

Section 1. Product and Company Identification

Product Name Resorcinol
CAS Number 108-46-3

Parchem - fine & specialty chemicals
415 Huguenot Street
New Rochelle, NY 10801
☎ (914) 654-6800 ☎ (914) 654-6899
🌐 parchem.com ✉ info@parchem.com

EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

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

Acute toxicity, Oral (Category 4), H302
Skin irritation (Category 2), H315
Serious eye damage (Category 1), H318
Skin sensitization (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

GHS Label Elements

Pictograms:



Signal word: DANGER

Hazard and precautionary statements

Hazard Statements

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H370 Causes damage to organs (Central nervous system, Blood, Respiratory system) if swallowed.
H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.



Precautionary Statements

- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 + P310 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 or doctor/physician.
P307 + P311 IF exposed: Call a POISON CENTER or doctor/physician.
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.
P362 Take off contaminated clothing and wash before reuse.
P391 Collect spillage.
P405 Store locked up.
P501 Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS: None

Section 3. Composition / Information on Ingredients

Common Name	Resorcinol
Synonym(s)	1,3-Benzenediol
Formula	C ₆ H ₆ O ₂
CAS Number	108-46-3

COMPONENT	CAS NUMBER	CONCENTRATION
Resorcinol	108-46-3	≤ 100%

Section 4. First Aid Measures

Description of first-aid measures

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

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

Skin contact: Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

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

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.



Consult a physician.

Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labelling and/or in section 11.

Indication of any immediate medical attention and special treatment needed: No data available

Section 5. Firefighting Measures

Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture: Carbon oxides

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Further information: No data available

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

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. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections: For disposal see section 13.

Section 7. Handling and Storage

Precautions for safe handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage, including any incompatibilities: 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

Section 8. Exposure Controls / Personal Protection
--

Control parameters

Components with workplace control parameters

Component	CAS Number	Value	Control Parameters	Basis
1,3-Benzenediol	108-46-3	TWA	10 ppm	USA ACGIH Threshold Limit Values (TLV)
	Remarks	Eye Irritation Skin Irritation Not classifiable as a human carcinogen		
		TWA	10.000000 ppm	USA ACGIH Threshold Limit Values (TLV)
		Skin & Eye Irritation Not classifiable as a human carcinogen		
		STEL	20.000000 ppm	USA ACGIH Threshold Limit Values (TLV)
		Skin & Eye Irritation Not classifiable as a human carcinogen		
		STEL	20 ppm	USA ACGIH Threshold Limit Values (TLV)
		Eye Irritation Skin Irritation Not classifiable as a human carcinogen		
		TWA	10.000000 ppm 45.000000 ppm	USA. NIOSH Recommended Exposure Limits
		ST	20.000000 ppm 90.000000 ppm	USA. NIOSH Recommended Exposure Limits
		TWA	10 ppm 45 mg/m ³	USA. NIOSH Recommended Exposure Limits
		ST	20 ppm 90 mg/m ³	USA. NIOSH Recommended Exposure Limits
		TWA	10 ppm 45 mg/m ³	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		STEL	20 ppm 90 mg/m ³	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

Biological occupational exposure limits

Component	CAS Number	Parameters	Value	Biological Specimen	Basis
1,3-Benzenediol	108-46-3	Methemoglobin	1.500%	In Blood	ACGIH - Biological Exposure Indices (BEI)
	Remarks	During or end of shift			
		Methemoglobin	1.5% Hb	In Blood	ACGIH - Biological Exposure Indices (BEI)
		During or at the end of the shift			

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.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance: Solid

Odor: No data available

Odor Threshold: No data available

pH: 4.5

Melting point/freezing point: 109 - 112°C (228 - 234°F) - lit.

Initial boiling point and boiling range: 178 °C (352 °F) at 21 hPa (16 mmHg) - lit.

Flash point (Closed Cup): 127°C (261°F)

Evaporation rate: No data available

Flammability (solid, gas): No data available
Upper/lower flammability or explosive limits: Lower explosion limit: 1.4 %(V)
Vapor pressure: 1 hPa (1 mmHg) at 21.1°C (70.0°F)
Vapor density: No data available
Relative density: 1.28 g/cm³ at 20°C (68°F)
Water solubility: 717 g/l at 25°C (77°F) - soluble
Partition coefficient (n-octanol/water): log Pow: 0.8 at 20°C (68°F)
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity: No data available
Explosive properties: Not explosive
Oxidizing properties: No data available

Other safety information

Surface tension: 72 mN/m at 20°C (68°F)
Dissociation constant: 9.81 at 25°C (77°F)

Section 10. Stability and Reactivity

Reactivity: No data available
Chemical stability: Stable under recommended storage conditions.
Possibility of hazardous reactions: No data available
Conditions to avoid: No data available
Incompatible materials: Oxidizing agents, Iron and iron salts.

Hazardous decomposition products

Other decomposition products: No data available
In the event of fire: see section 5

Section 11. Toxicological Information

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 sensitization

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)

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

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.

Section 12. Ecological Information

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)

Persistence and degradability

Biodegradability aerobic - Exposure time 14 d
Result: 66.7 % - Readily biodegradable
(OECD Test Guideline 301C)

Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

DOT (US)

UN number: 2876

Class: 6.1

Packing group: III

Proper shipping name: Resorcinol

Reportable Quantity (RQ): 5000 lbs

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: Yes

IATA

UN number: 2876

Class: 6.1



Packing group: III
Proper shipping name: Resorcinol

Section 15. Regulatory Information

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

SARA 313 Components: 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

Massachusetts Right to Know Components

1,3-Benzenediol (CAS-No. 108-46-3)

Revision Date 1994-04-01

Pennsylvania Right to Know Components

1,3-Benzenediol (CAS-No. 108-46-3)

Revision Date 1994-04-01

New Jersey Right to Know Components

1,3-Benzenediol (CAS-No. 108-46-3)

Revision Date 1994-04-01

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.

HMIS Rating

Health: 2

Flammability: 1

Reactivity: 0

NFPA Rating

Health: 2

Flammability: 1

Reactivity: 0

Section 16. Other Information

Disclaimer: 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.

REVISION DATE: 12/1/2015