Scientific Laboratory Supplies - Safety Data Sheet

CHE2834

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1 Revision date: 16 April 2021
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Section 1. Identification

1.1 Product Identifier CHE2834

Product Name PHENOL SOLUTION 80% w/w 2.5L.

CAS Number 108-95-2

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

Molecular Formula C, H, OH =94.11

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier Scientific Laboratory Supplies

SCIENTIFIC LABORATORY SUPPLIES

Unit 6, Foresters Avenue Fairham Business Park

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UNITED KINGDOM

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(24hr) 112

(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Acute toxicity, category 3 (oral)

H301: Toxic if swallowed.

Acute toxicity, category 3 (dermal)

H311: Toxic in contact with skin.

Skin corrosion/irritation, category 1B H314: Causes severe skin burns and eye damage.

Acute toxicity, category 3 (inhalation) H331: Toxic if inhaled.

Germ cell mutagenicity, category 2 H341: Suspected of causing genetic defects.

Spec target organ tox - repeat, category 2 H373: May cause damage to organs through prolonged or repeated exposure.

Hazard to aquatic environment, category 2 H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms









Hazard Statements

Suspected of causing genetic defects. Toxic if inhaled. Toxic in contact with skin. Toxic if swallowed. May cause damage to organs through prolonged or repeated exposure. Causes severe skin burns and eye damage. Toxic to aquatic life with long lasting effects.

Precautionary Statements

Do not breathe fumes. Wear protective gloves / protective clothing / eye protection / face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician. Avoid release to the environment.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Phenol	108-95-2 203-632-7 01-2119471329-32-XXXX		80%	Acute Tox. 3 (O), Acute Tox. 3 (D), Skin Corr. 1B, Acute Tox. 3 (I), Muta. 2, STOT RE 2, Aquatic Chronic 2	

Section 4. First Aid

4.1 Description of first aid measures

Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL Eyes

ATTENTION URGENTLY.

Skin Remove contaminated clothing immediately avoiding contamination of unaffected areas. Swab contaminated skin

with a mixture of 70 parts polyethylene glycol and 30 parts alcohol. Alternatively use glycerol or polyethylene

glycol, or if solvents are not available flush with water for at least 10 minutes. OBTAIN MEDICAL

ATTENTION URGENTLY.

Inhalation Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If

breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery

position. OBTAIN MEDICAL ATTENTION.

If conscious give plenty of water to drink. Do not induce vomiting. Convulsions may occur and cause Ingestion

unconsciousness. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION

URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

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4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media Water spray, alcohol resistant foam, dry powder or carbon dioxide. Use water spray to keep fire exposed

containers cool.

Unsuitable Media Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards Vapour-air mixtures are explosive.

5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective equipment. Evacuate

area immediately. Do not allow general use of area until it is safe to do so.

6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage If molten allow to solidify first. Contain and absorb on inert material. Transfer absorbent to salvage container for

removal. Wash area down with copious amounts of water.

Minor Spillage Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with

copious amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage. Protect from direct sun and store away from sources of ignition. Keep containers closed when not in use. Keep well separated from oxidising agents.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

I	Component	CAS No	Concentration	Workplace Exposure Limits				
I				Long Term (8hr TWA)		Short Term 15min period)		
	Phenol	108-95-2	80%	2.0 ppm	8.0 mg/m-3	4.0 ppm	16.0 mg/m-3	

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

Respiratory Protection Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well

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maintained chemical cartridge organic vapour respirator, or use self contained breathing apparatus.

Hand Protection Use PVC gauntlets.

Eye Protection Use chemical full face shield.

Skin Protection Wear PVC oversuit.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Clear colourless to pale coloured liquid or frozen mass.

Odour Distinctive, sweet tarry odour and burning taste.

pH 6 @ 20° C Boiling Point Aqueous solution

Melting Point 5°C

Flash Point 80°C (Closed cup)

Upper Flammable Limit
Lower Flammable Limit
Auto Ignition
Explosive Properties
Oxidising Properties
No.

8.6%
1.7%
715°C
Slight.
No.

Vapour Pressure 0.35mmHg @ 25°C

Relative Density 1.1320

Water Solubility Completely soluble in water.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

10.3 Possibility of hazardous

reactions

No data available.

10.4 Conditions to Avoid Hot surfaces, naked flames or other sources of ignition.

10.5 Incompatable Materials Acetaldehyde. Aluminium chloride plus nitro benzene or nitromethane. Sodium nitrite.

10.6 Hazardous Decomposition

Products

None unusual. Burning will produce smoke, carbon monoxide and/or carbon dioxide.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes The solid, molten liquid and solutions are irritating to the eyes. Damage can range from severe irritation and

corneal scarring to permanent blindness.

Skin Toxic when absorbed through skin. The solid, molten liquid and solutions will cause severe burns. Because of its

local anaesthetic effect, skin burns may be painless. Even small amounts may lead rapidly to a state of collapse. Symptoms include, profuse sweating, vomiting, cyanosis, convulsions, leading to coma and respiratory failure.

Death can occur from exposure to as little as 400 cm2 of unprotected skin.

LD50 Skin 660mg/kg Rabbit

Ingestion Toxic if swallowed. Causes severe corrosion of the mouth, throat and gastro-intestinal tract. Ingestion may prove

atal.

LD50 Oral 340mg/kg Rat

Inhalation Toxic by inhalation. Exposure to vapour concentrations above the occupational exposure limits will produce

irritation of the eyes, nose, throat and respiratory tract. High concentrations of vapour may cause digestive and

nervous disorders, pulmonary oedema or liver and kidney failure.

LD50 Inhalation >900mg/m3 Rat (8 hours)

TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity May be a mutagen.

Reproductive Effects An increased incidence of preimplantation loss and early postnatal deaths have been reported in the offspring of

rats exposed to the vapour throughout pregnancy.

Section 12. Ecological

12.1 Toxicity Toxic to aquatic life with long lasting effects.

LC50 Algal 61.1mg/l Algae (96 hours)
LC50 Crustacea 3.1mg/l Daphnia (48 hours)

LC50 Fish 8.9mg/l Rainbow Trout (96 hours)

12.2 Persistence and degradability

stence and No data available.

12.3 Bioaccumulative potential No data available.12.4 Mobility in soil No data available.

12.5 Results of PBT & vPvB

assessment

Assessment not required.

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Dispose of in a licensed incinerator. Do not dispose of as domestic waste. Never dispose of into water courses or

sewerage systems.

Contaminated Packaging Clean out with a weak sodium hydroxide solution then wash out thoroughly with water. Use a licensed waste

disposer.

Section 14. Transport Information

14.1 UN Number 2821

14.2 Proper Shipping Name Phenol solution

14.3 Transport classes

UN classification 6.1
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 60
Tunnel Restriction Code D/E

14.4 Packing Group II

14.5 Environment hazards See section 12.

14.6 Special precautions for No special precautions required.

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14.7 Transport in bulk Not transported in bulk.



Section 15. Regulatory Information

$15.1\ Safety, health\ and\ environment\ regulations\ specific\ for\ subtance/mixture.$

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Acute toxicity, category 3 (oral); Acute toxicity, category 3 (dermal); Skin corrosion/irritation, category 1B; Acute

toxicity, category 3 (inhalation); Germ cell mutagenicity, category 2; Spec target organ tox - repeat, category 2;

Hazard to aquatic environment, category 2

Signal word Danger

Hazard Pictograms









Hazard Statements H341, H331, H311, H301, H373, H314, H411

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

aquatic life with long lasting effects.

Precautionary Statements P260, P280, P303+P361+P353, P305+P351+P338, P309+P311, P273

Do not breathe fumes. Wear protective gloves / protective clothing / eye protection / face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician. Avoid release to the

environment.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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