CAS No: 108-95-2 MSDS



# **MATERIAL SAFETY DATA SHEET (MSDS)**

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **Product identifier**

Product form : Substance

EC no : 203-632-7 CAS No : 108-95-2 : 05168 Product code Formula C6H6O

Chemical structure

 $\mathsf{OH}$ 

Synonyms : Hydroxybenzene

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

#### 1.2.2. Uses advised against

No additional information available

#### Details of the supplier of the safety data sheet

LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai - INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com - www.lobachemie.com

# **Emergency telephone number**

**Emergency number** : + 91 22 6663 6663 (9:00am - 6:00 pm)

### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), H301 Category 3 Acute toxicity (dermal), H311 Category 3 Acute toxicity (inhal.), H331

Category 3

Skin corrosion/irritation, H314

Category 1B

H341 Germ cell mutagenicity,

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Category 2

Specific target organ

H373

toxicity — Repeated exposure, Category 2

Full text of classification categories and H statements : see section 16

### Classification according to Directive 67/548/EEC or 1999/45/EC

Muta.Cat.3; R68 T; R23/24/25 Xn; R48/20/21/22 C; R34

Full text of R-phrases: see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

# Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)







GHS05

GHS06

GHS08

Signal word (CLP) : Danger

Hazard statements (CLP) : 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 through prolonged or repeated exposure

Precautionary statements (CLP) : P201 - Obtain special instructions before use

P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or

doctor/physician

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor/physician

#### 2.3. Other hazards

No additional information available

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Name : PHENOL FOR MOLECULAR BIOLOGY

CAS No : 108-95-2 EC no : 203-632-7

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Full text of R- and H-phrases: see section 16

#### 3.2. Mixture

Not applicable

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor/physician.

First-aid measures after skin contact : Immediately call a POISON CENTER or doctor/physician. Remove/Take off

immediately all contaminated clothing. Wash with plenty of soap and water. Specific measures (see ... on this label). Wash contaminated clothing before reuse. Rinse

skin with water/shower. Gently wash with plenty of soap and water.

First-aid measures after eye contact : 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.

First-aid measures after ingestion : Rinse mouth. Immediately call a POISON CENTER or doctor/physician. Specific

treatment (see ... on this label). Do NOT induce vomiting.

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

Symptoms/injuries : Causes severe skin burns and eye damage. Suspected of causing genetic defects.

May cause damage to organs through prolonged or repeated exposure.

Symptoms/injuries after inhalation : Toxic if inhaled.

Symptoms/injuries after skin contact : Toxic in contact with skin.

Symptoms/injuries after ingestion : Toxic if swallowed.

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

Treat symptomatically.

### **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

#### **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

# 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Avoid breathing dust/fume/gas/mist/vapours/spray.

Emergency procedures : Stop release.

### 6.2. Environmental precautions

Avoid release to the environment.

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#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clear up rapidly by scoop or vacuum.

#### 6.4. Reference to other sections

No additional information available

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing

dust/fume/gas/mist/vapours/spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash ... thoroughly after

handling. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Store in original container. Keep container tightly closed. Store in a dry place.

Protect from moisture.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

# 8.2. Exposure controls

Personal protective equipment : Wash ... thoroughly after handling.

Hand protection : protective gloves

Eye protection : Chemical goggles or face shield
Skin and body protection : Wear suitable protective clothing

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection

equipment is recommended

Other information : Do not breathe dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when

using this product.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Colour : Colorless to light pink.

Odour : medicinal sweet odor.

Odour threshold : No data available

pH : 6

Relative evaporation rate (butylacetate=1) : No data available

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Melting point : 40 - 42

Freezing point : No data available

Boiling point : 182 °C
Flash point : 79 °C

Auto-ignition temperature : 715 °C

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : 0.5 hPa at 20°C

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 1.07 g/cm<sup>3</sup>

Solubility : Water: 1 (g/15 ml of water)

Log Pow : 1.46

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : 0.017 - 0.086 vol %

# 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Thermal decomposition generates: Corrosive vapours.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

# 10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Thermal decomposition generates: Corrosive vapours.

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### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Toxic if

inhaled.

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 6

Serious eye damage/irritation : Serious eye damage, category 1, implicit

pH: 6

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Suspected of causing genetic defects.

Carcinogenicity : Not classified

Reproductive toxicity : Not classified Specific target organ toxicity (single : Not classified

exposure)

Specific target organ toxicity (repeated

exposure)

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

Aspiration hazard : Not classified

Potential adverse human health effects

and symptoms

: Toxic if swallowed. Toxic in contact with skin.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

Log Pow 1.46

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

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#### 12.6. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product/Packaging disposal

recommendations

: Dispose of contents/container to ...

Ecology - waste materials

: Hazardous waste due to toxicity.

# **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

UN-No. (ADR) : 1671 UN-No. (IMDG) : 1671 UN-No.(IATA) : 1671 UN-No. (ADN) : 1671 UN-No. (RID) : 1671

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : PHENOL, SOLID
Proper Shipping Name (IMDG) : PHENOL, SOLID
Proper Shipping Name (IATA) : PHENOL, SOLID
Proper Shipping Name (ADN) : PHENOL, SOLID
Proper Shipping Name (RID) : PHENOL, SOLID

Transport document description (ADR) : UN 1671 PHENOL, SOLID, 6.1, II, (D/E)
Transport document description (IMDG) : UN 1671 PHENOL, SOLID, 6.1, II
Transport document description (ADN) : UN 1671 PHENOL, SOLID, 6.1, II
Transport document description (ADN) : UN 1671 PHENOL, SOLID, 6.1, II
Transport document description (RID) : UN 1671 PHENOL, SOLID, 6.1, II

#### 14.3. Transport hazard class(es)

#### **ADR**

Transport hazard class(es) (ADR) : 6.1 Danger labels (ADR) : 6.1



#### **IMDG**

Transport hazard class(es) (IMDG) : 6.1 Danger labels (IMDG) : 6.1



## **IATA**

Transport hazard class(es) (IATA) : 6.1

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Hazard labels (IATA) : 6.1

#### ADN

Transport hazard class(es) (ADN) : 6.1 Danger labels (ADN) : 6.1



### RID

Transport hazard class(es) (RID) : 6.1 Danger labels (RID) : 6.1



### 14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

### 14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

: TP33

# 14.6. Special precautions for user

# - Overland transport

Classification code (ADR) : T2
Special provision (ADR) : 279
Limited quantities (ADR) : 500g
Excepted quantities (ADR) : E4

Packing instructions (ADR) : P002, IBC08

Special packing provisions (ADR) : B4

Mixed packing provisions (ADR) : MP10

Portable tank and bulk container : T3

instructions (ADR)

Portable tank and bulk container special

provisions (ADR)

Tank code (ADR) : SGAH
Tank special provisions (ADR) : TU15, TE19

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Vehicle for tank carriage : AT
Transport category (ADR) : 2
Special provisions for carriage - Packages : V1

(ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

Special provisions for carriage - Operation : S9, S19

(ADR)

Hazard identification number (Kemler No.) : 60

Orange plates

60

: CV13, CV28

Tunnel restriction code (ADR) : D/E EAC code : 2X

#### - Transport by sea

Special provision (IMDG) : 279 Limited quantities (IMDG) : 500 g Excepted quantities (IMDG) : E4 Packing instructions (IMDG) : P002 IBC packing instructions (IMDG) : IBC08 IBC special provisions (IMDG) : B2, B4 Tank instructions (IMDG) : T3 Tank special provisions (IMDG) : TP33 EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-A Stowage category (IMDG) : A MFAG-No : 153

#### - Air transport

PCA Excepted quantities (IATA) : E4
PCA Limited quantities (IATA) : Y644
PCA limited quantity max net quantity : 1kg

(IATA)

PCA packing instructions (IATA) : 669
PCA max net quantity (IATA) : 25kg
CAO packing instructions (IATA) : 676
CAO max net quantity (IATA) : 100kg
Special provision (IATA) : A113
ERG code (IATA) : 6L

#### - Inland waterway transport

Classification code (ADN) : T2

Special provisions (ADN) : 279, 802

Limited quantities (ADN) : 500 g

Excepted quantities (ADN) : E4

Equipment required (ADN) : PP, EP

Number of blue cones/lights (ADN) : 2

#### - Rail transport

Classification code (RID) : T2

Special provision (RID) : 279

Limited quantities (RID) : 500g

Excepted quantities (RID) : E4

Packing instructions (RID) : P002, IBC08

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# Safety Data Sheet

Special packing provisions (RID) : B4

Mixed packing provisions (RID) : MP10

Portable tank and bulk container : T3

instructions (RID)

Portable tank and bulk container special : TP33

provisions (RID)

Tank codes for RID tanks (RID) : SGAH
Special provisions for RID tanks (RID) : TU15
Transport category (RID) : 2
Special provisions for carriage – Packages : W11

(RID)

Special provisions for carriage - Loading

and unloading (RID)

: CW13, CW28, CW31

Colis express (express parcels) (RID) : CE9
Hazard identification number (RID) : 60

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

Not applicable

# **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

PHENOL FOR MOLECULAR BIOLOGY is not on the REACH Candidate List PHENOL FOR MOLECULAR BIOLOGY is not on the REACH Annex XIV List

#### 15.1.2. National regulations

#### Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 2, hazardous to water (Classification according to

VwVwS, Annex 2; WGK No 170)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BlmSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

#### Denmark

Class for fire hazard : Class III-1 Store unit : 50 liter

Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management

quidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct

contact with the product

The requirements from the Danish Working Environment Authorities regarding work

with carcinogens must be followed during use and disposal

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# 15.2. Chemical safety assessment

No additional information available

# **SECTION 16: Other information**

# Full text of R-, H- and EUH-phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Muta. 2	Germ cell mutagenicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H331	Toxic if inhaled
H341	Suspected of causing genetic defects
H373	May cause damage to organs through prolonged or repeated exposure
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R34	Causes burns
R48/20/21/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed
R68	Possible risk of irreversible effects
С	Corrosive
Т	Toxic
Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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