

# Material Safety Data Sheet

-- Resorcinol

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Resorcinol

Company: ORCHID CHEMICAL SUPPLIES LTD

Address: 1812, No.607, North Zhongshan Road, Hangzhou, Zhejiang Province 310014 China

Tel: +86-571-56880366 / 85395792

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

#### OSHA Hazards

Target Organ Effect, Toxic by ingestion, Irritant

#### Target Organs

Liver, Kidney, Spleen., Heart, Blood

#### GHS Label elements, including precautionary statements

##### Hazard statement(s)

H302	Harmful if swallowed.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage..
H400	Very toxic to aquatic life.

##### Precautionary statement(s)

P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection/face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### HMIS Classification

Health Hazard:	2
Chronic Health Hazard:	*
Flammability:	1
Physical hazards:	0

### NFPA Rating

Health Hazard:	2
Fire:	1
Reactivity Hazard:	0

### Potential Health Effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.
Ingestion	Toxic if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : 1,3-Benzenediol

CAS-No. 108-46-3

EC-No. 203-585-2

### 4. FIRST AID MEASURES

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### **If inhaled**

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

#### **In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

#### **In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5. FIRE-FIGHTING MEASURES

#### **Suitable extinguishing media**

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

#### **Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

### 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

#### **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.

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

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

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

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Air and light sensitive.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves.

#### Eye protection

Face shield and safety glasses.

#### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form: solid

### Safety data

pH	4.4 at 50 g/l at 20 °C (68 °F)
Melting/freezing point	109 - 112 °C (228 - 234 °F) - lit.
Boiling point	178 °C (352 °F) at 21 hPa (16 mmHg) - lit.
Flash point	127 °C (261 °F) - closed cup
Ignition temperature	608 °C (1,126 °F)
Lower explosion limit	1.4 %(V)
Vapour pressure	1 hPa (1 mmHg) at 21.1 °C (70.0 °F)
Density	1.272 g/cm <sup>3</sup>
Water solubility	soluble
Partition coefficient: n-octanol/water	log Pow: 0.88

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Materials to avoid

Oxidizing agents, Iron and iron salts.

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

LD50 Oral - rat - 301 mg/kg

Remarks: Behavioral:Convulsions or effect on seizure threshold. Gastrointestinal:Changes in structure or function of salivary glands. Lungs, Thorax, or Respiration:Dyspnea.

LD50 Dermal - rabbit - 3,360 mg/kg

Remarks: Skin irritation Nutritional and Gross Metabolic:Weight loss or decreased weight gain.

### Skin corrosion/irritation

Skin - rabbit - Skin irritation - 24 h

### Serious eye damage/eye irritation

Eyes - rabbit - Severe eye irritation

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

Genotoxicity in vitro - rat - Liver

DNA damage

Genotoxicity in vitro - Human - lymphocyte

Cytogenetic analysis

### Carcinogenicity

Carcinogenicity - mouse - Skin

Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages: Other: Tumors. This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification..

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (1,3-Benzenediol)

NTP: No component of this product present at levels greater than or equal to

0.1% is identified as a known or anticipated carcinogen by NTP.  
 OSHA: No component of this product present at levels greater than or equal to  
 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### Reproductive toxicity

no data available

#### Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

#### Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

#### Aspiration hazard

no data available

#### Potential Health Effects

<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Ingestion</b>	Toxic if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. Causes skin irritation.
<b>Eyes</b>	Causes eye irritation.

#### Signs and Symptoms of Exposure

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

#### Additional Information

RTECS: VG9625000

## 12. ECOLOGICAL INFORMATION

#### Toxicity

Toxicity to daphnia and other aquatic invertebrates.	EC50 - Daphnia magna (Water flea) - 0.25 mg/l - 96 h
Toxicity to algae	EC50 - Chlorella pyrenoidosa - 1.1 - 72 mg/l - 72 h

#### Persistence and degradability

Biodegradability Biotic/Aerobic Chemical oxygen demand

#### Bioaccumulative potential

no data available

#### Mobility in soil

no data available

#### PBT and vPvB assessment

no data available

#### Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic organisms.

## 13. DISPOSAL CONSIDERATIONS

#### Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material

with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

**DOT (US)**

UN-Number: 2876 Class: 6.1 Packing group: III

Proper shipping name: Resorcinol

Reportable Quantity (RQ): 5000 lbs

Marine pollutant: No

Poison Inhalation Hazard: No

**IMDG**

UN-Number: 2876 Class: 6.1 Packing group: III EMS-No: F-A, S-A

Proper shipping name: RESORCINOL

Marine pollutant: No

**IATA**

UN-Number: 2876 Class: 6.1 Packing group: III

Proper shipping name: Resorcinol

#### 15. REGULATORY INFORMATION

**OSHA Hazards**

Target Organ Effect, Toxic by ingestion, Irritant

**DSL Status**

All components of this product are on the Canadian DSL list.

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components**

1,3-Benzenediol	CAS No. 108-46-3	Revision Date 1993-04-24
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**Pennsylvania Right To Know Components**

1,3-Benzenediol	CAS No. 108-46-3	Revision Date 1993-04-24
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**New Jersey Right To Know Components**

1,3-Benzenediol	CAS No. 108-46-3	Revision Date 1993-04-24
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**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**16. OTHER INFORMATION****Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard appropriate safety precautions.