

## SAFETY DATA SHEET

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

#### 1.1 Product identifiers

|              |                              |
|--------------|------------------------------|
| Product name | Resorcinol Crystals Purified |
| CAS number   | 108-46-3                     |
| Synonyms     | 1,3-Benzenediol              |

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

|                 |                      |
|-----------------|----------------------|
| Identified uses | Laboratory Chemicals |
|-----------------|----------------------|

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

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| Company   | Lab Alley, LLC<br>12501 Pauls Valley Road<br>Austin, Texas 78737<br>U.S.A. |
| Telephone | 512-668-9918                                                               |
| Fax       | 512-886-4008                                                               |

#### 1.4 Emergency telephone

|                   |                              |          |
|-------------------|------------------------------|----------|
| Emergency Phone # | US & Canada: 1-800-535-5053  | INFOTRAC |
|                   | International 1-352-323-3500 | INFOTRAC |

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

|                                                  |             |
|--------------------------------------------------|-------------|
| Acute Oral Toxicity                              | Category 4  |
| Skin Irritation                                  | Category 2  |
| Serious Eye Damage                               | Category 1  |
| Skin Sensitization                               | Category 1B |
| Specific Target Organ Toxicity (single exposure) | Category 1  |

|                                                  |            |
|--------------------------------------------------|------------|
| Target Organ(s) - Central nervous system, Blood  |            |
| Specific Target Organ Toxicity (single exposure) | Category 2 |
| Target Organ(s) - Respiratory system             |            |
| Acute Aquatic Hazard                             | Category 1 |
| Chronic Aquatic Hazard                           | Category 3 |

## 2.2 GHS Label elements, including precautionary statements

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pictogram                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Signal Word              | Danger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Hazard statements        | <p>Harmful if swallowed.<br/> Causes skin irritation.<br/> May cause an allergic skin reaction.<br/> Causes serious eye damage.<br/> Causes damage to organs (Central nervous system, Blood) if swallowed.<br/> May cause damage to organs (Respiratory system) if swallowed.<br/> Very toxic to aquatic life.<br/> Harmful to aquatic life with long lasting effects.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Precautionary statements | <p>Prevention: Do not breathe dust. Wash skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/ eye protection/ face protection.<br/> Response: IF exposed or concerned, call a POISON CENTER/ doctor.<br/> IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.<br/> IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.<br/> 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/ doctor.<br/> Spills: Collect spillage.<br/> Storage: Store locked up.<br/> Disposal: Dispose of contents/ container to an approved waste disposal plant.</p> |

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

## SECTION 3: Composition/information on ingredients

### 3.1 Components

| Chemical name | Common name and synonyms | CAS number | Concentration |
|---------------|--------------------------|------------|---------------|
| Resorcinol    | 1,3-Benzenediol          | 108-46-3   | >99%          |

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

|                                |                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>If inhaled</b>              | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Apply artificial respiration if victim is not breathing. Rinse nose, mouth and throat with water. Keep victim warm with a blanket etc. Get immediate medical advice/attention. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. |
| <b>In case of skin contact</b> | Gently wash with plenty of soap and water. Remove/Take off immediately contaminated clothing and shoes. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.                                                                                                                                                                                      |
| <b>In case of eye contact</b>  | Do not rub eye. Hold eyelids apart. Begin to rinse with water as soon as possible and rinse cautiously for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.                                                                                                                                                                |
| <b>If swallowed</b>            | Rinse mouth. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Keep victim warm with a blanket etc. Get immediate medical advice/attention. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Administer oxygen if breathing is difficult. Apply artificial respiration if victim is not breathing.                             |

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

The most important known symptoms and effects are described in the labelling (see Section 2.2) and/or in Section 11.

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

No information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

|                                       |                                                                          |
|---------------------------------------|--------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>   | Fog, water, dry chemical powder, alcohol-resistant foam, Carbon dioxide. |
| <b>Unsuitable extinguishing media</b> | Straight streams.                                                        |

## 5.2 Specific hazards arising from the substance or mixture

A cloud of uncombusted dust of this product formed in an explosion or fire may cause a secondary explosion. Cool cylinders/containers with an appropriate cooling means, paying heed to incompatible hazardous substances. Harmful substances in the water runoff from fire control may have adverse environmental and biological effects

## 5.3 Special protective equipment and precautions for firefighters

Wear regional, national, and local standards approved fire fighting turnout gear and positive pressure self-contained breathing apparatus (SCBA). Wear flame-resistant or fireproof clothes, with face shield, helmet, and gloves.

## 5.4 Further information

**Flash Point** 167 °C Pensky-Martens Closed Cup

**Autoignition Temperature** 608 °C

### Explosion limits

**Upper** No data available.

**Lower** No data available.

**Sensitivity to Mechanical Impact** No information available.

**Sensitivity to Static Discharge** No information available.

### NFPA

| Health | Flammability | Instability | Physical hazards |
|--------|--------------|-------------|------------------|
| 2      | 1            | 0           | N/A              |

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate protective equipment to avoid contact of dust with the eyes and skin and inhalation of dust. If fire does not break out, wear highly sealable non-permeable protective clothing. Spray water to prevent scattering, if appropriate. Evacuate area. Evacuate people who are downwind, and keep upwind while working. Keep unauthorized personnel away. If the surrounding area may be affected (including health impairment), warn the nearby residents. Remove immediately all ignition sources nearby. Form large safety zone. ELIMINATE all ignition sources such as heat/sparks/open flames/hot surfaces/static discharges. Prepare appropriate extinguishing agent. Cover powder spill with plastic sheet or tarp to minimize spreading and to keep powder dry.

### 6.2 Environmental precautions

Avoid release to the environment. Form a dike to prevent the leakage from flowing into waterways (rivers, sewers, etc.) and affecting the environment.

### 6.3 Methods and materials for containment and cleaning up

Collect the leakage promptly. Wet the spills, if appropriate, to prevent scattering. Dike the leakage promptly to prevent scattering into waters (river, sewer, and so on), then wet with water and collect later disposal. Sweep and collect the leakage in a sealed container and move it to a safe place. Use explosion-proof electrical/ventilating/lighting equipment. ELIMINATE all ignition sources such as heat/sparks/open flames/hot surfaces/static discharges. Consult with an expert when collecting the leakage. Use dust explosion-proof type electric equipment and lighting. Electrically conductive containers must be grounded. Collect fine substance by dust explosion-proof cleaner to prevent scatter. Collect leakage after taking measures for safe handling. Collect the residue carefully and transfer it to a safe place

#### **6.4 Reference to other sections**

See Section 2 for full list of hazard and precaution statements.

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

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

Prevent dust cloud or/and dust accumulation. Keep away from incompatible materials. Ventilate by a system of local and/or general exhaust. ELIMINATE all ignition sources. Do not use low conductive material to equipments and containers including plastic lining, bags, and filters. Use dust explosion-proof electrical/ventilating/lighting/equipment. Inerting by nitrogen gas, etc., and explosion pressure venting of confined spaces are recommended as dust explosion precautions. Handle the product in closed system or use dust collector, to prevent exposure in a dusty atmosphere. Do not eat, drink, or smoke when using this product. Avoid all exposure to personnel. Do not bring contaminated protective equipment into the rest area. Wear appropriate protective equipment to avoid contact with work clothes, skin, mucous membrane, or eyes. Contaminated work clothing should not be allowed out of the workplace. Dispose of contaminated protective clothing safely. Take precautionary measures against static electricity such as grounding and bonding, wearing anti-static footwear and clothing, using grounded conductive floor.

##### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

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

##### **Storage conditions**

Keep in a fire-proof designed place. Store under controlled lighting and appropriate ventilation. Take precautionary measures against static discharges. Store locked up. Protect from sunlight. Store in a well-ventilated place. Store in an area without drain or sewer access. Light-shielding storage.

##### **Incompatibilities**

Strong oxidizers, strong acids, amino compounds, alkalies.

### **SECTION 8: Exposure controls/personal protection**

#### **8.1 Occupational exposure limits**

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Component  | Type | Value                       |
|------------|------|-----------------------------|
| Resorcinol | TWA  | 10 ppm 45 mg/m <sup>3</sup> |
|            | STEL | 20 ppm 90 mg/m <sup>3</sup> |

**US. ACGIH Threshold Limit Values**

| Component  | Type | Value  |
|------------|------|--------|
| Resorcinol | TWA  | 10 ppm |
|            | STEL | 20 ppm |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Component  | Type | Value                       |
|------------|------|-----------------------------|
| Resorcinol | TWA  | 10 ppm 45 mg/m <sup>3</sup> |
|            | STEL | 20 ppm 90 mg/m <sup>3</sup> |

**ACGIH Biological Exposure Indices**

| Component  | Value  | Parameters    | Specimen |
|------------|--------|---------------|----------|
| Resorcinol | 5%, Hb | Methemoglobin | Blood    |

## 8.2 Exposure controls

**Appropriate engineering controls**

Use in a closed equipment or apparatus. Use a local and/or general ventilation system with collecting apparatus to prevent exposure of worker in dust generating job (polishing, grinding, cutting, and so on). Use a local and/or general ventilation system with collecting apparatus, and a closed equipment or apparatus. Provide facilities to wash hands, eyes, and the body at the working place.

**Personal protective equipment****Eye/face protection**

Be sure to use eye protective equipment only chosen according to specific regulatory requirements after a risk assessment. Chemical safety goggles

**Skin protection**

Be sure to use hand protective equipment only chosen according to specific regulatory requirements after a risk assessment. Impervious gloves.

**Body Protection**

Be sure to use personal protective equipment (PPE) only chosen according to specific regulatory requirements after a risk assessment. Protective clothing (work clothing covering the entire skin, nonwoven fabric is recommended).

**Respiratory protection**

Be sure to use breathing protective equipment only chosen according to specific regulatory requirements after a risk assessment. When an emergency or leak occurs, wear air respirator or positive pressure self-contained breathing apparatus (SCBA). Filter respirator for dust.

**Control of environmental exposure**

No information available.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

|                                           |                          |
|-------------------------------------------|--------------------------|
| Physical State                            | Solid                    |
| Appearance                                | White to pale yellow     |
| Odor                                      | Slight phenolic odor     |
| Odor Threshold                            | No data available        |
| pH                                        | 4.6                      |
| Melting Point/Range                       | 109-111 °C               |
| Boiling Point/Range                       | 281 °C (1013.0 hPa)      |
| Evaporation Rate                          | No data available        |
| Flammability (solid)                      | No data available        |
| Flammability or explosive limit           | No data available        |
| Upper                                     |                          |
| Lower                                     |                          |
| Vapor Pressure                            | 0.001 kPa (20 °C)        |
| Vapor Density                             | No data available        |
| Density                                   | 1.285 (15 °C)            |
| Solubility                                | 1.1 g/mL soluble (20 °C) |
| Partition coefficient;<br>n-octanol/water | log Pow: 0.8             |
| Autoignition Temp                         | 608 °C                   |
| Decomposition Temp                        | > 350 °C                 |
| Viscosity                                 | No data available        |
| Molecular Formula                         | C6 H6 O2                 |
| Molecular Weight                          | 110.11 g/mol             |
| VOC Content(%)                            | No data available        |
| Oxidizing properties                      | No data available        |

**9.2 Other safety information** No data available**SECTION 10: Stability and reactivity****10.1 Reactivity**

No data available

**10.2 Chemical stability**

Material is stable under normal conditions.

### 10.3 Possibility of hazardous reactions

May form explosive dust cloud. Fine particles generated from the product may cause a dust explosion. May cause a fire and/or explosion, or react violently, in the conditions listed below or in contact with incompatible materials.

### 10.4 Conditions to avoid

Incompatible materials, open flame, mechanical spark, electrical spark, heat, hot surface(s), electrostatic discharge.

### 10.5 Incompatible materials

Strong oxidizers, strong acids, amino compounds, alkalies.

### 10.6 Hazardous decomposition products

Carbon monoxide, Carbon dioxide, Hydrocarbons, soot.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product Information, Component Information

##### Acute toxicity

| Component  | LD50 Oral       | LD50 Dermal          | LC50 Inhalation                    |
|------------|-----------------|----------------------|------------------------------------|
| Resorcinol | 510 mg/kg (Rat) | 2,830 mg/kg (Rabbit) | > 2,800 mg/m <sup>3</sup> (Rat) 8h |

##### Skin corrosion/irritation

Irritating to skin.

##### Serious eye damage/eye irritation

Severe irritant to eyes.

##### Respiratory or skin sensitization

Skin sensitizer.

##### Germ cell mutagenicity

No information available.

##### Carcinogenicity

| Component  | CAS      | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|------------|----------|------------|------------|------------|------------|------------|
| Resorcinol | 108-46-3 | Not listed | Not listed | Not listed | Not listed | Not listed |

##### Specific target organ toxicity - single exposure

Central nervous system, Blood, Respiratory system.



**Specific target organ toxicity - repeated exposure**

No specific target organs noted.

**Reproductive toxicity**

No information available.

**Chronic effects**

No information available.

**11.2 Additional Information**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**SECTION 12: Ecological information****12.1 Toxicity**

| Product    |       | Species        | Test Results      |
|------------|-------|----------------|-------------------|
| Resorcinol | LC50  | Fathead Minnow | 26.8 mg/l, 96 hrs |
|            | EC50  | Water Flea     | 1 mg/l, 48 hrs    |
|            | EC50  | Green Algae    | > 97 mg/l, 72 hrs |
|            | NOECr | Green Algae    | 97 mg/l, 72 hrs   |
|            | LOEC  | Rainbow Trout  | 32 mg/l, 60 d     |
|            | NOEC  | Water Flea     | >= 172 µg/l, 21 d |

**12.2 Persistence and degradability**

Rapid biodegradability.

**12.3 Bio accumulative potential**

Bioconcentration factor (BCF): 3.16.

**12.4 Mobility in soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

No information available.

**12.6 Endocrine disrupting properties**

No information available.

**12.7 Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

### 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## SECTION 14: Transport information

### DOT (US)

|                      |            |
|----------------------|------------|
| UN Number            | UN2876     |
| Proper Shipping name | RESORCINOL |
| Hazard Class         | 6.1        |
| Packaging Group      | III        |

### IMDG

|                      |            |
|----------------------|------------|
| UN Number            | UN2876     |
| Proper Shipping name | RESORCINOL |
| Hazard Class         | 6.1        |
| Packaging Group      | III        |

### IATA

|                      |            |
|----------------------|------------|
| UN Number            | UN2876     |
| Proper Shipping name | RESORCINOL |
| Hazard Class         | 6.1        |
| Packaging Group      | III        |

## SECTION 15: Regulatory information

|                               |                                                                                                                |
|-------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>US federal regulations</b> | This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. |
|-------------------------------|----------------------------------------------------------------------------------------------------------------|

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
Not applicable.

**CERCLA Hazardous Substance List (40 CFR 302.4)**  
Listed, Resorcinol (CAS #108-46-3), RQ: 5000 lb.

**SARA 304 Emergency release notification**  
Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**  
Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous**

Acute Health Hazard.

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Clean Water Act (CWA)**

Listed, Resorcinol (CAS #108-46-3)

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed.

**US state regulations**

**US. Massachusetts RTK - Substance List**

Listed, Resorcinol (CAS #108-46-3)

**US. New Jersey Worker and Community Right-to-Know Act**

Listed, Resorcinol (CAS #108-46-3)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Listed, Resorcinol (CAS #108-46-3)

**California Proposition 65**

Not listed.

**SECTION 16: Other information**

Date of Issue: 01/18/2016

Revised on 06/25/2026

**SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.