

Camlab Limited – Material Safety Data Sheet

1. Identification


Product Code CC/1346-CH

Product Name **POTASSIUM FERROCYANIDE 3H₂O pure**

Molecular Formula **K₄Fe(CN)₆·3H₂O =422.39**

CAS Number **14459-95-1**

Supplier: **CAMLAB LIMITED**



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(Have this document to hand)

2. Composition

No hazardous components

3. Hazards Identification

Not considered harmful

4. First Aid Measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water.

Inhalation Remove from exposure.

Ingestion Induce vomiting. Keep warm and at rest. OBTAIN MEDICAL ATTENTION.

5. Fire Fighting Measures

Hazards Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. May evolve toxic fumes if involved in a fire.

Extinguishing Media Dry chemical powder.

Unsuitable Media Nothing specified.

6. Accidental Release Measures

Personal Protection Do not allow general use of area until it is safe to do so. Avoid breathing dust-wear respiratory protective equipment.

Environmental Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

Major Spillage Shovel/sweep up into container for removal Wash area down with copious amounts of water.

6. Accidental Release Measures (continued)

Minor Spillage Wash area down with copious amounts of water.

7. Storage & Handling

Handling Precautions Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.
 Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.

Storage Conditions Well ventilated, cool, dry storage .

8.1 Workplace Exposure Limits

No prescribed exposure limits available

8.2 Personal Protection

Respiratory If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.

Hands Wear gloves.

Eyes Use chemical splash proof glasses or goggles.

Skin Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

9. Physical & Chemical Properties

Appearance Lemon yellow crystals.
Odour No specific odour.
pH Not available
Boiling point Not available
Melting point 884.0 °C
Flash point Not available
Upper Flammable Limit Not available
Lower Flammable Limit Not available
Auto Ignition Not available
Explosive properties No.
Oxidising Properties No.
Vapour Pressure Not available
Relative Density 1.8940 °C
Water Solubility 44%

10. Stability & Reactivity

Chemical Stability Stable under normal conditions

Conditions to Avoid Avoid heat and contact with acids and acid fumes.

Materials to Avoid Acids, acid fumes and chromium trioxide.

Hazardous Will evolve very toxic fumes of cyanide if involved in a fire or heated to decomposition.

Decomposition Products

11. Toxicological Information

Eyes Contact with the solid or dust may be irritating to the eyes.

Skin Unlikely to be an irritant on brief or occasional exposure.

LD50 Skin Not available

Ingest Ingestion of large amounts may cause diarrhoea, nausea, vomiting, hyperpnoea and convulsions.

LD50 Ingest LDlo (Rat) 1600mg/Kg

Inhalation Presents no significant health hazard by inhalation.

11. Toxicological Information (continued)

| | |
|----------------------|------------------------------------|
| Carcinogenicity | Not considered to be a carcinogen. |
| Mutagenicity | Not considered to be a mutagen. |
| Reproductive Effects | None identified. |

12. Ecological

No specific environmental hazard.

13. Disposal Considerations

| | |
|------------------------|---|
| Disposal Methods | Do not dispose of as domestic waste. Dispose of to a licensed land fill site. |
| Contaminated Packaging | Wash out containers with water. Use a licensed waste disposer. |

14. Transport Information

| | |
|----------------------|----------------|
| Proper Shipping Name | Non-restricted |
| UN Number | Non-restricted |
| UN Classification | None |
| Subsidiary Risk | None |
| Flash Point | Not available |
| Packing Group | None |
| Transport Category | None |
| Marine pollutant | No |
| ADR Hazard ID | Non-restricted |

15. Regulatory Information

| | |
|-----------------------------|---------------|
| Labelling Classification | None |
| Label Symbols | None |
| Risk & safety Phrases | None |
| EEC Number | Not available |

16. Other Information

Document Information This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

Revision Date: 18/01/01.

Data reviewed and PDF file generated: 19/07/07.

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