
Safety Data Sheet

Product Name	Liquified Phenol
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Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification:**Product Description:** Liquified Phenol**Synonyms:** Carboic acid; Hydroxybenzene; Phenylic acid**CAS-No:** 108-95-2**EC-No.:** 203-632-7**Molecular Formula:** C₆H₅OH (aqueous)

REACH Registration No: 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) No 1907/2006, the annual tonnage does not require a registration, or the registration is envisaged for a later registration deadline.

1.2. Relevant identified uses of the substance or mixture and uses advised against:**Recommended Use:** Laboratory chemicals, Manufacture of Substances, used as a pharma excipients**1.3. Details of the supplier of the safety data sheet:**

- Company** **Finar Limited**
184-186/P, Chacharwadi Vasna,
Sarkhej-Bavla Highway,
Ta.: Sanand, Dist.: Ahmedabad-382110, Gujarat, India
Email: info@finarchemicals.com
Web: www.finarchemicals.com
- E-Mail Address** safety.finar@aceto.com; info.finar@aceto.com

1.4. Emergency Telephone Number:

For Emergency contact on: +91 - 2717 - 616 717

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SECTION 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture:****Classification according to Regulation (EC) No 1272/2008**

Acute toxicity, Oral (Category 3), H301

Acute toxicity, Inhalation (Category 3), H331

Acute toxicity, Dermal (Category 3), H311

Skin corrosion (Sub-category 1B), H314

Serious eye damage (Category 1), H318

Germ cell mutagenicity (Category 2), H341

Specific target organ toxicity - repeated exposure (Category 2), Nervous system, Kidney, Liver, Skin,

H373 Long-term (chronic) aquatic hazard (Category 2), H411

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

2.2. Label Elements:**Labelling according to Regulation (EC) No 1272/2008****Pictogram****Signal Word: Danger****Hazard statements**

H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled.

H314 Causes severe skin burns and eye damage.

H341 Suspected of causing genetic defects.

H373 May cause damage to organs (Central nervous system, Kidney, Liver, Skin) through prolonged or repeated exposure.

Precautionary statements**Prevention**

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

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

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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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 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

Reduced labelling (≤ 125 ml)

Hazard pictograms



Signal word: **Danger**

Hazard statements

H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled.

H314 Causes severe skin burns and eye damage.

H341 Suspected of causing genetic defects.

H373 May cause damage to organs (Nervous system, Kidney, Liver, Skin) through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use

P273 Avoid release to the environment

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

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

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 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

2.3. Other Hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and

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toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Vesicant., Rapidly absorbed through skin.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. **Substances:** Liquified Phenol

3.2. **Mixtures:**

Component	CAS-No	EC-No.	Weight %
Liquified Phenol	108-95-2	203-632-7	>99.0%

SECTION 4: FIRST AID MEASURES

4.1. **Description of first aid measures:**

- **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

- **If inhaled**

Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

- **If Contact with skin**

Rinse out with polyethylene glycol 400 or a mixture of polyethylene glycol 300/ethanol 2:1 and wash with plenty of water. If neither is available wash with plenty of water. Immediately take off contaminated clothing. Call a physician immediately.

- **In case of eye contact**

Rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

- **If swallowed**

Give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible. Do not attempt to neutralize.

4.2. **Most important symptoms and effects, both acute and delayed:**

Irritation and corrosion, Cough, Shortness of breath, Drowsiness, Dizziness, inebriation, cardiovascular

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disorders, Headache, confusion, respiratory arrest, collapse, Unconsciousness, death.

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

No data available

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media:

Suitable Extinguishing Media- Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media- Do Not Use Water Jet.

5.2. Special hazards arising from the substance or mixture:

Combustible.

Vapours are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3. Advice for firefighters:

Special protective equipment for firefighters:

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further Information:

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8.

6.2. Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up:

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Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4. Reference to other sections:

For disposal see Sections 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling:

Use only under a chemical fume hood. Wear personal protective equipment. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Do not ingest. Keep away from open flames, hot surfaces and sources of ignition.

7.2. Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Handle and store under inert gas. Light sensitive.

7.3. Specific end use(s):

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Can be absorbed through the skin.

Time Weighted Average (TWA): 5 ppm

19 mg/m³

8.2. Exposure Controls:

- **Appropriate Engineering Controls:**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

- **Personal Protective Equipment:**

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye & Face Protection-

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Tightly fitting safety goggles

Hand Protection

Full contact:

Glove Material: Vitron®
Glove Thickness: 0.70 mm
Break Through Time: >480 min

Splash contact:

Glove Material: Vitron®
Glove Thickness: 0.70 mm
Break Through Time: >480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 890 Vitoject® (full contact), KCL 890 Vitoject® (splash contact). The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet (>,<) supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

- **Other Protective equipment**

Flame retardant antistatic protective clothing.

- **Respiratory Protection**

required when dusts/vapours/aerosols are generated.

Recommended Filter type: Filter A-(P3)

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

- **Environmental Exposure Controls**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

- **Appearance:** Colorless
- **Physical State:** Liquid

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- **Odor:** Sweet
- **pH:** 6
- **Melting Point:** 42.8 °C
- **Critical Temperature:** No data available
- **Autoignition Temperature:** 715 °C
- **Vapor Pressure:** 0.35 mmHg at 25 °C
- **Vapor Density:** 3.2
- **Volatility:** No data available
- **Bulk Density:** No data available
- **Odor Threshold:** No data available
- **Water/Oil Dist. Co eff.:** No data available
- **Ionicity (in Water):** No data available
- **Evaporation Rate:** < 0.01 (Butyl Acetate = 1.0)
- **Boiling Point/Range:** 182 °C
- **Flammability or explosive limits:**
Upper: 8.6 vol %
Lower: 1.8 vol %
- **Flash Point:** 79.4 °C
- **Specific Gravity:** 1.0576g/ml
- **Solubility:** Slightly soluble in water

9.2. Other information:

- **Molecular Formula:** C₆H₅OH (aqueous)
- **Molecular Weight:** 94.11 g/mol

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity:**

No data available

10.2. Chemical stability:

Hygroscopic. Light sensitive.

10.3. Possibility of hazardous reactions:

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Exothermic reaction with:

Aluminium, Aldehydes, halogens, hydrogen peroxide, iron(III) compounds, Oxidizing agents, Strong acids, Strong bases, formaldehyde

Risk of explosion with:

Nitrites, nitrates, salts of oxyhalogenic acids, peroxi compounds

10.4. Conditions to avoid:

Incompatible products. Heat, flames and sparks. Exposure to moisture. Exposure to light.

Keep away from open flames, hot surfaces and sources of ignition.

10.5. Incompatible materials:

Acids, Bases, Strong oxidizing agents, Halogens, lead, Metals.

10.6. Hazardous decomposition products:

Carbon monoxide (CO), Carbon dioxide (CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:**Acute Oral toxicity**

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

Acute Inhalation Toxicity

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:., damage of respiratory tract

Acute Dermal Toxicity

LD50 Rat: 660 mg/kg

OECD Test Guideline 402

Skin corrosion/irritation

In vitro study

Result: Causes burns.

OECD Test Guideline 431

Causes burns.

Serious eye damage/eye irritation

Causes serious eye damage. Risk of blindness!

Rabbit

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Result: Corrosive

OECD Test Guideline 405

Sensitization

Sensitisation test: Guinea pig

Result: negative

(IUCLID)

Germ cell mutagenicity

Genotoxicity in vitro

Mutagenicity (mammal cell test): chromosome aberration.

Result: positive

Method: OECD Test Guideline 473

Mutagenicity (mammal cell test): micronucleus.

Result: positive

Method: OECD Test Guideline 487

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Target Organs: Nervous system, Kidney, Liver, Skin

Aspiration hazard

No data available

11.2 Further Information:

After absorption:

Systemic effects:

Headache, Drowsiness, inebriation, confusion, Dizziness, cardiovascular disorders, Changes in the blood count, respiratory arrest, collapse, Unconsciousness, death

Damage to: Liver, Kidney, Cardiac

Other dangerous properties cannot be excluded.

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This substance should be handled with particular care.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

Toxicity to fish

LC50 Oncorhynchus mykiss (rainbow trout): 5.0 mg/l; 96 h
(ECOTOX Database)

Toxicity to daphnia and other aquatic invertebrates

Static test EC50 Ceriodaphnia dubia (water flea): 3.1 mg/l; 48 h
US-EPA

Toxicity to algae

IC5 Scenedesmus quadricauda (Green algae): 7.5 mg/l; 8 d
(IUCLID) (maximum permissible toxic concentration)
Static test EC50 Pseudokirchneriella subcapitata (algae): 61.1 mg/l; 96 h
US-EPA

Toxicity to bacteria

EC50 activated sludge: 766 mg/l; 3 h
OECD Test Guideline 209

Toxicity to fish (Chronic toxicity)

Semi-static test NOEC Poecilia reticulata (guppy): 4 mg/l; 14 d
OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Semi-static test EC10 Daphnia magna (Water flea): 0.46 mg/l; 16 d
(ECHA)

12.2 Persistence and degradability:

Biodegradability

100 %; 6 d

OECD Test Guideline 302B

Easily eliminable.

85 %; 14 d

OECD Test Guideline 301C

Readily biodegradable

Biochemical Oxygen Demand (BOD)

1,680 mg/g (5 d)

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(IUCLID)

Chemical Oxygen Demand (COD)

2,300 mg/g

(IUCLID)

12.3 Bioaccumulate potential:

Partition coefficient: n-octanol/water

log Pow: 1.47 (30 °C)

(ECHA) Bioaccumulation is not expected.

12.4 Mobility in soil:

No data available

12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

12.6 Other adverse effects:

Surface tension

71.3 mN/m

at 20 °C

Additional ecological information

Forms corrosive mixtures with water even if diluted. Endangers drinking-water supplies if allowed to enter soil or water. Change in the flavour characteristics of fish protein.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste.

Handle uncleaned containers like the product itself.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

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	Land transport (ADR/RID)	Air transport (IATA)	Sea transport (IMDG)
14.1 UN number	UN 2821	UN 2821	UN 2821
14.2 Proper shipping name	Liquefied Phenol	Liquefied Phenol	Liquefied Phenol
14.3 Class	6.1	6.1	6.1
14.4 Packing group	II	II	II
14.5 Environmentally hazardous	Yes	Yes	No
14.6 Special precautions for user	No data available		
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code			
Not Relevant			

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

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

REACH - Restrictions on the manufacture, :
 placing on the market and use of certain
 dangerous substances, preparations and articles
 (Annex XVII)

15.2 Chemical safety assessment:

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H301 Toxic if swallowed.

H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

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H331 Toxic if inhaled.

H341 Suspected of causing genetic defects.

H373 May cause damage to organs (/*_2ORGAN_REPEAT*/) through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Training advice

Provide adequate information, instruction and training for operators.

References: Not available

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Disclaimer:

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Finar Limited be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Finar Limited has been advised of the possibility of such damages.