



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

5642 Sodium Perborate 4-hydrate

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

1.1 Product identifier

Name:

Sodium Perborate 4-hydrate

REACH Registration Number: 01-2119516039-43-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)

2. Identification of dangers

2.1 Classification of the substance or the mixture.

Eye Dam. 1

Acute Toxicity Inhalation cat. 3

STOT SE 3

Repr. 1B

Acute Toxicity Oral cat. 4

Ox. Sol. 3

2.2 Label elements:

Hazard Pictograms



Signal word

Hazard statements

H318 Causes serious eye damage.

H302 Harmful if swallowed.

H335 May cause respiratory irritation.

H360Df May damage the unborn child. Suspected of damaging fertility.

H331 Toxic if inhaled.

H272 May intensify fire; oxidiser.

Precautionary statements

P280 Wear protective gloves, protective clothing, eye protection or face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P261 Avoid breathing dust, fume, gas, mist, vapours or spray.

P271 Use only outdoors or in a well-ventilated area.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

2.3 Other hazards:

No further relevant information available.

3. Composition/information on ingredients

3.1 Substances

Contains di-Sodium tetra-Borate anhydrous.

Name: Sodium Perborate 4-hydrate

Formula: $\text{NaBO}_3 \cdot 4\text{H}_2\text{O}$ M.= 153,86 CAS [10486-00-7]

EC number (EINECS): 231-556-4

EC index number: 005-018-01-X

REACH Registration Number: 01-2119516039-43-XXXX

3.2 Mixtures

0001: di-Sodium tetra-Borate anhydrous

Formula: Na₂B₄O₇ M.= 201,22 CAS [1330-43-4]
EC number (EINECS): 215-540-4 REACH Registration Number: 01-2119490790-32-XXXX

Content: ≤ 2 %

Repr. 1B

Hazard Pictograms



Signal word
Danger

Hazard statements

H360FD May damage fertility. May damage the unborn child.

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:

Wash mouth out immediately. Do not induce vomiting. In the event of suffocation, proceed to provide artificial respiration. In the event of sickness, seek medical assistance.

Inhaling:

Take the person out into the fresh air. In the event of suffocation, proceed immediately to provide artificial respiration. Seek immediate medical assistance.

Contact with the skin:

Wash with plenty of soap and water. Remove contaminated clothing. In the event of irritation, seek medical assistance.

Eyes:

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

5. Firefighting measures

5.1 Extinguishing media:

Water. Atomized water.

5.2 Special hazards arising from the substance or mixture:

Encourages fire to break out. Keep away from combustible substances.

5.3 Advice for firefighters:

Suitable clothing and footwear. Self-contained breathing equipment.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Do not inhale the dust.

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:

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:

Ensure good ventilation and renewal of the air in the premises. Keep the workplace and instruments thoroughly clean. Do not put product back in the containers due to the risk of decomposition through contamination.

7.2 Conditions for safe storage, including any incompatibilities:

Well sealed containers. Dry atmosphere.

Recommended storage temperature: Room temperature. Away from sources of ignition and heat.

7.3 Specific end use(s)

No more relevant data available

8. Exposure controls/personal protection

8.1 Control parameters:

TWA: 7 mg/m³ Workers Dermal, Prolonged exposure: 101 ppm Systemic toxicity
Workers Inhalation, Prolonged exposure: 2 mg/m³

8.2 Exposure controls

Ensure good ventilation and renewal of the air in the premises.

Respiratory protection:

If dust forms, use suitable respiratory protection. Filter P2.

Hand protection:
Use suitable gloves (neopren, PVC)

Eye/face protection:
Use safety glasses.

Individual hygiene measures:
Wash hands before breaks and when the job is done. Do not eat, drink or smoke in the workplace.

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: White
Granulometry: N/A
Odour: N/A
pH: ~10 ((15g/l))
Melting point/freezing point: 65 °C
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: 1,731 g/ml
Solubility: 23,4 g/l in water (20 °C)
Partition coefficient: n-octanol/water:
N/A
Auto-ignition temperature:
N/A
Decomposition temperature: >60 °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:

Moisture sensitive. Heat sensitive.

10.3 Possibility of hazardous reactions

No specific data.

10.4 Conditions to avoid:

Humidity. High temperatures.

10.5 Incompatible materials:

Water. Acids. Bases. Reducing agents. Metallic salts. Organic compounds.
Flammable substances.

10.6 Hazardous decomposition products:

Oxygen

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD50 oral rat : 2.000 mg/kg

LD50 skn rbt : > 2.000 mg/kg

LD50 inh rat : 1.165 mg/l

Dangerous effects for health:

Upon contact with the skin: irritations Through contact with the eyes: irritations If swallowed: nausea vomiting diarrhoea stomach pains If inhaled: Irritations to the mucosae, breathing difficulties. There are no definite objective conclusions regarding the carcinogenic effect of this substance. Risk of mutagenic effect.

12. Environmental information

12.1 Toxicity:

Fish LC50 51 mg/l (96h)

(Daphnia magna) EC50 11 mg/l (48h)

Algae EC50 3,3 mg/l (72h)

12.2 Persistence and Degradability :

Easily biodegradable product.

12.3 Bioaccumulative potential:

Risk = Low

12.4 Mobility in soil :

- Air:

Not applicable.

- Water:

Important solubility and mobility.

- Soil/foots:

Adsorption not significant.

12.5 Assessment PBT and MPMB :

According to Annex XIII of Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH):

Does not meet the criteria for PBT (persistent / bioaccumulative / toxic).

According to Annex XIII of Regulation (EC) No. 1907/2006 concerning the

Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH):

Does not meet the criteria vPvB (very persistent / very bioaccumulative).

12.6 Other adverse effects:

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

Contains a substance included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

15.2 Chemical safety assessment

Not applicable

16. Other information

Other precautionary statements

- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P281 Use personal protective equipment as required.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P311 Call a POISON CENTER or doctor/physician.
P321 Specific treatment (see on this label).
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220 Keep/Store away from clothing/combustible materials.
P221 Take any precaution to avoid mixing with combustibles.
P370+P378 **In case of fire: Use for extinction: CO2, powder or water spray.**
P264 Wash...thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 Rinse mouth.

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In respect of the previous review, changes have been made to the following sections: 1,3

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.