

Material Safety Data Sheet

Potassium ferri(III)cyanide, 98%

ACC# 95764

Section 1 - Chemical Product and Company Identification

MSDS Name: Potassium ferri(III)cyanide, 98%

Catalog Numbers: AC196780000, AC196785000

Synonyms: Red prussiate; Red potassium prussiate; Potassium hexacyanoferrate(III), Potassium ferricyanide; Potassium iron(III) cyanide; Iron potassium cyanide; Potassium ferricyanate; Tripotassium iron hexacyanide; Tripotassium hexacyanoferrate.

Company Identification:

Acros Organics N.V.

One Reagent Lane

Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01

For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
13746-66-2	Potassium ferri(III)cyanide	98%	237-323-3

Hazard Symbols: None listed.

Risk Phrases: 32

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: red solid. **Caution!** Causes eye and skin irritation. Light sensitive. Causes respiratory tract irritation. Contact with acid liberates a toxic gas, cyanide. Contact with acid liberates hydrogen cyanide, a flammable gas or liquid.

Target Organs: Respiratory system, eyes.

Potential Health Effects

Eye: May cause mild eye irritation. Contact may cause transient eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed.

Inhalation: May cause respiratory tract irritation.

Chronic: Not available. Long term inhalation in rats caused changes in urine composition and red blood cell count.



Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Potassium ferri(III)cyanide	none listed	none listed	none listed

OSHA Vacated PELs: Potassium ferri(III)cyanide: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Appearance: red

Odor: odorless

pH: Not available.

Vapor Pressure: Negligible

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: Decomposes

Decomposition Temperature: > 310 deg C

Solubility: Soluble.

Specific Gravity/Density: 1.85 g/cm³

Molecular Formula: C₆FeK₃N₆

Molecular Weight: 329.26

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. Decomposes when heated.

Conditions to Avoid: High temperatures, light, dust generation.

Incompatibilities with Other Materials: Strong oxidizing agents, strong acids.
Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide, cyanides, oxides of potassium.
Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#:

CAS# 13746-66-2: LJ8225000

LD50/LC50:

CAS# 13746-66-2:

Oral, mouse: LD50 = 2970 mg/kg;

Carcinogenicity:

CAS# 13746-66-2: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: No data available.

Teratogenicity: No data available.

Reproductive Effects: No data available.

Neurotoxicity: No information reported

Mutagenicity: See actual entry in RTECS for complete information.

Other Studies: The hazard classification for this product is based on supplier information.

Section 12 - Ecological Information

Ecotoxicity: No data available. Acute and long-term toxicity to fish and invertebrates:

LC50/96hr for fathead minnow: GT 100mg/L; LC50/96hr for water flea: 80mg/L. Toxicity to

aquatic and terrestrial plants: No plant germination adverse effects at 10mg/L for ryegrass, radish and lettuce.

Environmental: Bioaccumulation/Bioconcentration: Not likely to bioconcentrate.

Physical: No information available.

Other: No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

S50A Do not mix with acids.

WGK (Water Danger/Protection)

CAS# 13746-66-2: 2

Canada - DSL/NDSL

CAS# 13746-66-2 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of D2B.

Canadian Ingredient Disclosure List

CAS# 13746-66-2 (listed as Iron salts (soluble)) is listed on the Canadian Ingredient Disclosure List.

Exposure Limits

CAS# 13746-66-2 (listed as cyanide anion): OEL-ARAB Republic of Egypt:

TWA 5 mg/m³; Skin OEL-AUSTRALIA: TWA 5 mg/m³; Skin OEL-AUSTRIA: TWA 5 mg/m³; Skin OEL-CZECHOSLOVAKIA: TWA 3 mg/m³; STEL 10 mg/m³ JAN9 OEL-DENMARK: TWA 5 mg/m³; Skin OEL-FINLAND: TWA 5 mg/m³; STEL 10 mg/m³ OEL-FRANCE: TWA 5 mg/m³; Skin OEL-GERMANY: TWA 5 mg/m³; Skin OEL-HUNGARY: TWA 0.3 mg/m³; STEL 0.6 mg/m³; Skin OEL-INDIA: TWA 4 mg/m³; Skin OEL-THE NETHERLANDS: TWA 5 mg/m³; Skin OEL-THE PHILIPPINES: TWA 5 mg/m³; Skin OEL-POLAND: TWA 0.3 mg/m³ OEL-SWEDEN: STEL 5 mg/m³; Skin OEL-SWITZERLAND: TWA 5 mg/m³; STEL 10 mg/m³; Skin OEL-THAILAND: TWA 5 mg/m³ OEL-UNITED KINGDOM: TWA 5 mg/m³; Skin

Section 16 - Additional Information

MSDS Creation Date: 6/27/2000

Revision #2 Date: 3/04/2002

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