

Safety Data Sheet  
According to Regulation (EC) 1907/2006



**1323 Phenol 90% \*aqueous solution**

**1. Identification of the substance/preparation and of the company or firm**

**1.1 Identification of the substance or preparation**

Name:

Phenol 90% \*aqueous solution

**Synonym:**

Carbolic Acid, Hydroxybenzene, Oxybenzene, Phenic Acid, Phenyl Hydroxyde, Phenylic Acid

**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 Use of the substance/preparation:**

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**

Classification of the substance or the mixture.

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

Acute Tox. 3

Acute Tox. 3

Acute Tox. 3

Skin Corr. 1B

Muta. 2

## Hazard Pictograms



## Signal word

Danger

## Hazard statements

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled.

H341 Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H373 May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

## Precautionary statements

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

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

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

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.

P308+P313 IF exposed or concerned: Get medical advice/attention.

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

T Toxic

R68

R34

R48/20/21/22

R23/24/25

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

## 3. Component Composition/Information

Name: Phenol 90% \*aqueous solution

Formula: C<sub>6</sub>H<sub>5</sub>OH M.= 94,11 CAS [108-95-2]

EC number (EINECS): 203-632-7

EC index number: 604-001-00-2

**Composition:****0001: Phenol**

Formula: C<sub>6</sub>H<sub>6</sub>O      M.= 94,11    CAS [108-95-2]

EC number (EINECS): 203-632-7

EC index number: 604-001-00-2

**Content:** 90 %

**Classification Regulation (CE) nº 1272/2008.**

Acute Tox. 3

Acute Tox. 3

Acute Tox. 3

Skin Corr. 1B

Muta. 2

**Hazard Pictograms****Signal word**

Danger

**Hazard statements**

H331 Toxic if inhaled.

H311 Toxic in contact with skin.

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H373 May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H341 Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

### Precautionary statements

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash...thoroughly after handling.  
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P281 Use personal protective equipment as required.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
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P308+P313 IF exposed or concerned: Get medical advice/attention.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P311 Call a POISON CENTER or doctor/physician.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P314 Get medical advice/attention if you feel unwell.  
P321 Specific treatment (see on this label).  
P322 Specific measures (see on this label).  
P330 Rinse mouth.  
P338 Remove contact lenses, if present and easy to do. Continue rinsing.  
P361 Remove/Take off immediately all contaminated clothing.  
P363 Wash contaminated clothing before reuse.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

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

**C** Corrosive  
**T** Toxic

**R68** Possible risk of irreversible effects.

**R48/20/21/22** Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

**R34** Causes burns.

**R23/24/25** Toxic by inhalation, in contact with skin and if swallowed.

## 4. 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. Take the product out with cotton wool soaked in polyethylene-glycol 400.

#### **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. Fire-fighting means**

#### **5.1 Suitable fire-extinguishing means:**

Water. Foam.

#### **5.2 Fire-fighting means which must NOT be used:**

No specific data.

#### **5.3 Special risks:**

Flammable. Keep away from sources of ignition. The fumes are heavier than air, so they may spread at floor level. May form explosive mixtures with the air. In the event of fire, toxic fumes may form.

#### **5.4 Protective equipment:**

Suitable clothing and footwear.

### **6. Measures to be taken in the event of accidental spillage**

#### **6.1 Individual precautions:**

Avoid contact with the skin, eyes or clothing.

#### **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 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.

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

#### **7.1 Handling:**

No special indications.

## **7.2 Storage:**

Well sealed containers. Dry atmosphere. Away from light. In well ventilated premises. Keep away from flammable substances, sources of ignition and heat. Room temperature. Restricted access, only authorized to technicians. Do not store in metal containers.

## **8. Staff exposure/protection controls**

### **8.1 Technical protective measures:**

No special indications.

### **8.2 Exposure limit control:**

VLA-ED: 2 ppm - 20 mg/m<sup>3</sup> dermal resorption

### **8.3 Respiratory protection:**

In the event of fumes forming/aerosols, use suitable respiratory protection. Filter A. Filter P3.

### **8.4 Hand protection:**

Use suitable gloves

### **8.5 Eye protection:**

Use suitable goggles.

### **8.6 Individual hygiene measures:**

Remove contaminated clothing. Use complete protective equipment. Wash hands and face before breaks and when the job is done. Do not eat, drink or smoke in the workplace.

### **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: Characteristic.

pH:

N/A

Melting point/freezing point: N/A

Initial boiling point and boiling range: 182 °C

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: (20/4) 1,07

Solubility: 90 g/l in water 20 °C

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature: 605 °C

Decomposition temperature: N/A

Viscosity: N/A

## **10. Stability and reactivity**

### **10.1 Conditions which should be avoided:**

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

### **10.2 Matter which should be avoided:**

Aluminium. Aldehydes. Halogens. Nitrites. Nitrates. Hydrogen peroxide. Ferric compounds. Salts of oxyhalogenic acids. Peroxides. Rubber.

### **10.3 Hazardous decomposition products:**

No specific data.

### **10.4 Complementary information:**

Hygroscopic.

## **11. Toxicological information**

### **11.1 Acute toxicity:**

LD L0 oral man : 140 mg/kg

LD L0 oral hmn : 14 g/Kg

LD50 oral rat : 317 mg/kg

LD50 skn rbt : 850 mg/kg

LD50 skn rat : 669 mg/kg

LC50 inh rat : 316 mg/m3

LD50 ipr mus : 180 mg/kg

### **11.2 Dangerous effects for health:**

Upon contact with the skin: burns Risk of cutaneous absorption. Through contact with the eyes: burns Risk of blindness (irreversible injury of the optic nerve)

Systemic effects: effects on the central nervous system cardiovascular disorders blood alterations sensitization allergic reaction If fumes inhaled: Irritations to the mucosae coughing breathing difficulties Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

## **12. Environmental information**

### **12.1 Toxicity:**

12.1.1 - EC50 test (mg/l):

Bacteria (Photobacterium phosphoreum) 25 mg/l

Classification:

Extr. toxic

Crustaceans (Daphnia magna) 100 mg/l

Classification:

Extr. toxic

Fish (C. auratus) 44,5 mg/l

Classification:

Extr. toxic

12.1.2. - Receptor medium:

Risk for the water environment

High

Risk for the land environment

High

12.1.3. - Observations:

High toxicity.

## **12.2 Persistence and Degradability :**

12.2.1 - Test:

COD 2,3 g/g

BOD5 = 1,88 g/g

ThOD 2,26 mg/g

12.2.2. - Biotic degradation classification:

BOD5/COD

Biodegradability

High, over 1/3

12.2.3. - Abiotic degradation depending on pH:

12.2.4. - Observations:

Biodegradable product.

## **12.3 Bioaccumulative potential:**

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk

12.3.3. - Observations:

Non-bioaccumulable product.

## **12.4 Mobility in soil :**

Repartition: log P(oct)= -1,46

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

Data not available.

## **12.6 Other possible effects on the environment:**

Water-pollutant product.

Bactericide effect.

Do not allow it to enter soils or water channels.

## **13. 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.

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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. Information concerning transport**

Overland (ADR):

Technical name: PHENOL SOLUTION

UN 2821 Class: 6.1 Packaging group: II (D/E)

By sea (IMDG):

Technical name: PHENOL SOLUTION

UN 2821 Class: 6.1 Packaging group: II

By air (ICAI-IATA):

Technical name: Phenol solution

UN 2821 Class: 6.1 Packaging group: II

Packaging instructions: CAO 662 PAX 654

## **15. Regulatory information**

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

## **16. Other information**

### **Other precautionary statements**

- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P281 Use personal protective equipment as required.
- P202 Do not handle until all safety precautions have been read and understood.
- P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P201 Obtain special instructions before use.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash...thoroughly after handling.
- P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.
- P310 Immediately call a POISON CENTER or doctor/physician.
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- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P314 Get medical advice/attention if you feel unwell.
- P321 Specific treatment (see on this label).
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- P330 Rinse mouth.
- P338 Remove contact lenses, if present and easy to do. Continue rinsing.
- P361 Remove/Take off immediately all contaminated clothing.
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- 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-phrase(s):     **R68** Possible risk of irreversible effects.  
                      **R34** Causes burns.  
                      **R48/20/21/22** Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.  
                      **R23/24/25** Toxic by inhalation, in contact with skin and if swallowed.

S-phrase(s):     **S36/37/39** Wear suitable protective clothing, gloves and eye/face protection.  
                      **S28a** After contact with skin, wash immediately with plenty of water.  
                      **S26** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
                      **S24/25** Avoid contact with skin and eyes.  
                      **S45** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Review number and date: 4 15.09.2011

Date published: 15.09.2011

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.