



Safety Data Sheet According to Regulation (EU) 830/2015

1503 Potassium Hexacyanoferrate(III)

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Name:

Potassium Hexacyanoferrate(III)

Synonym:

Potassium Ferricyanide

REACH Registration Number: A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

1.2 Relevant identified uses of the substance or mixture:

For laboratory utilisation, analysis, research and fine chemistry.

1.3 Identification of the company or firm:

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: product.safety@panreac.com

1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

2. Identification of dangers

2.1 Classification of the substance or the mixture.

2.3 Other hazards:

No further relevant information available.

3. Composition/information on ingredients

3.1 Substances

Name: Potassium Hexacyanoferrate(III)

Formula: $K_3[Fe(CN)_6]$ M.= 329,26 CAS [13746-66-2]

EC number (EINECS): 237-323-3

3.2 Mixtures

4. First aid measures

4.1 Description of first aid measures

Never provide drink or induce vomiting in the event of loss of consciousness.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Swallowing:

Drink large amounts of water. Induce vomiting. Seek immediate medical assistance. Stomach lavage. In the event of suffocation, proceed to provide artificial respiration.

Inhaling:

Take the person out into the fresh air. In the event sickness persists, seek medical assistance.

Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

Eyes:

Wash with plenty of water, keeping eyelids open.

5. Firefighting measures

5.1 Extinguishing media:

As appropriate to the environment.

5.2 Special hazards arising from the substance or mixture:

Incombustible. In the event of fire, toxic fumes may form.

5.3 Advice for firefighters:

Suitable clothing and footwear.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

No special indications.

6.2 Environmental precautions:

Avoid pollution of the soil, water supplies and drains.

6.3 Methods and material for containment and cleaning up:

Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

6.4 Reference to other sections

Not applicable

7. Handling and storage

7.1 Precautions for safe handling:

No special indications.

7.2 Conditions for safe storage, including any incompatibilities:

Well sealed containers. Away from light. Dry atmosphere.

Recommended storage temperature: Room temperature.

7.3 Specific end use(s)

No more relevant data available

8. Exposure controls/personal protection

8.1 Control parameters:

Data not available.

8.2 Exposure controls

No special indications.

Respiratory protection:

If dust forms, use suitable respiratory protection.

Hand protection:

Use suitable gloves

Eye/face protection:

Use safety glasses.

Individual hygiene measures:

Remove contaminated clothing. Wash hands before breaks and when the job is done.

Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: solid

Colour: Red

Granulometry: N/A

Odour: Odourless.

pH: ~6 ((50 g/l))

Melting point/freezing point: N/A

Initial boiling point and boiling range:

N/A

Flash point:

N/A

Flammability (solid, gas):
N/A
Upper/lower flammability or explosive limits:
N/A
Vapour pressure: N/A
Vapour density: N/A
Relative density: 1,89 g/ml
Solubility: 315 g/l in water (20 °C)
Partition coefficient: n-octanol/water:
N/A
Auto-ignition temperature:
N/A
Decomposition temperature: above 200 °C
Kinematic viscosity: N/A
Dynamic viscosity:
N/A

9.2 Other information

No more relevant data available

10. Stability and reactivity

10.1 Reactivity

No specific data.

10.2 Chemical stability:

No specific data.

10.3 Possibility of hazardous reactions

No specific data.

10.4 Conditions to avoid:

The product is chemically stable under standard ambient conditions (room temperature).

10.5 Incompatible materials:

Acids. Oxidant agents. Ammonia. Fluorine. Hydrogen halides Nitrides. Heat

10.6 Hazardous decomposition products:

Hydrogen cyanide.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD L0 oral rat : 1.600 mg/kg

LD50 oral mus : 2.970 mg/kg

Dangerous effects for health:

Upon contact with the skin: irritations Through contact with the eyes: irritations
Decomposition originates very toxic products. For cyanide compounds and nitriles
generally: Risk of hydrocyanic gas being given off. Cellular respiratory blockage
May cause: cardiovascular disorders breathing difficulties loss of consciousness
death If dust inhaled: breathing difficulties vomiting vertigo cardiovascular
disorders cyanosis coma Other dangerous characteristics are not discarded. Take
the usual precautions for handling chemical products.

12. Environmental information

12.1 Toxicity:

- EC50 test (mg/l):

Crustaceans (Daphnia magna) CN-. 1,0 mg/l

Classification:

Extr. toxic

Lesser organisms CN-. 0,1 mg/l

Classification:

Extr. toxic

Fish /60h(CN-) 0,08 mg/l

Classification: Extr. toxic

- Receptor medium:

Risk for the water environment

Risk for the land environment

- Observations:

The ecotoxicity is due to the ion CN-.

12.2 Persistence and Degradability :

- Test:

- Biotic degradation classification:

BOD5/COD

Biodegradability

- Abiotic degradation depending on pH:

- Observations:

12.3 Bioaccumulative potential:

- Test:

- Bioaccumulation:

Risk

- Observations:

12.4 Mobility in soil :

Data not available.

12.5 Assessment PBT and MPMB :

Data not available.

12.6 Other adverse effects:

Dangerous for drinking water.

Do not allow it to enter soils or water channels.

13. Disposal considerations

13.1 Waste treatment methods:

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

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Contaminated containers:

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

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14. Transport information

14.1 UN number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

Not applicable

16. Other information

Other precautionary statements

Version and revision date : 6 27.04.2018

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In respect of the previous review, changes have been made to the following sections: 11

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.