

# BBC Biochemical MATERIAL SAFETY DATA SHEET

## Section 1. Chemical Product and Company Information

<b>Common Name:</b> Potassium Hexacyanoferrate (II) Trihydrate	<b>Code:</b> RW0373
<b>Supplier:</b> BBC Biochemical	<b>MSDS#:</b> RW0373
<b>Synonym:</b> Potassium ferricyanate; tripotassium hexacyanoferrate; Ferrate (3-), hexacyano, tripotassium	<b>Validation Date:</b> 3-27-09
<b>Trade Name:</b> Not available	<b>Print Date:</b> 3-27-09
<b>Material Uses:</b> Not available	<b>Responsible Name:</b> Dr. B
<b>Manufacturer:</b> BBC Biochemical PO Box 1320 409 Eleanor Lane Mount Vernon, WA 98273 1-800-635-4477	<b>In Case of Emergency: 1-800-424-9300 Chemtrec USA 1-202-483-7616 Chemtrec Intrl 1-800-635-4477</b>

## Section 2. Composition and Information on Ingredients

Name	CAS#	% by Weight	Exposure Limits
1) Potassium Hexacyanoferrate (II) Trihydrate	13746-66-2	99-100	Data no available.

## Section 3. Hazards Identification

<b>Physical State and Appearance</b>	Bright red crystalline powder.
<b>Emergency Overview</b>	Not available.
<b>Routes of Entry</b>	Eye contact, inhalation, ingestion, skin contact.
<b>Potential Acute Health Effects</b>	
<b>Eyes</b>	May cause irritation with redness, pain, and possibly corneal damage.
<b>Skin</b>	May cause irritation with redness and pain.
<b>Inhalation</b>	May cause irritation of the mucous membranes with sore throat and coughing.
<b>Ingestion</b>	Irritant to the gastrointestinal system.
<b>Potential Chronic Health Effects</b>	No information found.
<b>Medical Conditions Aggravated by Overexposure/Overexposure/Signs/Symptoms</b>	

## Section 4. First Aid Measures

<b>Eye Contact</b>	Immediately flush eyes thoroughly with water for at least 15 minutes.
<b>Skin Contact</b>	Immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
<b>Inhalation</b>	Remove to fresh air, give artificial respiration if breathing has stopped.
<b>Ingestion</b>	Get immediate medical attention; if conscious, give water freely. Do NOT induce vomiting unless directed to do so by medical personnel.
<b>Notes to Physician</b>	Not available.

## Section 5. Fire Fighting Measures

<b>Flammability of the Product</b>	Not considered to be a fire hazard.
<b>Auto-ignition Temperature</b>	Not available.
<b>Flash Points</b>	Not available.
<b>Flammable Limits</b>	Not available.
<b>Products of Combustion</b>	Not available.
<b>Fire Hazards in Presence Of Various Substances</b>	None indicated.

<b>Explosion Hazards in Presence of Various Substances</b>	None indicated.
<b>Fire Fighting Media and Instructions</b>	Wear self-contained breathing apparatus.
<b>Protective Clothing (Fire)</b>	
<b>Special Remarks on Fire Hazards</b>	
<b>Special Remarks on Explosion Hazards</b>	

### Section 6. Accidental Release Measures

<b>Small Spill and Leak</b>	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
<b>Large Spill and Leak</b>	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

### Section 7, Handling and Storage

<b>Handling</b>	Avoid prolonged, or repeated skin contact. Do not get in eyes. Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be available.
<b>Storage</b>	Keep container closed.

### Section 8. Exposure Controls / Personal Protection

<b>Engineering Controls</b>	
<b>Personal Protection</b>	
<b>Eyes</b>	Safety glasses with side shields should be worn at all times.
<b>Body</b>	Impervious clothing should be worn to prevent skin contact.
<b>Respiratory</b>	Any dust or mist respirator. If workplace exposure limit(s) of product or any component is exceeded, a NIOSH/MSHA approved air respirator is advised in absence of proper environmental control. Material should be handled or transferred in an approved fume hood or with adequate ventilation.
<b>Hands</b>	Rubber or equivalent gloves should be worn to prevent skin contact.
<b>Feet</b>	Data not available.
<b>Personal Protection in Case of a Large Spill</b>	
Impervious clothing, rubber or equivalent gloves, safety glasses with side shields and respirator.	
<b>Product Name</b>	<b>Exposure Limits</b>
1) Data not available.	
2)	
3)	
<b>Consult Local authorities before acceptable exposure limits.</b>	

### Section 9. Physical and Chemical Properties

<b>Physical State and Appearance</b>	Crystalline powder	<b>Odor:</b>	Odorless
<b>Molecular Weight</b>	329.25	<b>Taste:</b>	Not available.
<b>Molecular Formula</b>	K <sub>3</sub> Fe(CN) <sub>6</sub>	<b>Color:</b>	Bright Red
<b>pH (1%/Water)</b>	Not applicable.		
<b>Boiling/Condensation Point</b>	Not applicable.		
<b>Melting/Freezing Point</b>	Not applicable.		
<b>Critical Temperature</b>	Not applicable.		
<b>Specific Gravity</b>	Not applicable.		
<b>Vapor Pressure</b>	Not applicable.		
<b>Vapor Density</b>	Not applicable.		
<b>Volatility</b>	Not applicable.		
<b>Odor Threshold</b>	Not applicable.		
<b>Evaporation Rate</b>	Not applicable.		
<b>VOC</b>	Not available.		
<b>Viscosity</b>	Not available.		
<b>Ionicity (in water)</b>	Not available.		
<b>Dispersion Properties</b>	Not available.		
<b>Solubility</b>	Slowly soluble in 2.5 parts cold water		
<b>Physical Chemical Comments</b>	Not available.		

**Section 10. Stability and Reactivity**

<b>Stability and Reactivity</b>	Stable under ordinary conditions of use and storage. The aqueous solution decomposes slowly on standing.
<b>Conditions of Instability</b>	When heated to decomposition or comes in contact with acid or acid fumes it emits toxic fumes of cyanides and oxides of nitrogen. Avoid contact with light, heat and incompatibles.
<b>Incompatibility with Various Substances</b>	Ammonia, chromium trioxide + heat, cupric nitrate, sodium nitrate + heat, acids and acid fumes.
<b>Hazardous Decomposition Products</b>	Corrosive vapors of ammonia and toxic oxides or nitrogen.
<b>Hazardous Polymerization</b>	Does not occur.

**Section 11. Toxicological Information**

<b>Toxicity to Animals</b>	Oral mouse LD50: 2970 mg/kg. Investigated as a mutagen.
<b>Chronic Effects on Humans</b>	
<b>Other Toxic Effects on Humans</b>	
<b>Special Remarks on Toxicity to Animals</b>	Not available.
<b>Special Remarks on Chronic Effects on Humans</b>	Not available.
<b>Special Remarks on Other Toxic Effects on Humans</b>	Not available.

**Section 12. Ecological Information**

<b>Ecotoxicity</b>	Not available.
<b>BODS and COD</b>	Not available.
<b>Biodegradable/OEDC</b>	Not available.
<b>Mobility</b>	Not available.
<b>Toxicity of the Products of Biodegradation</b>	Not available.
<b>Special Remarks on The Products of Biodegradation</b>	Not available.

**Section 13. Disposal Considerations**

<b>Waste Information</b>	Not available.
<b>Waste Stream</b>	Not available.
<b>Consult your local or regional authorities. Always contact a permitted waste disposer (TSD) to assure compliance with all current local, state and federal regulations.</b>	

**Section 14. Transport Information**

<b>DOT Classification</b>	Not hazardous.
<b>Marine Pollutant</b>	Not available.
<b>Hazardous Substances Reportable Quantity</b>	Not available.
<b>Special Provisions for Transport</b>	Not applicable.
<b>TDG Classification</b>	Not controlled under TDG (Canada).
<b>ADR/RID Classification</b>	Not controlled under ADR (Europe).
<b>IMO/IMDG Classification</b>	Not controlled under IMDG.
<b>ICAO/IATA Classification</b>	Not controlled under IATA.

**Section 15. Other Information**

<b>Label requirements</b>
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<b>Hazardous Material Information System (U.S.A.)</b>	<b>Health</b>	3	<b>National Fire Protection Association (U.S.A.)</b>	
	<b>Fire Hazard</b>	0		
	<b>Reactivity</b>	1		
	<b>Personal Protection</b>			
<b>References</b>				
<b>Other Special Considerations</b>				
<b>Notice to Reader</b>				
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