

SOUTHERN GROUP LABORATORY LIMITED

SAFETY DATA SHEET

SECTION 1.	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
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1.1 Product identifier

Product name 10% Phenol Solution

SGL Product code 0615

This product is a mixture.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Reagent for laboratory analysis

Uses advised against No information on uses against available

1.3. Details of the supplier of the safety data sheet

Supplier Southern Group Laboratory,
Cavendish Courtyard, Sallow Road,
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SECTION 2.	HAZARDS IDENTIFICATION
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2.1 Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008

Physical hazards

Based on available data, no classification met

Health hazards

Germ Cell Mutagenicity (category 2): H341

Acute Toxicity – Oral (category 4): H302

Acute Toxicity – Inhalation (category 4): H332

Specific Target Organ Toxicity (STOT), Repeated Exposure (RE), (category 2): H373

Skin Corrosion (category 1): H314

Environmental hazards

Based on available data, no classification met

For the full text of the H-Statements mentioned see Section 16.

2.2. Label elements

Pictogram



Signal word

Danger

Hazard statements

H341: Suspected of causing genetic defects

H302: Harmful if swallowed

H332: Harmful if inhaled

H373: May cause damage to organs through prolonged or repeated exposure

H314: Causes severe skin burns and eye damage

Precautionary statements

P201: Obtain special instructions before use.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264: Wash hands thoroughly after handling.
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+P330+P331+P310: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON Center or doctor/physician.
P303+P361+P353+P310: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower. Immediately call a POISON Center or doctor/physician.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON Center or doctor/physician.
P308+P313: IF exposed or concerned: Get medical advice / attention.
P312: Call a POISON CENTER or doctor / physician if you feel unwell.
P330: Rinse mouth.
P363: Wash contaminated clothing before reuse.
P501: Dispose of contents/container in accordance with national regulations.

2.3. Other hazards

None

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS
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3.1. Mixtures

Name	EC No.	CAS-No.	Concentration	Classification
Phenol	203-632-7	108-95-2	10% v/v	Germ cell mutagenicity, 2: H341 Acute tox. 3, oral: H301 Acute tox. 3, dermal: H311 Acute tox. 3, inhalation: H331 STOT (RE), 2: H373 Skin corrosion, 1B: H314

Composition comments The data shown are in accordance with Regulation (EC) No. 1272/2008.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

Inhalation Immediately remove from exposure to fresh air and keep at rest in a position comfortable for breathing. In severe case and/or if experiencing respiratory symptoms, call a POISON CENTER or doctor/physician.

Ingestion Do NOT induce vomiting. Wash out mouth thoroughly with water. Immediately call a POISON CENTER or doctor/physician.

Skin contact Wash off thoroughly with plenty of soap and water if on skin and/or hair. Remove contaminated clothing immediately and wash before re-use. Immediately call a POISON CENTER or doctor/physician.

Eye Contact Remove contact lenses, if present and easy to do. Immediately irrigate thoroughly with water for at least 15 minutes. Immediately call a POISON CENTER or doctor/physician.

Self Protection of the first aider Wear gloves (nitrile rubber recommended). Wash hands thoroughly after handling.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3. Indication of any immediate attention and special treatment needed

None known.

Notes for doctor No specific recommendations.

SECTION 5.	FIRE – FIGHTING MEASURES
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5.1. Extinguishing media

Suitable extinguishing media Water fog, foam, carbon dioxide (CO₂), dry powder

Unsuitable extinguishing media None known

Prevent fire fighting media from entering watercourses or ground water.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Toxic products may be liberated by fire.

5.3. Advice for firefighters

Protective actions during firefighting Wear self contained breathing apparatus (SCBA) and prevent skin contact.

SECTION 6.	ACCIDENTAL RELEASE MEASURES
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6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective clothing as described in Section 8 of this safety data sheet. Avoid breathing vapours or aerosols. Avoid contact. Provide adequate ventilation.

6.2. Environmental precautions

Must not be released into the environment.

6.3. Methods and material for containment and cleaning up

Collect spillage using suitable non-combustible material. Seal material in closed container avoiding the generation of aerosols or vapours. Wear personal protective clothing as recommended in Section 8. Cover drains to avoid releasing into environment. Dispose as recommended in Section 13.

6.4. Reference to other sections

Section 8 for protective measures.
Section 13 for disposal considerations.

SECTION 7.	HANDLING AND STORAGE
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7.1 Precautions for safe handling

Wear personal protective clothing. Avoid contact with skin, eyes and clothing. Avoid formation of aerosols or vapours. Ensure adequate ventilation, an extractor hood is recommended. Change contaminated clothing. Wash hands after working with material. Do NOT eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Store according to label requirements. Keep closed.

7.3 Specific end use(s)

Use as a chemical reagent.

SECTION 8.	EXPOSURE CONTROLS/PERSONAL PROTECTION
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8.1 Control parameters

Component	CAS No	Long Term Exposure Limit (8 hr TWA Reference Period)	Short Term Exposure (15 Min Reference Period)	Basis	Comments
Phenol	108-95-2	7.8 mg/m ³ 2 ppm	16 mg/m ³ 4 ppm	UK. EH40 Workplace Exposure Limits	Can be absorbed through the skin. Dermal absorption may lead to systemic toxicity.

8.2 Exposure controls

Engineering measures

Do not inhale vapours and/or aerosols. Handle in well ventilated area, for example, extractor hood. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Protective equipment



Eye/face protection

Safety goggles (tightly fitting) complying with Standard EN166.

Hand protection

Disposable nitrile rubber gloves complying with EC Directive 89/686/EEC and Standard EN374
Glove thickness of 0.11mm
See manufacturer's recommendations for break through times
Material tested: Not applicable
Gloves must be removed and replaced if any signs of degradation are noticed.

Other skin and body protection Long sleeved clothing.

Hygiene measures

Wash hands immediately after use.

Respiratory protection

Required if vapour/aerosols are generated. Self contained breathing apparatus.

SECTION 9.	PHYSICAL AND CHEMICAL PROPERTIES
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9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless
Odour	No data available
Odour threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	
Lower explosion limit (VOL-%)	No data available
Upper explosion limit (VOL-%)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility(ies)	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available

9.2. Other information

None

SECTION 10.	STABILITY AND REACTIVITY
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10.1 Reactivity

No data available.

10.2 Chemical stability

No data available.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

SECTION 11. TOXICOLOGICAL INFORMATION
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11.1 Information on toxicological effects

The acute toxicity data are based on the mixture.

Acute oral toxicity ATE_{mix} Method	Acute Tox 4: H302 Harmful if swallowed. >300 - <2000 mg/kg Calculation
Acute dermal toxicity ATE_{mix} Method	Classification criteria are not met. >2000 mg/kg Calculation
Acute inhalation toxicity ATE_{mix} (dust/mist) Method	Acute Tox 4: H332 Harmful if inhaled. >1 - <5 mg/l Calculation
Skin corrosion/irritation	Skin Corrosion (category 1): H314 Causes severe skin burns and eye damage.
Serious eye damage/irritation	Mixture causes severe eye damage.
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	Germ cell mutagenicity (category 2): H341 Suspected of causing genetic defects.
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT single exposure	No data available
STOT repeated exposure	Specific Target Organ Toxicity (STOT), Repeated Exposure (RE), (category 2): H373 May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	No data available

11.2 Additional information

No data available.

SECTION 12.	ECOLOGICAL INFORMATION
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12.1 Toxicity

No information available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

SECTION 13.	DISPOSAL CONSIDERATIONS
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13.1 Waste treatment methods

Dispose of in accordance with applicable local and national regulations.

SECTION 14.	TRANSPORT INFORMATION
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Land transport (ADR/RID) / Sea transport (IMDG) / Air transport (ICAO-TI/IATA-DGR)

14.1 UN number	2821
14.2 UN proper shipping name	PHENOL SOLUTION
14.3 Transport hazard class(es)	6.1
14.4 Packing group	II
14.5 Environmental hazards	No
14.6 Special precautions for user	Yes

Tunnel restriction code D/E.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable, packaged goods.

SECTION 15.	REGULATORY INFORMATION
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15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of Substances and mixtures (as amended).

15.2 Chemical safety assessment

No data available.

SECTION 16.	OTHER INFORMATION
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16.1 Relevant H- and EUH-phrases (number and full text)

H301: Toxic if swallowed
H302: Harmful if swallowed
H311: Toxic in contact with skin
H314: Causes severe skin burns and eye damage
H331: Toxic if inhaled
H332: Harmful if inhaled
H341: Suspected of causing genetic defects
H373: May cause damage to organs through prolonged or repeated exposure

16.2 Additional information

The above information is based on present knowledge, but does not purport to be inclusive and should only be used as a guide. Southern Group Laboratory shall not be held liable for any damage resulting from handling or from contact with the above product.

The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made up material.

16.3 Revision summary

Changes to this issue Updated to format compliant with Regulation (EC) No 1907/2006 (REACH), the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) and Regulation (EC) No 1272/2008 (CLP).

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END OF SAFETY DATA SHEET