

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

- **Product details**
- **Trade name:** *phenol*
- **Manufacturer/Supplier:**  
*Petrochem Middle East FZE  
 PO Box 17028,  
 Jebel Ali Free Zone  
 Dubai, UAE  
 Ph +971 4 8839222; Fax +971 4 8834133*
- **Further information obtainable from:** *Product safety department.*
- **Information in case of Emergency** *Product safety department.*

## 2 Composition/information on ingredients

- **Chemical characterization:**
- **CAS No. Description**  
*108-95-2 phenol*
- **Identification number(s)**
- **EINECS Number:** *203-632-7*
- **Index number:** *604-001-00-2*

## 3 Hazards identification

- **Hazard description:**



*Muta. Cat. 3  
 T Toxic*

- **Information concerning particular hazards for human and environment:**
- R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.*
- R 34 Causes burns.*
- R 48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.*
- R 68 Possible risk of irreversible effects.*

## 4 First aid measures

- **General information:**  
*Immediately remove any clothing soiled by the product.  
 Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.  
 Remove breathing equipment only after contaminated clothing have been completely removed.  
 In case of irregular breathing or respiratory arrest provide artificial respiration.*
- **After inhalation:**  
*Supply fresh air or oxygen; call for doctor.  
 In case of unconsciousness place patient stably in side position for transportation.*
- **After skin contact:** *Immediately wash with water and soap and rinse thoroughly.*
- **After eye contact:** *Rinse opened eye for several minutes under running water. Then consult a doctor.*
- **After swallowing:**  
*Do not induce vomiting; call for medical help immediately.  
 Drink plenty of water and provide fresh air. Call for a doctor immediately.*

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### 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** Mouth respiratory protective device.

### 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Use neutralizing agent.  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Thorough dedusting.  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

**Ingredients with limit values that require monitoring at the workplace:**

**108-95-2 phenol**

PEL (USA)	19 mg/m <sup>3</sup> , 5 ppm Skin
REL (USA)	Short-term value: C60* mg/m <sup>3</sup> , C 15.6* ppm Long-term value: 19 mg/m <sup>3</sup> , 5 ppm *15-min; Skin
TLV (USA)	19 mg/m <sup>3</sup> , 5 ppm Skin; BEI
IOELV (EU)	7.8 mg/m <sup>3</sup> , 2 ppm Skin
WEL (Great Britain)	2 ppm Sk

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Avoid contact with the eyes and skin.

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- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

### · General Information

<b>Form:</b>	Solid
<b>Colour:</b>	White
<b>Odour:</b>	Sweetish

### · Change in condition

<b>Melting point/Melting range:</b>	40.8°C
<b>Boiling point/Boiling range:</b>	181.8°C

· **Flash point:** 82°C

· **Flammability (solid, gaseous):** Product is not flammable.

· **Ignition temperature:** 595°C

· **Danger of explosion:** Product does not present an explosion hazard.

### · Explosion limits:

<b>Lower:</b>	1.3 Vol %
<b>Upper:</b>	9.5 Vol %

· **Vapour pressure at 20°C:** 0.3 hPa

· **Density at 20°C:** 1.0576 g/cm<sup>3</sup>

· **Solubility in / Miscibility with water at 20°C:** 82 g/l

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.

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· **Dangerous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

Oral	LD50	317 mg/kg (rat)
Dermal	LD50	850 mg/kg (rabbit)

· **Primary irritant effect:**

· **on the skin:** Caustic effect on skin and mucous membranes.

· **on the eye:** Strong caustic effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

### 12 Ecological information

· **General notes:**

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

### 13 Disposal considerations

· **Product:**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

· **Land transport ADR/RID (cross-border)**



· **ADR/RID class:** 6.1 Toxic substances.

· **Danger code (Kemler):** 60

· **UN-Number:** 1671

· **Packaging group:** II

· **Hazard label:** 6.1

· **Description of goods:** 1671 PHENOL, SOLID

· **Maritime transport IMDG:**



· **IMDG Class:** 6.1

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- **UN Number:** 1671
- **Label** 6.1
- **Packaging group:** II
- **EMS Number:** F-A,S-A
- **Marine pollutant:** No
- **Proper shipping name:** PHENOL, SOLID

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 6.1
- **UN/ID Number:** 1671
- **Label** 6.1
- **Packaging group:** II
- **Proper shipping name:** PHENOL, SOLID

### 15 Regulatory information

- **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- **Code letter and hazard designation of product:**



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T Toxic

- **Risk phrases:**

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

34 Causes burns.

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

68 Possible risk of irreversible effects.

- **Safety phrases:**

1/2 Keep locked up and out of the reach of children.

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 After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer).

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:** Product safety department
- **Contact:** Mr. Menon