



S a f e t y D a t a S h e e t
According to Regulation (EC) 1907/2006
and (EU) 453/2010

1652 Sodium Cyanide

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

1.1 Product identifier

Name:

Sodium Cyanide

CAS: [143-33-9]

REACH Registration Number: 01-2119480141-49-XXXX

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)

Tel.: (+34) 937 489 499

2. Identification of dangers

2.1 Classification of the substance or the mixture.

Classification Regulation (CE) nº 1272/2008.

Acute Tox. 2

Acute Tox. 1

Acute Tox. 2

Aquatic Acute 1

Aquatic Chronic 1

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

N Dangerous for the environment
T+ Very toxic

R50/53
R32
R26/27/28

2.2 Label elements:

Hazard Pictograms



Signal word

Danger

Hazard statements

H330 Fatal if inhaled.
H310 Fatal in contact with skin.
H300 Fatal if swallowed.
EUH032 Contact with acids liberates very toxic gas.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P262 Do not get in eyes, on skin, or on clothing.
P264 Wash...thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

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

2.3 Other hazards:

No further relevant information available.

3. Composition/information on ingredients

Name: Sodium Cyanide

Formula: NaCN M.= 49,01 CAS [143-33-9]

EC number (EINECS): 205-599-4

EC index number: 006-007-00-5

REACH Registration Number: 01-2119480141-49-XXXX

4. First aid measures

4.1 General indications:

The first-aidler must be protected. Seek immediate medical attention. (hydrocyanic intoxication). In the event of respiratory stoppage, apply artificial respiration immediately. 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 of suffocation, proceed immediately to provide artificial respiration. Seek immediate medical assistance.

4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing. Seek immediate medical assistance.

4.4 Eyes:

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

4.5 Swallowing:

Drink large amounts of water. Induce vomiting. Administer a solution of medical-usage active charcoal. Seek immediate medical assistance. Indications for the doctor: Provide antidotes (sodium thiosulphate, dimethylaminophenol, CO₂-EDTA).

5. Firefighting measures

5.1 Suitable extinguishing media:

Carbon dioxide (CO₂). Dry powder.

5.2 Unsuitable extinguishing media:

Water.

5.3 Special hazards arising from the substance or mixture:

Incombustible. In the event of fire, toxic fumes may form: HCN. Keep the workplace dry. The substance must not come into contact with water.

5.4 Advice for firefighters:

Suitable clothing and footwear.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Evacuate all non-essential personnel. Avoid contact with the skin, eyes or clothing. Do not inhale the dust. Protect the respiratory tracts.

6.2 Environmental precautions:

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

6.3 Methods and material for containment and cleaning up:

Carry out the operation with maximum precaution. Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

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. Dry atmosphere. In well ventilated premises.

Recommended storage temperature: Room temperature. Restricted access, only authorized to technicians. Do not store in metal containers.

8. Exposure controls/personal protection**8.1 Exposure controls:**

No special indications.

8.2 Control parameters:

VLA-EC(CN): 5 mg/m³ dermal resorption

8.3 Respiratory protection:

Use suitable breathing equipment. Filter B. Filter P3.

8.4 Hand protection:

Use suitable gloves latex neopren nitrile PVC

8.5 Eye/face protection:

Use safety glasses.

8.6 Individual hygiene measures:

Remove contaminated clothing. Use complete protective equipment. Wash hands and face before breaks and when the job is done. Avoid the formation of dust.

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

9. Physical and chemical properties

Appearance: solid

Colour: White

Granulometry: N/A

Odour: Slight, of bitter almonds.

pH: ~11,7

Melting point/freezing point: 563 °C

Initial boiling point and boiling range: 1.496 °C

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: 1 hPa (20 °C)

Vapour density: N/A

Relative density:

Insertar Aquí Grupo de repeticion

(20/4) 1,55 g/ml

Solubility: 480 g/l in water (10 °C)

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: N/A

Kinematic viscosity: N/A

Dynamic viscosity:

N/A

10. Stability and reactivity

10.1 Conditions to avoid:

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

10.2 Incompatible materials:

Strong oxidant agents. Water. Alkaline salts. Acids. Chlorates. Nitrites. Nitrates.

10.3 Hazardous decomposition products:

Hydrogen cyanide.

10.4 Chemical stability:

Hygroscopic. Moisture sensitive.

11. Toxicological information

11.1 Acute toxicity:

LD L0 oral man : 2,857 mg/kg

LD50 oral rat : 15 mg/kg

LD50 ipr mus : 5,881 mg/kg

LD50 ipr rat : 4,3 mg/kg

11.2 Dangerous effects for health:

If fumes inhaled: Irritations to the mucosae breathing difficulties Risk of cutaneous absorption. Upon contact with the skin: Risk of cutaneous absorption. If swallowed: nausea vomiting Due to absorption: lethal effect respiratory paralysis cardiovascular failure Systemic effects: For cyanide compounds and nitriles generally: Cellular respiratory blockage cardiovascular disorders breathing difficulties loss of consciousness

12. Environmental information

12.1 Toxicity:

- EC50 test (mg/l):

Bacteria (*Photobacterium phosphoreum*) 2,8 mg/l

Classification:

Extr. toxic

Protozoa (*E. sulcatum*) EC0 1,8 mg/l

Classification: Extr. toxic

Crustaceans (*Daphnia magna*) EC0 3,4 mg/l

Classification: Extr. toxic

Fish (*Leuciscus Idus*) 0,07 mg/l

Classification:

Extr. toxic

- Receptor medium:

Risk for the water environment

High

Risk for the land environment

Medium

- Observations:

Acute and chronically ecotoxicity in the dumping area.

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:

Data not available.

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.

Despite dilution, the compound produces toxic mixtures with water.

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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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.

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14. Transport information

Overland (ADR):

Technical name: SODIUM CYANIDE, SOLID

UN 1689 Class: 6.1 CONTAM. MAR PELIG.M.AMB Packaging group: I
(C/E)

By sea (IMDG):

Technical name: SODIUM CYANIDE, SOLID

UN 1689 Class: 6.1 CONTAM. MAR PELIG.M.AMB Packaging group: I

By air (ICAI-IATA):

Technical name: Sodium cyanide, solid

UN 1689 Class: 6.1 CONTAM. MAR PELIG.M.AMB Packaging group: I

Packaging instructions: CAO 673 PAX 666

15. Regulatory information

The substance is subject to Council Regulation (EC) No 1334/2000 of 22 June 2000 setting up a Community regime for the control of exports of dual-use items and technology.

16. Other information

Other precautionary statements

P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing, eye protection or face protection.
P284 Wear respiratory protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor/physician.
P320 Specific treatment is urgent (see on this label).
P321 Specific treatment (see on this label).
P322 Specific measures (see on this label).
P330 Rinse mouth.
P361 Remove/Take off immediately all contaminated clothing.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

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

R-phrases(s):	R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R32 Contact with acids liberates very toxic gas. R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.
S-phrases(s):	S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S29 Do not empty into drains. S28a After contact with skin, wash immediately with plenty of water. S7 Keep container tightly closed. S60 This material and its container must be disposed of as hazardous waste. S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Version and revision date : 4 15.09.2011

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

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.