

1. Product and Company Identification

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Product Name Potassium Ferricyanide
Part Number RXSOL-60-6126-025

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

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Website www.rxmarine.com

2. Composition / Information on ingredients

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Chemical Name	CAS	EC .NO	Weight	Formula
Potassium hexacyanoferrate	13746-66-2	237-323-3	329,25 g/mol	K ₃ Fe(CN) ₆

3. Hazards Identification

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Signal Word	Warning
Hazard Statements	H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects. P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear eye protection/ face protection. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do Continuerinsing. P337 + P313 If eye irritation persists: Get medical advice/ attention. P391 Collect spillage.
Precautionary statements - response	NA
Response	NA
Disposal	NA
Storage	NA
Prevention	NA
Supplemental Hazard Statements	EUH032 Contact with acids liberates very toxic gas.
Other hazards	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

4. First Aid Measures

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General advice	Show this material safety data sheet to the doctor in attendance.
If inhaled	After inhalation: fresh air.
Eye Contact	After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.
Swallowed	After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.
Skin Contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
Inhalation	NA
Ingestion	NA
Notes to Physician	NA
If swallowed	After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.
Most important symptoms and effects, both acute and delayed	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
Indication of any immediate medical attention and special treatment needed	No data available

5. Fire-fighting Measures

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Extinguishing media	NA
Flammability	NA
Flash Point	NA
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
Unsuitable extinguishing media	For this substance/mixture no limitations of extinguishing agents are given.
Specific hazards arising from the chemical	NA
Special hazards arising from the substance or mixture	Carbon oxides, Nitrogen oxides (NO _x), Potassium oxides, Iron oxides, Not combustible. Ambient fire may liberate hazardous vapours
Further information	Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.
Hazardous combustion products	NA
Advice for firefighters	In the event of fire, wear self-contained breathing apparatus
Protective Equipment	NA
Hazardous thermal decomposition products	NA
Special protective actions for fire-fighters	NA

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency advice for non-emergency personnel: Avoid inhalation of dusts. Avoid

procedures,For non-emergency personnel	substance contact.
	Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures,
	consult an expert.
For emergency responders	NA
Spillage	NA
Personal Protection	NA
Enviromental Precaution	Do not let product enter drains.
Methods and materials for containment and cleaning	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions
	(see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid
	generation of dusts.
Reference to other sections	For disposal see section 13.

7. Handling and Storage

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Advice on safe handling	NA.
Advice on protection against fire and explosion	NA
Hygiene measures	NA
Precautions fo safe handling	For precautions see section 2.2.
Protective measures	NA
Conditions for safe storage, including any incompatibilities	NA
Storage conditions	Tightly closed. Dry.Do not store near acids.
	Do not store near acids.Tightly closed. Dry.
	Do not store near acids.
Storage class	Storage class (TRGS 510): 13: Non Combustible Solids
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
Handling	NA
Advice on general occupational hygiene	NA

8. Exposure controls and personal protection

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Ingredient name	NA
Exposure limits	NA
Biological limit values	NA
Exposure controls	NA
Engineering Control	NA
Eye/face protection	Use equipment for eye protection tested and approved under appropriate
	government standards such as NIOSH (US) or EN 166(EU). Safety glasses
Body Protection	protective clothing
Skin protection	This recommendation applies only to the product stated in the safety data sheet,
	supplied by us and for the designated use. When dissolving in or mixing with other

substances and under conditions deviating from those stated in EN374 please

contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de).Full contactMaterial: Nitrile rubberMinimum layer thickness: 0,11 mm Break through time: 480 minMaterial tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet,

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substances and under conditions deviating from those stated in EN374 please

contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,Internet: www.kcl.de).Splash contactMaterial: Nitrile rubberMinimum layer thickness: 0,11 mm

Break through time: 480 minMaterial tested:KCL 741 Dermatril® L

required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.Recommended Filter type: Filter type P2

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory

protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

NA

Do not let product enter drains

NA

Respiratory protection

Hygiene measures

Control of environmental exposure

Thermal hazards

9. Physical and chemical properties

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Physical state

Powder

Colour

Red.

Odour

No data available

Odor Threshold

Not Applicable

pH

Not Applicable

Melting Point

Regulation (EC) No. 440/2008, Annex, A.1Decomposes before

melting.Regulation (EC) No. 440/2008, Annex, A.1Decomposes before

melting.

Boiling Point

Regulation (EC) No. 440/2008, Annex, A.2Decomposes below

the boiling point.

Flash Point

Not applicable

Evaporation Rate

Not Applicable

Flammability (solid, gas)

The product is not flammable.

Explosive limits

No Data Available

Upper/lower flammability or explosive limits

No data available

Autoignition temperature	Not auto-flammable
Decomposition temperature	No data available
PH	6,0 - 9 at 329 g/l at 25 °C
Viscosity	Viscosity, kinematic: No data available
	Viscosity, dynamic: No data available
Water solubility	363 g/l - Regulation (EC) No. 440/2008, Annex, A.6
Relative density	1,893 at 20 °C - Regulation (EC) No. 440/2008, Annex, A.3
Vapour pressure	2.000 mg/kg(OECD Test Guideline 402)
Skin corrosion/irritation	Skin - Human
	Result: No skin irritation
	(OECD Test Guideline 439)
Serious eye damage/eye irritation	Eyes - Rabbit,Result: Eye irritation,(OECD Test Guideline 405)
Respiratory or skin sensitization	Local lymph node assay (LLNA) - Mouse,Result: negative,(OECD Test Guideline 429)
Rout Of Entry	NA
Toxicity to Animal	NA
Toxic Effects on Human	NA
Germ cell mutagenicity	Test Type: Ames test Test system: Salmonella typhimurium
	Metabolic activation: with and without metabolic activation
	Method: OECD Test Guideline 471 Result: negative
Carcinogenicity	No evidence of carcinogenicity in animal studies. Based on data from similar materials
Reproductive toxicity	No toxicity to reproduction Based on data from similar materials
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Special Remarks on other Toxic Effects on Humans:	NA
Aspiration hazard	No data available
Additional Information	Endocrine disrupting properties
Assessment	Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.Repeated dose toxicity - female - Oral - NOAEL (No observed adverse effect level) - >=630 mg/kg Repeated dose toxicity - male - Oral - NOAEL (No observed adverse effect level) - >= 450mg/kg RTECS: LJ8225000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Endocrine disrupting properties	NA

12. Ecological information

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Persistence and degradability	NA
Bioaccumulative potential	No data available
Toxicity to fish	static test LC50 - Cyprinus carpio (Carp) - > 100 mg/l - 96 h
	(OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 59 mg/l - 48 h
	(OECD Test Guideline 202)
Toxicity to algae	static test ErC50 - Pseudokirchneriella subcapitata - 3,1 mg/l - 72 h
	(OECD Test Guideline 201)

Eco Toxicity	NA
COD and BOD 5	NA
Products Biodegradation:	NA
Mobility in soil	No data available
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Endocrine disrupting properties	NA
Assessment	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Other adverse effects	No data available

13. Disposal considerations

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Disposal methods	NA
Contaminated packaging	NA
Waste treatment Method	No data available

14. Transport information

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UN number	ADR/RID: 3077 IMDG: 3077 IATA: 3077
UN proper shipping name	ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (tripotassium hexacyanoferrate(III)) (tripotassium hexacyanoferrate(III))
	IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (tripotassium hexacyanoferrate(III)) (tripotassium hexacyanoferrate(III))
	IATA: Environmentally hazardous substance, solid, n.o.s. (tripotassium hexacyanoferrate(III)) (tripotassium hexacyanoferrate(III))
	ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (tripotassium hexacyanoferrate(III)) (tripotassium hexacyanoferrate(III))
	IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (tripotassium hexacyanoferrate(III)) (tripotassium hexacyanoferrate(III))
	IATA: Environmentally hazardous substance, solid, n.o.s. (tripotassium hexacyanoferrate(III)) (tripotassium hexacyanoferrate(III))
Transport hazard class(es)	ADR/RID: 9 IMDG: 9 IATA: 9
Packaging group	ADR/RID: III IMDG: III IATA: III
Environmental hazards	ADR/RID: yes IMDG Marine pollutant: yes IATA: yes
Special precautions for user	Tunnel restriction code : (-)
Further information	Further information : No data available
Transport in bulk according to IMO instruments	NA

15. Regulatory information

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U.S. Federal regulations	NA
Safety, health and environmental regulations/legislation specific for the substance or mixture	This material safety data sheet complies with the requirements of Regulation (EC) No.
	1907/2006
National legislation	Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
	ENVIRONMENTAL HAZARDS
DSCL (EEC)	NA
Other regulations	Take note of Dir 94/33/EC on the protection of young people at work.
Chemical Safety Assessment	For this product a chemical safety assessment was not carried out

16. Other information

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Other Information	<p>The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we 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 Rx Marine International has been advised of the possibility of such damages.</p> <p>EUH032 Contact with acids liberates very toxic gas.</p> <p>H319 Causes serious eye irritation.</p> <p>H411 Toxic to aquatic life with long lasting effects</p>
Full text of H-Statements referred to under sections 2 and 3.	<p>DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.</p>