



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

**1692 Sodium Hydroxide 0,5 mol/l \*(0,5N)**

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

**1.1 Product identifier**

Name:

Sodium Hydroxide 0,5 mol/l \*(0,5N)

**Synonym:**

Caustic Soda

**CAS:** [1310-73-2]

**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](mailto: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) n° 1272/2008.**

Skin Corr. 1B

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

**C** Corrosive

R34

## **2.2 Label elements:**

### **Hazard Pictograms**



### **Signal word**

Danger

### **Hazard statements**

H314 Causes severe skin burns and eye damage.

### **Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash...thoroughly after handling.

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

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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**

Aqueous solution

Name: Sodium Hydroxide 0,5 mol/l \*(0,5N)

Formula: NaOH M.= 40,00 CAS [1310-73-2]

EC number (EINECS): 215-185-5

EC index number: 011-002-00-6

## COMPOSITION:

### 0001: Sodium Hydroxide pellets

Formula: NaOH M.= 40,00 CAS [1310-73-2]

EC number (EINECS): 215-185-5

EC index number: 011-002-00-6

REACH Registration Number: 01-2119457892-27-XXXX

**Content:**  $\geq 0,5 \%$   $\leq 2 \%$

### Classification Regulation (CE) n° 1272/2008.

Skin Corr. 1A

Met. Corr. 1

### Hazard Pictograms



### Signal word

Danger

### Hazard statements

H314 Causes severe skin burns and eye damage.

H290 May be corrosive to metals.

### Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

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

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

**C** Corrosive

**R35** Causes severe burns.

## 4. First aid measures

### 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. In the event of irritation, seek 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. Avoid vomiting (there is a risk of perforation). Seek immediate medical assistance. Do not neutralize.

### **5. Firefighting measures**

#### **5.1 Suitable extinguishing media:**

As appropriate to the environment.

#### **5.2 Unsuitable extinguishing media:**

No specific data.

#### **5.3 Special hazards arising from the substance or mixture:**

Incombustible. Upon contact with metals, hydrogen gas may form (there is a risk of explosion).

#### **5.4 Advice for firefighters:**

Suitable clothing and footwear.

### **6. Accidental release measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures:**

Do not inhale the fumes. Avoid contact with the skin, eyes or clothing.

#### **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 with absorbent materials (Panreac General Absorbent, Kieselguhr, etc.) or, if none available, dry sand or earth, and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water. Neutralize with diluted sulphuric acid.

### **7. Handling and storage**

#### **7.1 Precautions for safe handling:**

Limited shelf-life.

#### **7.2 Conditions for safe storage, including any incompatibilities:**

Well sealed containers. Dry atmosphere.

**Recommended storage temperature:** Room temperature. Keep away from acids. Do not store in metal containers.

### **8. Exposure controls/personal protection**

#### **8.1 Exposure controls:**

No special indications.

**8.2 Control parameters:**

VLA-EC(NaOH): 2 mg/m<sup>3</sup>

**8.3 Respiratory protection:**

In the event of fumes forming/aerosols, use suitable respiratory protection. Filter P.

**8.4 Hand protection:**

Use suitable gloves

**8.5 Eye/face protection:**

Use suitable goggles.

**8.6 Individual hygiene measures:**

Remove contaminated clothing. Use suitable work clothing. Wash hands and face before breaks and when the job is done.

**8.7 Environmental exposure controls:**

Fulfill the commitments under local environmental protection legislation.

**9. Physical and chemical properties**

Appearance: liquid

Colour: Colourless

Granulometry: N/A

Odour: Odourless.

pH: ~13,5

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:

Insertar Aquí Grupo de repetición

(20/4) 1,021 g/ml

Solubility: Miscible with water

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 standard ambient conditions (room temperature).

**10.2 Incompatible materials:**

Metals. Light metals Formation of hydrogen (risk of explosion) Acids. Ammoniacal compounds Air

**10.3 Hazardous decomposition products:**

No specific data.

**10.4 Chemical stability:**

No specific data.

**11. Toxicological information****11.1 Acute toxicity:**

LD L0 oral rbt : 500 mg/kg referred to the pure substance

LD50 ipr mus : 40 mg/kg referred to the pure substance

**11.2 Dangerous effects for health:**

If inhaled: Burns in the mucosae. Upon contact with the skin: burns necrosis  
Through contact with the eyes: burns necrosis Risk of blindness (irreversible injury of the optic nerve) If swallowed: Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract. Risk of perforation in the oesophagus and stomach.

**12. Environmental information****12.1 Toxicity:****- EC50 test (mg/l):**

Fish 189 mg/l

Classification:

Highly toxic

**- Receptor medium:**

Risk for the water environment

Medium

Risk for the land environment

Low

**- Observations:**

Ecotoxic for water and land organisms due to the pH deviation. Major acute effects 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:**

#### **12.4 Mobility in soil :**

Data not available.

#### **12.5 Assessment PBT and MPMB :**

Data not available.

#### **12.6 Other adverse effects:**

The treatment is neutralization.

Highly purifiable.

Do not allow it to enter soils or water channels.

Corrosive product, even in diluted form.

### **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 HYDROXIDE SOLUTION

UN 1824 Class: 8 Packaging group: II (E)

By sea (IMDG):

Technical name: SODIUM HYDROXIDE SOLUTION

UN 1824 Class: 8 Packaging group: II

By air (ICAI-IATA):

Technical name: Sodium hydroxide solution

UN 1824 Class: 8 Packaging group: II

Packaging instructions: CAO 855 PAX 851

### **15. Regulatory information**

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

### **16. Other information**

**Other precautionary statements**

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

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.

P321 Specific treatment (see on this label).

P338 Remove contact lenses, if present and easy to do. Continue rinsing.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

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

R-pharse(s):     **R34** Causes burns.

S-pharse(s):     **S45** In case of accident or if you feel unwell,  
seek medical advice immediately (show the lable  
where possible).

**S37/39** Wear suitable gloves and eye/face  
protection.

**S26** In case of contact with eyes, rinse  
immediately with plenty of water and seek  
medical advice.

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.