



Product Name: Phenol CAS No. 108-95-2 Version: 0

## 1. Identification

**Product Code** : 90206, 90489

Company Name : Advent Chembio Private Limited

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## 2. Composition/Information on Ingredients

IngredientCAS NoPercentPHENOL108-95-299- 100%

#### 3. Hazards Identification

#### **Hazard classification**

Physical hazards

Flammable liquids : Category 4

**Health hazards** 

Acute toxicity (Oral) : Category 3
Acute toxicity (Dermal) : Category 3
Acute toxicity (Inhalation - vapor) : Category 3
Skin corrosion/irritation : Category 1
Serious eye damage/eye irritation : Category 1
Germ cell mutagenicity : Category 2
Specific target organ toxicity - single : Category 2

exposure

Unknown toxicity

Acute toxicity, inhalation, vapor : 100 % Acute toxicity, inhalation, dust or mist : 100 %

**Environmental hazards** 

Acute hazards to the aquatic : Category 1

environment **Labels elements** 





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**Hazard symbol** 



Signal word

**Hazard statement** 

: Danger

: Combustible liquid. Toxic if swallowed.

Toxic if inhaled.

Toxic in contact with skin.

Causes severe skin burns and eye damage. Suspected of causing genetic defects.

May cause damage to organs through prolonged or repeated

exposure.

Very toxic to aquatic life.

Precautionary statement Prevention

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling. Avoid release to the

environment.

Response

: Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Specific treatment.

Collect spillage.

Storage Disposal : Store in a well-ventilated place. Keep cool. Store locked up.
Dispose of contents/container to an appropriate treatment and
disposal facility in accordance with applicable laws and regulations,

and product characteristics at time of disposal.

Other hazards which do not result in GHS classification

: None.





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#### 4. First Aid Measures

General information : Get medical advice/attention if you feel unwell. If medical advice is

needed, have product container or label at hand. Show this safety

data sheet to the doctor in attendance.

**Ingestion**: Call a physician or poison control center immediately. Do not

induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get

into the lungs.

**Inhalation** : Move to fresh air. Call a physician or poison control center

immediately. If breathing stops, provide artificial respiration.

**Skin contact**: Immediately flush with plenty of water for at least 15 minutes while

removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

**Eye contact**: Immediately flush with plenty of water for at least 15 minutes. If

easy to do, remove contact lenses. Get medical attention

immediately.

Most important symptoms/effects,

acute and delayed Symptoms Indication of immediate medical attention and special treatment

needed

Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

Corrosive to skin and eyes.

: Treat symptomatically. Symptoms may be delayed.

# 5. Fire fighting measures

General fire hazards : Combustible liquid.

Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media** : Water spray, foam, dry powder or carbon dioxide.

**Unsuitable extinguishing media** :

Specific hazards arising from the

chemical

Avoid water in straight hose stream; will scatter and spread fire. Combustible liquid. Contact with strong oxidizers may cause fire.

Combustible figure. Contact with strong oxidizers may caus

Heat may cause the containers to explode.

Special protective equipment and precautions for firefighters

**Special fire fighting procedures** : Use water spray to keep fire-exposed containers cool. Water may be

ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

**Special protective equipment for** 

fire-fighters

Firefighters must use standard protective equipment including flame

retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.





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#### 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Keep upwind. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.

Methods and material for containment and cleaning up

Eliminate all ignition sources if safe to do so. Take precautionary measures against static discharges. Stop leak if possible without any risk. Use only non-sparking tools. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

**Notification Procedures** 

: Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved.

**Environmental precautions** 

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and Storage

#### **Precautions for safe handling**

contact with eyes, skin, and clothing. Do not taste or swarces or swarces of swarces of electrical from been flame, sources of heat or sources of ignition. Protect material from direct sunlight. Use personal protective equipment as required. Take precautionary measures against static discharge. Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Do not taste or swallow. Do not eat, drink or smoke when using the

Do not taste or swallow. Do not eat, drink or smoke when using the product. Wear protective gloves/protective clothing/eye protection/face protection. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

: Keep away from food, drink and animal feeding stuffs. Keep container tightly closed. Keep in a cool, well-ventilated place. Store in a dry place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.





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## 8. Exposure Controls Personal Protection

#### **Control parameters**

Occupational exposure limits

| Chemical identity      | Type                           | <b>Exposure Limit values</b> | Source   |
|------------------------|--------------------------------|------------------------------|--|
| PHENOL                 | TWA                            | 5 ppm                        | US. ACGIH Threshold Limit Values (2011)        |
|                        | REL                            | 5 ppm 19 mg/m <sup>3</sup>   | US. NIOSH: Pocket Guide to Chemical            |
|                        |                                |                              | Hazards (2010)                                 |
|                        | PEL                            | 5 ppm 19 mg/m <sup>3</sup>   | US. OSHA Table Z-1 Limits for Air              |
|                        |                                |                              | Contaminants (29 CFR 1910.1000) (02 2006)      |
|                        | TWA                            | 5 ppm 19 mg/m <sup>3</sup>   | US. OSHA Table Z-1-A (29 CFR 1910.1000)        |
|                        |                                |                              | (1989  |
|                        | TWA                            | 5 ppm 19 mg/m <sup>3</sup>   | US. Tennessee. OELs. Occupational Exposure     |
|                        |                                |                              | Limits, Table Z1A (06 2008)                    |
|                        | ST ESL                         | $150  \mu g/m^3$             | US. Texas. Effects Screening Levels (Texas     |
|                        |                                |                              | Commission on Environmental Quality) (07       |
|                        |                                | 3                            | 2011)  |
|                        | AN ESL                         | 19 μg/m <sup>3</sup>         | US. Texas. Effects Screening Levels (Texas     |
|                        |                                |                              | Commission on Environmental Quality) (07       |
|                        | ANTEGE                         | - ,                          | 2011)  |
|                        | AN ESL                         | 5 ppb                        | US. Texas. Effects Screening Levels (Texas     |
|                        |                                |                              | Commission on Environmental Quality) (07       |
|                        | OT EQI                         | 40 1                         | 2011)  |
|                        | ST ESL                         | 40 ppb                       | US. Texas. Effects Screening Levels (Texas     |
|                        |                                |                              | Commission on Environmental Quality) (07 2011) |
|                        | TWA                            | 5 ppm 19 mg/m <sup>3</sup>   | US. California Code of Regulations, Title 8,   |
|                        | PEL                            | 5 ppin 15 mg/m               | Section 5155. Airborne Contaminants (08        |
|                        |                                |                              | 2010)  |
| Biological limit value | <u> </u>                       | 1                            | /  |
| Chemical identity      | Exposure Limit values          |                              | Source   |
|                        |                                |                              |  |
| PHENOL (Phenol         | 250 mg/g (Creatinine in urine) |                              | ACGIH BEL (2011)                               |
| with hydrolysis:       |                                |                              |  |
| Sampling time: End     |                                |                              |  |
| of shift.)             |                                |                              |  |

**Appropriate engineering controls** : No data available.

Individual protection measures, such as personal protective equipment

General information : Good general ventilation (typically 10 air changes per hour) should be

used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be





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available in the immediate work area. Use explosion-proof ventilation

equipment.

Eye/face protection : Wear safety glasses with side shields (or goggles) and a face shield.

**Hand protection** : Chemical resistant gloves.

Other : Wear suitable protective clothing.

**Respiratory protection** : In case of inadequate ventilation use suitable respirator.

182 °C

**Hygiene measures** : Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard

contaminated footwear that cannot be cleaned. Provide eyewash station

and safety shower.

## 9. Physical and Chemical Properties

Appearance: Colorless liquid.Odor: No data available.pH: No data available.Melting point/freezing point: No data available.

Initial boiling point and boiling

range

Flash Point : 79 °C Vapor pressure : 0.1 kPa

Vapor density: No data available.Relative density: 1.06 (20 °C)Solubility in water: Soluble

**Solubility (other)** : No data available.

 $\begin{array}{lll} \textbf{Formula} & : & C_6H_6O \\ \textbf{Molecular Weight} & : & 94.11 \text{ g/mol} \\ \end{array}$ 

# 10. Stability and Reactivity

**Reactivity**: No dangerous reaction known under conditions of normal use.

Chemical stability: Material is stable under normal conditions.Possibility of hazardous reactions: Hazardous polymerization does not occur.

**Conditions to avoid** : Heat, sparks, flames. Contact with incompatible materials.

Incompatible materials: Strong oxidizing agents. Acids. Calcium hypochlorite. Aluminum.Hazardous decomposition products: Thermal decomposition may release oxides of carbon. By heating and

fire, irritating vapors/gases may be formed. By heating and fire, toxic

vapors/gases may be formed.





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#### 11. Toxicological Information

Information on likely routes of exposure

Toxic if swallowed. **Ingestion** 

Inhalation Toxic if inhaled.

Toxic in contact with skin. Causes severe skin burns. Skin contact

Causes serious eye damage. **Eve contact** 

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

**Oral Product** No data available.

**Specified substance(s):** PHENOL LD 50 (Rat): 317 mg/kg

**Dermal Product** ATEmix (Rabbit): 923.91 mg/kg

**Inhalation Product** No data available. **Repeated dose toxicity Product** No data available.

**Skin corrosion/irritation Product** Causes severe skin burns. Causes serious eye damage.

Serious eye damage/eye irritation

**Product** 

Not a skin sensitizer.

Respiratory or skin sensitization

**Product** 

No data available.

**Carcinogenicity Product** IARC Monographs on the

**Evaluation of Carcinogenic Risks** 

to Humans DIOXANE

**US. National Toxicology Program** 

(NTP) Report on Carcinogens

**DIOXANE** 

**US. OSHA Specifically Regulated** 

Substances (29 CFR 1910.1001-

1050

Germ cell mutagenicity

In vitro Product Suspected of causing genetic defects. In vivo Product Suspected of causing genetic defects.

**Reproductive toxicity Product** No data available. Specific target organ toxicity -No data available.

single exposure Product

Specific target organ toxicity repeated exposure Product

Liver, Nervous System, Skin, Kidney - May cause damage to

organs through prolonged or repeated exposure.

No carcinogenic components identified.

No carcinogenic components identified.

No carcinogenic components identified.

**Aspiration hazard Product** Not classified Other effects None known.





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## 12. Ecological Information

**Ecotoxicity** 

Acute hazards to the aquatic environment:

**Fish Product** : No data available .

Specified substance(s): PHENOL LC 50 (Fathead minnow (Pimephales promelas), 96 h): 20.5 - 25.6

mg/l Mortality

LC 50 (Carp (Cyprinus carpio), 96 h): 0.00175 mg/l Mortality LC 50 (Bluegill (Lepomis macrochirus), 96 h): 11.5 mg/l

Mortality

**Aquatic invertebrates Product** : No data available.

Specified substance(s): PHENOL : LC 50 (Water flea (Daphnia magna), 96 h): 4 mg/l Mortality.

Chronic hazards to the aquatic environment:

Fish Product : No data available.

Aquatic invertebrates Product : No data available.

Toxicity to Aquatic Plants Product: : No data available.

Specified substance(s): PHENOL : LC 50 (Duckweed (Lemna minor), 72 h): 1,500 mg/l Mortality.

Persistence and degradability

**Biodegradation Product**: There are no data on the degradability of this product.

**BOD/COD ratio Product** : No data available.

**Bioaccumulative potential** 

**Bioconcentration factor (BCF)** : No data available on bioaccumulation.

**Product** 

Partition coefficient n-octanol /

water (log Kow) Product

: No data available.

**Specified substance(s):** PHENOL : Log Kow: 1.46

**Mobility in soil** : The product is water soluble and may spread in water systems.

Other adverse effects : Very toxic to aquatic organisms.

#### 13. Disposal consideration

**Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state,

or local laws.

Contaminated packaging : Since emptied containers retain product residue, follow label

warnings even after container is emptied.





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#### 14. Transport Information

|      | UN No. | UN proper shipping name | Hazard<br>Class(es) | Packaging | Marine Pollutant |
|------|--------|-------------------------|---------------------|-----------|------------------|
|      |        |                         | Class(es)           | group     |                  |
| DOT  | 1671   | Phenol                  | 6.1                 | II        | No               |
| IMDG | 1671   | Phenol                  | 6.1                 | II        | No               |
| IATA | 1671   | Phenol                  | 6.1                 | II        | No               |

# 15. Regulatory Information

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

Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.

#### 16. Other Information

#### NFPA Hazard ID



Flammability
Health
Reactivity
Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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Version : 0

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|----------------------|-------------|-------------------------|------------|
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