

Safety Data sheet

According to Directive 1907/2006

3825 PHENOL 90%, w/w AQUEOUS SOLUTION GMP

Creation Date: 17/02/2015 Revision date: 31/05/2017

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

Identification of the product

Catalogue No: 3825 Product name: PHENOL 90%, w/w AQUEOUS SOLUTION GMP Use of the substance: Analysis and chemical-pharmaceutical production. REACH registration Nr.: 01-2119471329-32-0000

Company/undertaking identification

QUALITY CHEMICALS, SL - C/Fornal 35. Pol. Ind. Can Comelles Sud 08292 ESPARREGUERA ESPAÑA Tel. 937709730 Fax. 937709337 e-mail: dtecnica@qualitychemicals.com

Emergency telephone No.

Quality Chemicals S.L. Tel. +34 937709730 Only in business hours. Instituto Nacional de Toxicología *Madrid* Tel:915620420 Chemtrec: 800-424-9300

2. Hazards identification

Labelling in accordance with directive 1907/2006



R-phrases

23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

34 Causes burns.

68 Possible risks of irreversible effects.

S-phrases

24/25 Avoid contact with skin and eyes.

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

28.6 After contact with skin, wash immediately with plenty of polyethylene glycol 400 and afterwards clean with soap and water.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately. (Show the label where possible)

Labelling in accordance with directive 1272/2008



**H-phrases**

314 Causes severe skin burns and eye damage.
341 Suspected of causing genetic defects.
331 Toxic if inhaled.
311 Toxic in contact with skin.
301 Toxic if swallowed.
373 May cause damage to organs through prolonged or repeated exposure.

P-phrases

280 Wear protective gloves/protective clothing/eye protection/face protection.
302+352 IF ON SKIN: Wash with plenty of soap and water.
301+330+331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
309 IF exposed or if you feel unwell:
310 Immediately call a POISON CENTER or doctor/physician.
305+351 If in eyes: Rinse cautiously with water for several minutes.
338 Remove contact lenses, if present and easy to do. Continue rinsing.

Signal word : DANGER

TOXIC

R-phrases:

Toxic by inhalation, in contact with skin and if swallowed.

Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin

Causes burns.

Possible risks of irreversible effects.

3. Composition/information on ingredients

Short hazard description

PHENOL (CAS-Nr. 108-95-2, EINECS-Nr. 203-632-7) > 89%

R-Phrases: 23/24/25; 48/20/21/22; 34; 68

TOXIC

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

CAS-No.: 108-95-2

Molecular Weight: 94,11

Chemical formula: C₆H₅OH

EC-Index-No.: 604-001-00-2

EC-No.: 203-632-7

R-phrases 23/24/25; 48/20/21/22; 34; 68

For more information about the R-Phrases text you can consult the paragraph 16

4. First aid measures

After inhalation:

Fresh air

If necessary, artificial respiration

Give oxygen by specialized people

Call the physician

After skin contact:

Extract the substance by means of cotton impregnated with polietilenglicol 400

Rinse with abundant water (or have a shower)

Get rid of the contaminated clothes

Call the physician

After eye contact:

Rinse with abundant water, keeping eyelids open (at least 10 min)

Call the ophthalmologist

After swallowing:

Drink lots of water

To cause vomit

Call the doctor

Later application: Activated charcoal (20-40 gr.. of suspension to 10 %)

5. Fire-fighting measures

Suitable extinguishing media:

Water

Dust

Foam

Carbon dioxide

Special risks:

Steam heavier than air

Ambient fire may liberate hazardous vapours

Possible formation of explosive mixtures with air

Special protective equipment for fire fighting:

Remain in the risk area only if provided with independent artificial respiratory systems.

In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

Wear suitable protective clothing

Other information:

Avoid the penetration of the extinction water in superficial or subterranean aquifers.

6. Accidental release measures

Person-related precautionary measures:

Not to inhale steam/aerosols

Avoid contact with the substance

Ventilation in closed spaces

Procedures for cleaning/absorption:

To gather with absorbents

To come to the elimination of the remainders

Rinse.

Environmental protection measures:

Do not send it to the sewerage system

7. Handling and storage

Handling:

Work under display cabinet extractor

Do not inhale the substance

Storage:

Well closed

In well-ventilated place

Dry place.

Protected from light.

Only authorized access to specialized technicians

8. Exposure controls/personal protection

Exposure limit control

PHENOL

TLV-TWA: 2 ppm (8 mg/m³)

Personal protective equipment:

Respiratory protection:

Necessary when steam/aerosols are generated

Hand protection:

Protection gloves:

Polychloroprene

Eye protection:

Needed

Skin and body protection:

Suitable protective clothing

Other protective equipment:

Change immediately contaminated clothes

Recommendable preventive protection of the skin

Wash hands and face when the work is finished

Neither to eat, nor to drink, nor to smoke during the work

Work under extractor

Do not inhale the substance

Fulfill the commitments under local environmental protection legislation

9. Physical and chemical properties

Physical state: Liquid

Colour: Colourless

Odour: Characteristic

pH value: 5 (50 g/l H₂O)

Boiling point: 182°C

Density (g/cm³): 1,070

Solubility: Soluble in water

log P(ow): 1,46 (pure substance)

10. Stability and reactivity

Further information:

To avoid heating.

Incompatible with various metals and metal alloys.

Incompatible with rubber and various plastics.

Forms explosive mixtures with air on intense heating.

11. Toxicological information

Acute toxicity:

LD50 (oral, rat): 317 mg/kg. LDLo (oral, human): 140 mg/kg. (puresubstance)

After eye contact:

Burns
Risk of blindness
After skin contact:
Burns
Risk of cutaneous absorption
After inhalation:
Irritations of the mucous membranes
Coughing
Dyspnoea
Damage of respiratory tract
After long contact:
Due to absorption:
Inebriation
Cardiovascular disorders
Headache
Unconsciousness
Blood alterations
Drowsiness
Respiratory paralysis
Death
Impaired function of heart
Hepatic problems
Kidney problems
After swallowing:
Burns in mouth
Burns in throat
Burns in oesophagus
Burns in gastrointestinal tract
Further toxicological information:
Possible mutagenic effect in humans.
The suspicion is based on proven damage to the genetic material in the somatic cells of man and animal
The precautions adapted for chemical agents must be observed
NO indication of teratogenic properties
Irreversible damage posible

12. Ecological information

Fishes: *Onchorhynchus mykiss*: LC50: 5,4 mg/l/96h (pure substance)
Daphnia: *Daphnia magna*: EC50: 10 mg/l/48h (pure substance)
Algae: *Selenastrum capricornutum*: IC50: 66 mg/l/5d (pure substance)
Bacteria: *Pseudomonas putida*: EC5: 64 mg/l/16h (pure substance)
Log P(ow): -1,46 (pure substance)
Degradability: Readily biodegradable
Bioaccumulation: No bioaccumulation is to be expected (log Pow < 1)
Other harmful effects:
Toxic effect on fish and plankton
Forms corrosive mixtures with water even if diluted
Hazard for drinking water supplies
Change in the flavour characteristics of fish protein
Do not allow to enter waters, waste water, or soil

13. Disposal considerations

Product:

Dispose as regulated in the community countries by local regulations.
Please contact with the suitable authority in each case (Public Administration or company specialized in

Packaging:

Product packaging disposal must be disposed of in compliance with the respective local regulations. For contaminated packaging the same measures must be adopted as for the contaminated product. Not contaminated packaging must be disposed of as domestic residues or recycled material. European Directive 94/62/EC of 20 December 1994 on packaging and packaging waste

14. Transport information

Overland transport ADR/RID

UN: 2821
Class: 6.1
Packaging group: II
Correct technical name: PHENOL SOLUTION

Sea transport IMDG

UN: 2821
Class: 6.1/II
Packaging group: II
Correct technical name: PHENOL SOLUTION

Air transport ICAO-IATA-DGR

UN: 2821
Class: 6.1
Packaging group: II
Correct technical name: PHENOL SOLUTION
CAO: 662
PAX: 654

15. Regulatory information

16. Other information

Full text of R phrases mentioned in sections 2 and 3

23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

34 Causes burns.

68 Possible risks of irreversible effects.

The information contained herein is based on the present state of our knowledge.

It characterizes the product with regard to appropriate safety precautions. It does not represent a guaranty of the properties of the product.