

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)
Classifications according to Regulation (EC) No 1272/2008.
Printdate 16 Aug 2022

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product name:

Resorcinol

1.1. Catalog No.:

677727

1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical
uses: R&D

1.3. Uses advised against:

HPC Standards GmbH
Am Wieseneck 7

04451 Cunnersdorf
Deutschland

Tel. +49 34291 3372-36
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1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36
This number is only available during office hours.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4), H302

Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

Skin sensitisation (Sub-category 1B), H317

Specific target organ toxicity - single exposure, Oral (Category 1), Central nervous system, Blood, H370

Specific target organ toxicity - single exposure, Oral (Category 2), Respiratory system, H371

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 3), H412

2.2. Label elements

2.2.1. Pictogram



2.2.2.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram Signal word Danger

Hazard statement(s)

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H370 Causes damage to organs (Central nervous system, Blood, Respiratory system) if swallowed.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P273 Avoid release to the environment.

P280 Wear eye protection/ face protection.

P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/ physician.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

Supplemental Hazard

Statements

none

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : 1,3-Benzenediol

Formula : C₆H₆O₂

Molecular weight : 110,11 g/mol

CAS-No. : 108-46-3

EC-No. : 203-585-2

Index-No. : 604-010-00-1

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component Classification Concentration

1,3-Benzenediol

CAS-No.

EC-No.

Index-No.

108-46-3

203-585-2

604-010-00-1

Acute Tox. 4; Skin Irrit. 2; Eye

Irrit. 2; Skin Sens. 1B; STOT

SE 1; STOT SE 2; Aquatic

Acute 1; Aquatic Chronic 3;

H302, H315, H319, H317,

H370, H371, H400, H412

M-Factor - Aquatic Acute: 1

<= 100 %

3.1.1. Formula

C₆H₆O₂

3.1.2. Molecular Weight (g/mol)

110.11

3.1.3. CAS-No.

108-46-3

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

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. Take victim immediately to hospital. 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.

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 data available

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

6.2 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.

6.3 Methods and materials for containment and cleaning up

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

6.4 Reference to other sections

For disposal see section 13

7. HANDLING AND STORAGE

7.1 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.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

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

Air and light sensitive.

Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

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

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- a) Appearance Form: solid
 - b) Odour No data available
 - c) Odour Threshold No data available
 - d) pH 4,5
 - e) Melting point/freezing point
Melting point/range: 109 - 112 °C - lit.
 - f) Initial boiling point and boiling range
178 °C at 21 hPa - lit.
 - g) Flash point 127 °C - closed cup
 - h) Evaporation rate No data available
 - i) Flammability (solid, gas) No data available
 - j) Upper/lower flammability or explosive limits
Lower explosion limit: 1,4 % (V)
 - k) Vapour pressure 1 hPa at 21,1 °C
 - l) Vapour density No data available
 - m) Relative density 1,28 g/cm³ at 20 °C
 - n) Water solubility 717 g/l at 25 °C - soluble
 - o) Partition coefficient: octanol/water
log Pow: 0,8 at 20 °C
 - p) Auto-ignition temperature
No data available
 - q) Decomposition temperature
No data available
 - r) Viscosity No data available
 - s) Explosive properties Not explosive
 - t) Oxidizing properties No data available
- ### 9.2 Other safety information
- Surface tension 72 mN/m at 20 °C
 - Dissociation constant 9,81 at 25 °C

10. STABILITY AND REACTIVITY

- 10.1 Reactivity
No data available
 - 10.2 Chemical stability
Stable under recommended storage conditions.
 - 10.3 Possibility of hazardous reactions
No data available
 - 10.4 Conditions to avoid
No data available
 - 10.5 Incompatible materials
Oxidizing agents, Iron and iron salts
 - 10.6 Hazardous decomposition products
Other decomposition products - No data available
- In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects
Acute toxicity
LD50 Oral - Rat - male and female - 510 mg/kg
(OECD Test Guideline 401)

LD50 Dermal - Rabbit - male - 2.830 mg/kg
Skin corrosion/irritation
Skin - Rabbit
Result: Irritating to skin. - 24 h
Serious eye damage/eye irritation
Eyes - Rabbit
Result: Irreversible effects on the eye - 72 h
Respiratory or skin sensitisation
in vivo assay - Mouse
Result: The product is a skin sensitiser, sub-category 1B.
(OECD Test Guideline 429)
Germ cell mutagenicity
Ames test
Salmonella typhimurium
Result: negative
Rat - male and female
Result: negative
Carcinogenicity
Carcinogenicity - Rat - male and female - Oral
No significant adverse effects were reported
IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (1,3-Benzenediol)
Reproductive toxicity
Reproductive toxicity - Rat - male and female - Oral
No significant adverse effects were reported
Developmental Toxicity - Rat - Oral
No significant adverse effects were reported
Specific target organ toxicity - single exposure
No data available
Specific target organ toxicity - repeated exposure
No data available
Aspiration hazard
No data available
Additional Information
Repeated dose toxicity
Rat - male and female - Oral - NOAEL : 80 mg/kg - OECD Test Guideline 408
RTECS: VG9625000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
Toxicity to fish flow-through test LC50 - Pimephales promelas (fathead minnow) - 29,5 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates
semi-static test EC50 - Daphnia magna (Water flea) - 1 mg/l - 48 h
(OECD Test Guideline 202)
Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata (green algae) - > 97 mg/l - 72 h
(OECD Test Guideline 201)
Toxicity to bacteria Respiration inhibition EC50 - activated sludge - 79 mg/l - 3 h
(OECD Test Guideline 209)
12.2 Persistence and degradability
Biodegradability aerobic - Exposure time 14 d
Result: 66,7 % - Readily biodegradable
(OECD Test Guideline 301C)
12.3 Bioaccumulative potential
No data available
12.4 Mobility in soil
No data available
12.5 Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Other adverse effects
Very toxic to aquatic life

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. 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

14.1 UN number

ADR/RID: 2876 IMDG: 2876 IATA: 2876

14.2 UN proper shipping name

ADR/RID: RESORCINOL

IMDG: RESORCINOL

IATA: Resorcinol

14.3 Transport hazard class(es)

ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: yes IMDG Marine pollutant: yes IATA: no 14.6 Special precautions for user

No data available

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

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

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16. OTHER 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 to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!