

Safety Data Sheet

According to Regulation (EC) 1907/2006



1705 Sodium Pentacyanonitrosferrate(III) 2-hydrate

Identification of the substance/preparation and of the company or firm

1.1 Identification of the substance or preparation

Name:

Sodium Pentacyanonitrosferrate(III) 2-hydrate

1.2 Synonym:

Disodium Pentakis(cyano-C)Nitrosylferrate (2-), Sodium Nitroferricyanide, Sodium Nitroprussiate, Sodium Nitroprusside

1.3 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

1.4 Identification of the company or firm:

PANREAC QUIMICA S.L.U.

C/Garraf 2

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(Barcelona) Spain

Tel. (+34) 937 489 400

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Emergencies:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

Identification of dangers

Classification of the substance or the mixture.

Classification Regulation (CE) n° 1272/2008.

Acute Tox. 3

Hazard Pictograms



Signal word

Danger

Hazard statements

H301 Toxic if swallowed.

Precautionary statements

P264 Wash...thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

Classification (67/548/CEE or 1999/45/CE).

T ToxicR25

For the full text of the R-phrases mentioned in this section, see section 16.

Component Composition/Information

Name: Sodium Pentacyanonitrosferrate(III) 2-hydrate

Formula: $\text{Na}_2\text{Fe}(\text{CN})_5\text{NO}\cdot 2\text{H}_2\text{O}$ M.= 297,95 CAS [13755-38-9]

EC number (EINECS): 238-373-9

First aid

4.1 General indications:

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

4.2 Inhaling:

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

4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

4.4 Eyes:

Wash with plenty of water (for at least 15 minutes), keeping eyelids open.

4.5 Swallowing:

Drink large amounts of water. Induce vomiting. Seek immediate medical assistance. Stomach lavage.

Fire-fighting means

5.1 Suitable fire-extinguishing means:

As appropriate to the environment.

5.2 Fire-fighting means which must NOT be used:

5.3 Special risks:

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

5.4 Protective equipment:

Measures to be taken in the event of accidental spillage

6.1 Individual precautions:

Do not inhale the dust.

6.2 Precautions for care of the environment:

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

6.3 Methods for collection/cleaning:

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

Handling and storage

7.1 Handling:

No special indications.

7.2 Storage:

Well sealed containers. Dry atmosphere. In well ventilated premises. Atmospheric temperature. Restricted access, only authorized to technicians.

Staff exposure/protection controls

8.1 Technical protective measures:

8.2 Exposure limit control:

8.3 Respiratory protection:

If dust forms, use suitable respiratory protection.

8.4 Hand protection:

Use suitable gloves

8.5 Eye protection:

Use suitable goggles.

8.6 Individual hygiene measures:

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

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

Physical and chemical properties

Appearance: solid

Colour: Dark red

Granulometry:

Odour: Odourless.

pH: 5

Melting point/freezing point:

Initial boiling point and boiling range:

Flash point:

Flammability (solid, gas):

Upper/lower flammability or explosive limits:

Vapour pressure:

Vapour density:

Relative density: 1,72

Solubility: 400 g/l water 20 °C

Partition coefficient: n-octanol/water:

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

Stability and reactivity

10.1 Conditions which should be avoided:

10.2 Matter which should be avoided:

Acids.

10.3 Hazardous decomposition products:**10.4 Complementary information:**

Toxicological information

- **Acute toxicity:**

LD L0 oral rat : 20 mg/kg

LD50 ipr mus : 9 mg/kg

- **Dangerous effects for health:**

If swallowed and inhaled: hypotension collapse cardiovascular failure Decomposition originates very toxic products. (HCN): Can cause headaches tachycardia breathing difficulties respiratory paralysis vertigo loss of consciousness spasms effects on the central nervous system

Environmental information

12.1 Mobility:**12.2 Ecotoxicity:**

12.1.1 - EC50 test (mg/l):

12.2.2 - Receptor medium:

Risk for the water environment

Risk for the land environment

12.2.3 - Observations:

Ecotoxic data not available.

12.3 Degradability:

12.3.1 - Test:

12.3.2 - Biotic degradation classification:

BOD5/COD

Biodegradability

12.3.3 - Abiotic degradation depending on pH:

12.3.4 - Observations:

Data not available.

12.4 Accumulation:

12.4.1 - Test:

12.4.2 - Bioaccumulation:

Risk

12.4.3 - Observations:

Data not available.

12.5 Other possible effects on the environment:

Do not allow it to enter soils or water channels.

Considerations regarding elimination

13.1 Substance or preparation:

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.

13.2 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.

Information concerning transport

Overland (ADR):

Technical name: CYANIDES, INORGANIC, SOLID, N.O.S.

UN 1588 Class: 6.1 CONTAM. MAR Packaging group: II (D/E)

By sea (IMDG):

Technical name: CYANIDES, INORGANIC, SOLID, N.O.S.

UN 1588 Class: 6.1 CONTAM. MAR Packaging group: II

By air (ICAI-IATA):

Technical name: Cyanides, inorganic, solid, n.o.s.

UN 1588 Class: 6.1 CONTAM. MAR Packaging group: II

Packaging instructions: CAO 615 PAX 613

Regulatory information

Other information

Other precautionary statements

P405 Store locked up.

Labelling (65/548/CEE or 1999/45/CE)

R-phrases(s):	R25 Toxic if swallowed.
S-phrases(s):	S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S37 Wear suitable gloves. S22 Do not breathe dust.

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.

In respect of the previous review, changes have been made to the following sections: 2, 3, 15

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