY DATA SHEET

POTASSIUM FERRICYANIDE

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 Ferricyanide
Catalog Number: PFC444

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 #	%
Potassium Ferricyanide :	13746-66-2	98% +

Molecular Formula: K₃C₆FeN₆
Molecular Weight: 329.26

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/m³ TWA as Fe
NIOSH, 1mg/m³TWA as Fe
OSHA, 5mg/m³ 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: orange to red, odorless
Melting Point: decomposes
Boiling Point: N/A
Specific Gravity: 1.85/cm³
Vapor Density: N/A
Water Solubility: yes , 464g/L
pH: 6.0 (5% soln)

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:
Oral mouse: LD50: 2970mg/kg

Epidemiology: No data available
Teratogenicity: No data available

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Reproductive Effects: No data available

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

Prepared By: M.Kierdelewicz (President)

Date Prepared: Jan 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.