



# Material Safety Data Sheet

## EMERGENCY NUMBERS:

(USA) CHEMTREC : 1(800) 424-9300 (24hrs)

(CAN) CANUTEC : 1(613) 996-6666 (24hrs)

(USA) Anachemia : 1(518) 297-4444

(CAN) Anachemia : 1(514) 489-5711

WHMIS	Protective Clothing	TDG Road/Rail
Not controlled under WHMIS (Canada).		Not controlled under TDG (Canada). PIN: Not applicable. PG: Not applicable.

## Section I. Product Identification and Uses

<b>Product name</b>	<b>POTASSIUM FERROCYANIDE</b>	<b>CI#</b>	Not available.
<b>Chemical formula</b>	K <sub>4</sub> Fe(CN) <sub>6</sub> ·3H <sub>2</sub> O	<b>CAS#</b>	14459-95-1
<b>Synonyms</b>	Potassium ferrocyanide trihydrate, Potassium hexacyanoferrate(II), Yellow prussiate of potash, AC-7634, AC-7634P, AC-7634T, 73600, 73630	<b>Code</b>	AC-7634
<b>Supplier</b>	Anachemia Canada. 255 Norman. Lachine (Montreal), Que H8R 1A3	<b>Formula weight</b>	422.39
		<b>Supersedes</b>	
<b>Material uses</b>	For laboratory use only.		

## Section II. Ingredients

Name	CAS #	%	TLV
1) POTASSIUM FERROCYANIDE	14459-95-1	98-100	Not established by ACGIH

**Toxicity values of the hazardous ingredients** POTASSIUM FERROCYANIDE:  
LD50: Not available.  
LC50: Not available.

**Section III. Physical Data**

<b>Physical state and appearance / Odor</b>	Solid. (Yellow crystalline granules. Odorless.)
<b>pH (1% soln/water)</b>	Not available.
<b>Odor threshold</b>	Not available.
<b>Percent volatile</b>	0% at 21°C
<b>Freezing point</b>	Dehydrates at 60 to 100°C
<b>Boiling point</b>	Decomposes.
<b>Specific gravity</b>	1.85 (Water = 1)
<b>Vapor density</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Water/oil dist. coeff.</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Solubility</b>	Soluble in cold water.

**Section IV. Fire and Explosion Data**

<b>Flash point</b>	none
<b>Flammable limits</b>	Not applicable.
<b>Auto-ignition temperature</b>	Not available.
<b>Fire degradation products</b>	Cyanides, oxides of carbon, potassium and nitrogen.
<b>Fire extinguishing procedures</b>	Use extinguishing media suitable for surrounding materials. Wear adequate personal protection to prevent contact with material or its combustion products. Self contained breathing apparatus with a full facepiece operated in a pressure demand or other positive pressure mode.
<b>Fire and Explosion Hazards</b>	Contact with acids liberates very toxic gas. Contact with oxidizers may cause fire and/or explosion. Reacts violently with ammonia and sodium chromate. The sensitivity to static discharge is not available. The sensitivity to impact is not available. Emits toxic fumes under fire conditions.

**Section V. Toxicological Properties**

<b>Routes of entry</b>	Inhalation and ingestion. Eye contact. Skin contact.
<b>Effects of Acute Exposure</b>	May be harmful by ingestion, inhalation, or skin absorption.
<b>Eye</b>	May cause irritation and redness.
<b>Skin</b>	May cause irritation. May be absorbed through the skin.
<b>Inhalation</b>	May cause respiratory tract inflammation. May cause coughing, drowsiness, headache, weakness, hypotension, pharyngitis.
<b>Ingestion</b>	May cause gastrointestinal irritation. May cause abdominal pain, headache, nausea, vomiting, diarrhea.

**Section V. Toxicological Properties**

**Effects of Chronic Overexposure** May cause conjunctivitis and dermatitis. Carcinogenic effects: Not available. Mutagenic effects: Not available. Teratogenic effects: Not available. Toxicity of the product to the reproductive system: Not available. To the best of our knowledge, the chemical, physical, and toxicity of this substance has not been fully investigated.

**Section VI. First Aid Measures**

**Eye contact** Immediately flush eyes with copious quantities of water for at least 15 minutes holding lids apart to ensure flushing of the entire surface. Call a physician.

**Skin contact** Immediately flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Wash contaminated clothing before reusing.

**Inhalation** Remove patient to fresh air. Administer approved oxygen supply if breathing is difficult. Administer artificial respiration or CPR if breathing has ceased. Seek immediate medical attention.

**Ingestion** If conscious, wash out mouth with water. Have conscious person drink several glasses of water or milk. Seek immediate medical attention. Never give anything by mouth to an unconscious or convulsing person.

**Section VII. Reactivity Data**

**Stability** Stable. Conditions to avoid: High temperatures, sparks, open flames and all other sources of ignition, contamination, acids.

**Hazardous decomp. products** Not available.

**Incompatibility** Acids, oxidizing agents, ammonia, chromic acid, nitrates, nitrites, cupric nitrate, sodium chromate, sodium nitrate, acidic materials, perchlorates, chlorates.

**Reaction Products** Contact with acid or acid vapors causes the formation of toxic hydrogen cyanide. Evolves highly toxic hydrogen cyanide when heated. Hazardous polymerization will not occur.

## Section VIII. Preventive Measures

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**Protective Clothing in case of spill and leak** Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.

**Spill and leak** Evacuate the area. Sweep up and place in container for disposal. Avoid raising dust. Ventilate area and wash spill site after material pick up is complete. DO NOT empty into drains. DO NOT touch damaged container or spilled material.

**Waste disposal** According to all applicable regulations. Harmful to aquatic life at low concentrations. Can be dangerous if allowed to enter drinking water intakes. Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds, or rivers.

**Storage and Handling** Store in a cool place away from heated areas, sparks, and flame. Store in a well ventilated area. Store away from incompatible materials. Do not add any other material to the container. Do not wash down the drain. Do not breathe dust. Keep container tightly closed and dry. Manipulate under an adequate fume hood. Avoid raising dust. Empty containers may contain a hazardous residue. Handle and open container with care. Minimize dust generation and exposure - use dust mask or appropriate protection. Take off immediately all contaminated clothing. This product must be manipulated by qualified personnel. Do not get in eyes, on skin, or on clothing. Wash well after use. In accordance with good storage and handling practices. Do not allow smoking and food consumption while handling. In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible.).

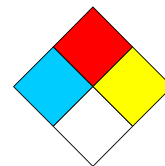
## Section IX. Protective Measures

**Protective clothing** Splash goggles. Impervious gloves, coveralls, and/or other resistant protective clothing. Sufficient to protect skin. If use conditions generate dusts, wear a NIOSH-approved respirator appropriate for those emission levels. Appropriate respirators may be a full facepiece or a half mask air-purifying cartridge respirator with particulate filters, a self-contained breathing apparatus in the pressure demand mode, or a supplied-air respirator. Do not wear contact lenses. Make eye bath and emergency shower available. Ensure that eyewash station and safety shower is proximal to the work-station location.

**Engineering controls** Use in a chemical fume hood. Use adequate ventilation. Do not use in unventilated spaces.

## Section X. Other Information

**Special Precautions or comments** Product may be harmful! Do not breathe dust. Avoid all contact with the product. Avoid prolonged or repeated exposure. Use in a chemical fume hood. Contact with acid or acid vapors causes the formation of toxic hydrogen cyanide. Handle and open container with care. Container should be opened only by a technically qualified person. May be harmful to aquatic life. Can be dangerous if allowed to enter drinking water intakes.



NFPA

Prepared by MSDS Department/Département de F.S..

Validated 03-Jan-2013



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