

# **SAFETY DATA SHEET**

Creation Date 22-September-2009 Revision Date 10-June-2025 Revision Number 9

1. Identification

Product Name Resorcinol

Cat No.: AC132290000; AC132290010; AC132290050; AC132290500;

Acros Organics

One Reagent Lane

Fair Lawn, NJ 07410

AC132292500

**CAS-No** 108-46-3

**Synonyms** 1,3-Benzenediol; 1,3-Dihydroxybenzene

Recommended Use Laboratory chemicals.

**Uses advised against** Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Importer/Distributor

Fisher Scientific 112 Colonnade Road, Ottawa, ON K2E 7L6,

Canada

Tel: 1-800-234-7437

Manufacturer

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

**Emergency Telephone Number** 

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

### 2. Hazard(s) identification

Classification

WHMIS 2015 Classification Classified as hazardous under the Hazardous Products Regulations (SOR/2015-17)

Acute oral toxicity
Skin Corrosion/Irritation
Serious Eye Damage/Eye Irritation
Shin Sensitization
Specific target organ toxicity (single exposure)
Combustible Dusts
Category 1
Category 1
Category 1
Category 1

Label Elements

Signal Word

Danger

**Hazard Statements** 

\_\_\_\_\_

May form combustible dust concentrations in air Harmful if swallowed Causes skin irritation May cause an allergic skin reaction Causes serious eye irritation Causes damage to organs



#### **Precautionary Statements**

### Prevention

Keep container tightly closed

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Do not breathe dust/fumes/gas/mist/vapours/spray

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves/protective clothing/eye protection/face protection

#### Response

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell

IF ON SKIN: Wash with plenty of soap and water

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If exposed or concerned: Call a POISON CENTER/ doctor

Rinse mouth

If skin irritation or rash occurs: Get medical advice/attention

If eye irritation persists: Get medical advice/attention

Take off contaminated clothing and wash it before reuse

### Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### **Disposal**

Dispose of contents/container to an approved waste disposal plant

#### **Other Hazards**

Very toxic to aquatic organisms

Harmful to aquatic life with long lasting effects

Light sensitive

Contains a known or suspected endocrine disruptor

# 3. Composition/Information on Ingredients

| Component       | CAS-No   | Weight % |
|-----------------|----------|----------|
| 1,3-Benzenediol | 108-46-3 | <=100    |

### 4. First-aid measures

**General Advice** If symptoms persist, call a physician.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a physician.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if

symptoms occur.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Most important symptoms/effects None reasonably foreseeable. May cause allergic skin reaction. Symptoms of allergic

reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and

feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Notes to Physician Treat symptomatically

# 5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO2). Dry chemical. Water mist may be used to cool closed

containers. Chemical foam.

Unsuitable Extinguishing Media No information available

**Flash Point** 127 °C / 260.6 °F

**Method** - No information available

Autoignition Temperature 605 °C / 1121 °F

**Explosion Limits** 

UpperNo data availableLower1.4% @ 200°C

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

#### **Specific Hazards Arising from the Chemical**

Dust can form an explosive mixture with air. Containers may explode when heated. Do not allow run-off from fire-fighting to enter drains or water courses. Fine dust dispersed in air may ignite.

#### **Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO2).

# **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health Flammability Instability Physical hazards
3 1 1 N/A

### 6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust

formation.

Environmental Precautions Do not flush into surface water or sanitary sewer system. Do not allow material to

contaminate ground water system. Prevent product from entering drains. Local authorities

should be advised if significant spillages cannot be contained.

**Methods for Containment and Clean** Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed **Up** 

### 7. Handling and storage

Handling Do not get in eyes, on skin, or on clothing. Wear personal protective equipment/face

protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid dust

formation.

**Storage.** Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Protect from

direct sunlight. Store under an inert atmosphere. Keep container tightly closed in a dry and well-ventilated place. Protect from moisture. Incompatible Materials. Bases. Strong

oxidizing agents. Alkaline. Acid anhydrides. Acid chlorides. Metals.

### 8. Exposure controls / personal protection

### **Exposure Guidelines**

| Component       | Alberta                    | British      | Ontario TWAEV | Quebec                     | ACGIH TLV    | OSHA PEL             | NIOSH                      |
|-----------------|----------------------------|--------------|---------------|----------------------------|--------------|----------------------|----------------------------|
|                 |                            | Columbia     |               |                            |              |                      |                            |
| 1,3-Benzenediol | TWA: 10 ppm                | TWA: 10 ppm  | TWA: 10 ppm   | TWA: 10 ppm                | TWA: 10 ppm  | (Vacated) TWA:       | REL = 10 ppm               |
|                 | TWA: 45 mg/m <sup>3</sup>  | STEL: 20 ppm | STEL: 20 ppm  | TWA: 45 mg/m <sup>3</sup>  | STEL: 20 ppm | 10 ppm               | (TWA)                      |
|                 | STEL: 20 ppm               |              |               | STEL: 20 ppm               |              | (Vacated) TWA:       | $REL = 45 \text{ mg/m}^3$  |
|                 | STEL: 90 mg/m <sup>3</sup> |              |               | STEL: 90 mg/m <sup>3</sup> |              | 45 mg/m <sup>3</sup> | (TWA)                      |
|                 |                            |              |               | _                          |              | (Vacated) STEL:      | STEL: 20 ppm               |
|                 |                            |              |               |                            |              | 20 ppm               | STEL: 90 mg/m <sup>3</sup> |
|                 |                            |              |               |                            |              | (Vacated) STEL:      | _                          |
|                 |                            |              |               |                            |              | 90 mg/m <sup>3</sup> |                            |

#### Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH: NIOSH - National Institute for Occupational Safety and Health

#### **Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations

and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control

hazardous materials at source

#### Personal protective equipment

**Eye Protection** Goggles

Hand Protection Protective gloves

| Glove material                                      | Breakthrough time                 | Glove thickness | Glove comments         |
|---|-----------------------------------|-----------------|------------------------|
| Nitrile rubber<br>Neoprene<br>Natural rubber<br>PVC | See manufacturers recommendations | -               | Splash protection only |
| 1 10  |                                   |                 |                        |

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, gloves with care avoiding skin contamination.

### **Respiratory Protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly **Recommended Filter type:** Particulates filter conforming to EN 143

When RPE is used a face piece Fit Test should be conducted

#### **Environmental exposure controls**

Prevent product from entering drains. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

### 9. Physical and chemical properties

Physical StateSolidAppearanceBeigeOdoraromatic

Odor Threshold No information available

**pH** 4.4 55 g/l aq.sol

Melting Point/Range 109 - 111 °C / 228.2 - 231.8 °F

Boiling Point/Range281 °C / 537.8 °FFlash Point127 °C / 260.6 °FEvaporation RateNot applicable

Flammability (solid,gas)

No information available

Flammability or explosive limits

UpperNo data availableLower1.4% @ 200°CVapor Pressure1 mmHg @ 21.1 °CVapor DensityNot applicable

Specific Gravity

1.272
Solubility

140 g/100 ml

Partition coefficient; n-octanol/water

Autoignition Temperature

No data available
605 °C / 1121 °F

Decomposition Temperature> 281°CViscosityNot applicableMolecular FormulaC6 H6 O2Molecular Weight110.11

## 10. Stability and reactivity

Reactive Hazard None known, based on information available

**Stability** Hygroscopic. Air sensitive. Light sensitive.

Conditions to Avoid Avoid dust formation. Heat, flames and sparks. Excess heat. Exposure to air. Exposure to

light. Incompatible products. Exposure to moist air or water.

Incompatible Materials Bases, Strong oxidizing agents, Alkaline, Acid anhydrides, Acid chlorides, Metals

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions**None under normal processing.

### 11. Toxicological information

**Acute Toxicity** 

**Product Information** 

Oral LD50 Category 3.

Component Information

| Component       | LD50 Oral       | LD50 Dermal         | LC50 Inhalation           |  |  |
|-----------------|-----------------|---------------------|---------------------------|--|--|
| 1,3-Benzenediol | 500 mg/kg (Rat) | 2830 mg/kg (Rabbit) | LC50 > 7.8 mg/L (rat) 8 h |  |  |

Resorcinol

**Toxicologically Synergistic** 

No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes and skin

Sensitization No information available

The table below indicates whether each agency has listed any ingredient as a carcinogen. Carcinogenicity

| Component       | CAS-No   | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|-----------------|----------|------------|------------|------------|------------|------------|
| 1,3-Benzenediol | 108-46-3 | Not listed |

**Mutagenic Effects** Not mutagenic in AMES Test

**Reproductive Effects** No information available. **Developmental Effects** No information available. **Teratogenicity** No information available.

None known STOT - single exposure STOT - repeated exposure None known

**Aspiration hazard** No information available

delayed

Symptoms / effects,both acute and Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors

| Component       | EU - Endocrine Disrupters | EU - Endocrine Disruptors - | Japan - Endocrine Disruptor |
|-----------------|---------------------------|-----------------------------|-----------------------------|
|                 | Candidate List            | Evaluated Substances        | Information                 |
| 1,3-Benzenediol | Group I Chemical          | High Exposure Concern       | Not applicable              |

**Other Adverse Effects** The toxicological properties have not been fully investigated.

### 12. Ecological information

### **Ecotoxicity**

The product contains following substances which are hazardous for the environment. Very toxic to aquatic organisms.

| Component       | Freshwater Algae        | Freshwater Fish            | Microtox                | Water Flea            |
|-----------------|-------------------------|----------------------------|-------------------------|-----------------------|
| 1,3-Benzenediol | EC50 = 97 mg/l (OECD TG | LC50: = 53.4 mg/L, 96h     | EC50 = 265 mg/L 30 min  | LC50 = 1.00 mg/L, 48h |
|                 | 201)                    | (Pimephales promelas)      | EC50 = 375 mg/L 5 min   | (Daphnia magna)       |
|                 |                         | LC50: 36 - 100 mg/L, 96h   | EC50 = 543  mg/L  48  h |                       |
|                 |                         | static (Pimephales         |                         |                       |
|                 |                         | promelas)                  |                         |                       |
|                 |                         | LC50: = 100 mg/L, 96h      |                         |                       |
|                 |                         | flow-through (Pimephales   |                         |                       |
|                 |                         | promelas)                  |                         |                       |
|                 |                         | LC50: > 100 mg/L, 96h      |                         |                       |
|                 |                         | flow-through (Oncorhynchus |                         |                       |
|                 |                         | mykiss)                    |                         |                       |
|                 |                         | , ,                        |                         |                       |

Persistence and Degradability Persistence is unlikely

**Bioaccumulation/ Accumulation** No information available.

**Mobility** . Will likely be mobile in the environment due to its water solubility.

| Component       | log Pow |
|-----------------|---------|
| 1,3-Benzenediol | 0.8     |

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### 13. Disposal considerations

#### **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.

| Component                  | RCRA - U Series Wastes | RCRA - P Series Wastes |
|----------------------------|------------------------|------------------------|
| 1,3-Benzenediol - 108-46-3 | U201                   | -                      |

# 14. Transport information

DOT

UN-No UN2876
Proper Shipping Name UN2876
RESORCINOL

Hazard Class 6.1 Packing Group III

TDG

UN-No UN2876
Proper Shipping Name RESORCINOL

Hazard Class 6.1 Packing Group III

<u>IATA</u>

UN-No UN2876
Proper Shipping Name RESORCINOL

Hazard Class 6.1 Packing Group

IMDG/IMO

UN-No UN2876
Proper Shipping Name RESORCINOL

Hazard Class 6.1
Packing Group

# 15. Regulatory information

#### **International Inventories**

| Component       | CAS-No   | DSL   | NDSL | TSCA  | TSCA In<br>notific<br>Active- | ation - | EINECS    | ELINCS | NLP |
|-----------------|----------|-------|------|-------|-------------------------------|---------|-----------|--------|-----|
| 1,3-Benzenediol | 108-46-3 | Х     | -    | Х     | ACTIVE                        |         | 203-585-2 | -      | -   |
|                 |          |       |      |       |                               |         |           |        |     |
| Component       | CAS-No   | IECCC | KECI | ENICS | ICHI                          | TCCI    | AICS      | NZIAC  |     |

| Component       | CAS-No   | IECSC | KECL     | ENCS | ISHL | TCSI | AICS | NZIoC | PICCS |
|-----------------|----------|-------|----------|------|------|------|------|-------|-------|
| 1,3-Benzenediol | 108-46-3 | Х     | KE-02557 | X    | X    | X    | X    | X     | X     |

#### Legend:

X - Listed '-' - Not Listed

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**IECSC** - Chinese Inventory of Existing Chemical Substances **KECL** - Korean Existing and Evaluated Chemical Substances

**ENCS** - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

#### Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

| Component | Canada - National Pollutant | Canadian Environmental   | Canada's Chemicals Management |
|-----------|-----------------------------|--------------------------|-------------------------------|
| ·         | Release Inventory (NPRI)    | Protection Agency (CEPA) | Plan (CEPA)                   |
|           | •                           |                          | •                             |

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|                 |                  | - List of Toxic Substances |  |
|-----------------|------------------|----------------------------|--|
| 1,3-Benzenediol | Part 4 Substance |                            |  |

Legend

NPRI - National Pollutant Release Inventory

### Other International Regulations

#### Authorisation/Restrictions according to EU REACH

| ſ | Component       |                       | REACH (1907/2006) - Annex XVII -   |                                   |
|---|-----------------|-----------------------|------------------------------------|-----------------------------------|
| - |                 | Substances Subject to | Restrictions on Certain Dangerous  | 1907/2006) article 59 - Candidate |
| - |                 | Authorization         | Substances                         | List of Substances of Very High   |
| L |                 |                       |                                    | Concern (SVHC)                    |
| ſ | 1,3-Benzenediol | -                     | Use restricted. See entry 75.      | -                                 |
| L |                 |                       | (see link for restriction details) |                                   |

#### **REACH links**

1,3-Benzenediol

https://echa.europa.eu/substances-restricted-under-reach

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

| Component       | CAS-No   | OECD HPV  | Persistent Organic<br>Pollutant  | Ozone Depletion<br>Potential  | Restriction of<br>Hazardous<br>Substances (RoHS) |
|-----------------|----------|---|--|-------------------------------|--|
| 1,3-Benzenediol | 108-46-3 | Listed  | Not applicable   | Not applicable                | Not applicable                                   |
| Component       | CAS-No   | Seveso III Directive<br>(2012/18/EC) -<br>Qualifying Quantities<br>for Major Accident<br>Notification | Seveso III Directive<br>(2012/18/EC) -<br>Qualifying Quantities<br>for Safety Report<br>Requirements | Rotterdam<br>Convention (PIC) | Basel Convention<br>(Hazardous Waste)            |

### 16. Other information

Prepared By Regulatory Affairs

108-46-3

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com

Not applicable

Creation Date22-September-2009Revision Date10-June-2025Print Date10-June-2025

**Revision Summary**This document has been updated to comply with the requirements of WHMIS 2015 to align

with the Globally Harmonised System (GHS) for the Classification and Labelling of

Not applicable

Not applicable

Annex I - Y39

Chemicals.

#### **Disclaimer**

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

**End of SDS**