SDS Potassium Ferricyanide (III)

Date of Issue: 11/07/2019 Expiry: 01/08/2024

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Name **ECP Limited**

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Product	Potassium Ferricyanide			**Code**	42101, 42108, PA025, PL025, 5359	
CAS#	**HSNO#**	**UN #**	**DG Class/es**	**Packing group #**	**Tracking?**	**Handlers Certificate?**
13746-66-2	HSR007443	NA	NA	NA	No	No

Recommended use: Laboratory Investigations

2. Hazards identification

2.1 GHS Classification

Acute toxicity, Oral (Category E), H303

2.2 GHS Label elements, including precautionary statements

Pictogram N/A

Signal word **Warning**

Hazard statement(s)

H303 May be harmful if swallowed.

Precautionary statement(s)

Response

P312 Call a POISON CENTER/doctor if you feel unwell.

2.3 Other hazards

Contact with acids liberates very toxic gas.

3. Composition/information on ingredients

Substance/Mixture: Substance

3.1 Substances

Synonyms:

Potassium hexacyanoferrate(III)

Red prussiate

Formula: $K_3Fe(CN)_6$

Molecular weight: 329.26 g/mol

CAS-No.: 13746-66-2

Components	Classification	Concentration
Tripotassium hexacyanoferrate		
	6.1 E; H303	<= 100%

4. First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.
In case of eye contact
Flush eyes with water as a precaution.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. Firefighting measures
5.1 Extinguishing media
Suitable extinguishing media
Dry powder
5.2 Special hazards arising from the substance or mixture
Carbon oxides, nitrogen oxides (NOx), potassium oxides, iron oxides.
5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental release measures
6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Avoid breathing dust.
6.2 Environmental precautions
Do not let product enter drains.
6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

7. Handling and storage
7.1 Precautions for safe handling
Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. Do not store near acids.

8. Exposure controls/personal protection
8.1 Control parameters
Occupational Exposure Limits Table

Component	**CAS No.**	**Value**	**Control parameters**	**Basis**
Tripotassium hexacyanoferrate	13746-66-2	WES-TWA	5 mg/m^3	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
	Remarks	Skin absorption		
		WES-TWA	1 mg/m^3	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

8.2 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment
Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.
Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Body Protection
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.
Control of environmental exposure
Do not let product enter drains.

9. Physical and chemical properties
9.1 Information on basic physical and chemical properties
a) Appearance
Form: powder
b) pH
6.0 - 9 at 329 g/l at 25 °C
c) Relative density
1.890 g/cm^3
d) Water solubility
329 g/l at 20 °C - completely soluble

10. Stability and reactivity
10.1 Reactivity
Contact with acids liberates very toxic gas.
10.2 Chemical stability
Stable under recommended storage conditions.
10.3 Incompatible materials
Strong acids, Strong oxidizing agents, Ammonia, hydrochloric acid, Cyanides
10.4 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions
Carbon oxides, nitrogen oxides (NOx), potassium oxides, iron oxides.

11. Toxicological information
11.1 Information on toxicological effects
Acute toxicity

LD50 Oral - Mouse - 2,970 mg/kg
Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Additional Information
RTECS: LJ8225000

12. Ecological information
12.1 Toxicity
Toxicity to fish
LC50 - Poecilia reticulata (guppy) - 2.8 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates
EC50 - Daphnia magna (Water flea) - 549 mg/l - 48 h

13. Disposal considerations
13.1 Waste treatment methods
Product
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging
Dispose of as unused product.

14. Transport Information Table

		ADR/RID – European packaging certification	**IMDG International Maritime Dangerous Goods Code**	**IATA – DGR International Air Travel Association – Dangerous Goods Regulations**
14.1	**UN Number**	-	-	-
14.2	**UN Proper Shipping name**	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.3	**Transport Hazard Class**	-	-	-
14.4	**Packaging group**	-	-	-
14.5	**Environmental Hazards**	-	-	-
14.6	**Special precautions for user**	None		
14.7	**Incompatible materials**	Strong acids, strong oxidizing agents, ammonia, hydrochloric acid, cyanides.		

15. Regulatory information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulatory information
HSNO Group Standard Approval: HSR002596 - Laboratory Chemicals and Reagent Kits Group Standard 2006
Tracking Required: not required
Approved Handler Cert.: not required

16. Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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