

SAFETY DATA SHEET

Version: v2
Revision Date: 2026-03-18
Print Date: 2026-03-18

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

1.1 Product identifiers

Product name : Resorcinol
Product Number : R397588
Brand : aladdin
CAS-No. : 108-46-3

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

Identified uses : Laboratory chemicals, Manufacture of substances.

1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION
Address : 14078 Meridian Parkway,
Riverside, CA. 92518
Telephone : +1 (833) 552-7181
Fax : no data available

1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300
CHEMTREC®, Outside the USA :

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Acute Toxicity, Oral (Category 4), H302
Acute toxicity, transdermal (Category 5), H313
Skin Corrosion/Irritation (Category 2), H315
Severe eye injury/eye irritation (Category 2A), H319
Skin allergy (category 1B), H317
Specific target organ systemic toxicity (single exposure), oral (category 1), central nervous system, blood, H370
Specific target organ systemic toxicity (single exposure), oral (category 2), respiratory system, H371
Acute (short-term) aquatic hazard (Category 1), H400

Long term aquatic hazard (category 3), H412

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H319	Causes serious eye irritation
H331	Toxic if inhaled
H360	May damage fertility or the unborn child
H370	Causes damage to organs
H372	Causes damage to organs through prolonged or repeated exposure
H301+H311	Toxic if swallowed or in contact with skin
H335+H336	May cause respiratory irritation, May cause drowsiness or dizziness

Precautionary statement(s)

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash hands [and ...] thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P330	Rinse mouth.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor/...
P370+P378	In case of fire: Use ... to extinguish.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to an approved waste disposal plant.

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Synonyms : no data available

Formula : C₆H₆O₂
Molecular weight : 110.11

Component	Classification	Concentration
Resorcinol		
CAS-No. : 108-46-3	Acute toxicity category 4; Acute toxicity category 5; Skin	
EC-No. : 203-585-2	corrosion/irritation category 2; Severe eye injury/eye irritation category 2A; Skin allergy category 1; Specific target organ systemic toxicity (single exposure) category 1; Specific target organ systemic toxicity (single exposure) category 2; Acute (short-term) aquatic hazard category 1; Long term aquatic hazard category 3; H302, H313, H315, H319, H317, H370, H371, H400, H412 M-Factor - Aquatic Act: 1	

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this material 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. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

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

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water Foam Carbon dioxide (CO₂) Dry powder

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

Carbon oxides Combustible. Pay attention to flashback. Vapors are heavier than air and may spread along floors. Development of hazardous combustion gases or vapours possible in the event of fire. Forms explosive mixtures with air at ambient temperatures.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

SECTION 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.

6.2 Environmental precautions

Do not let product enter drains.

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.

SECTION 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.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep the container tightly closed and store in a dry and ventilated place. Air sensitive ; Light

sensitive , Store at room temperature, filled with argon, away from light, and dry.

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 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. The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., 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 fullface 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

If safety requires, prevent further leakage or spillage. Do not let the product enter the sewer.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	form: liquid color: Colorless Transparent
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	no data available
f) Initial boiling point and boiling range	no data available
g) Flash point	no data available
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	no data available
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties N	no data available
t) Oxidizing properties N	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

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Risk of explosion with: Oxidizing agents perchloric acid perchlorates salts of oxyhalogenic acids chromium(VI) oxide halogen oxides nitrogen oxides nonmetallic oxides chromosulfuric acid chlorates hydrides zinc diethyl halogens powdered magnesium hydrogen peroxide Nitric acid sulfuric acid permanganic acid sodium hypochlorite

Exothermic reaction with: acid halides Acid anhydrides Reducing agents acids Bromine Chlorine Chloroform magnesium tetrachloromethane Risk of ignition or formation of inflammable gases or vapours with: Fluorine Oxides of phosphorus Raney-nickel Generates dangerous gases or fumes in contact with: Alkaline earth metals Alkali metals

10.4 Conditions to avoid

Warming.

10.5 Incompatible materials

various plastics, magnesium, zinc alloys

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - Male and Female -510 mg/kg

(OECD Testing Guideline 401)

Inhalation: No data available

LD50 transdermal rabbit male -2830 mg/kg

Remarks: (ECHA)

Skin corrosion/irritation

Skin - Rabbit Result: Irritation to the skin. - 24 h Remarks: (ECHA) Note: Classified according to Annex 6 (Tables 3.1/3.2) of EU CLP Regulation 1272/2008

Serious eye damage/eye irritation

Eyes - Rabbit Result: Irreversible impact on eyes -72 hours Remarks: (ECHA)

Respiratory or skin sensitisation

Local Lymph Node Test (LLNA) - Mouse Result: Positive (OECD Testing Guideline 429)

Germ cell mutagenicity

Test Type: Ames Test System: Salmonella Typhimurium Metabolic Activation: with or without metabolic activation

Method: OECD Test Guideline 471 Result: Negative Test Type: Mutational (Mammalian Cell Test): Micronucleus

positive Testing System: Human Lymphocyte Metabolic Activation: With or Without Metabolic Activation Method:

OECD Testing Guideline 487 Result: Positive Test Type: Sister Chromatin Exchange Test Testing System: Chinese

Hamster Ovary Cell Metabolic Activation: With or Without Metabolic Activation Result: Positive Remarks: (ECHA)

Test Type: In vitro Mammalian Cell Gene Mutation Test System: Mouse Lymphoma Cell Metabolic Activation: With

or Without Metabolic Activation Method: OECD Testing Guideline 476 Result: Positive results have been obtained

in certain in vitro experiments. Test type: Sister chromatid exchange test Species: Rat Infection route: Oral result: Negative Remarks: (ECHA) Test type: Micronucleus test Species: Rat Cell type: Bone marrow Infection route: Oral method: OECD testing guidelines 474 Results: Negative Test type: In vivo test Species: Drosophila melanogaster Infection route: Oral result: Negative Remarks: (ECHA) Test type: Sister chromatid exchange test Species: Rat Infection route: Intraperitoneal result: Negative Remarks: (ECHA) Test type: Sister chromatid exchange test Species: Rat Infection route: Transdermal result: Negative Remarks: (ECHA)

Carcinogenicity

no data available

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

Oral - can damage organs. -Central nervous system, blood Oral - may damage organs. -Respiratory system

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

Repeated toxicity - rats - male and female - oral - level of no observed harmful effects -80 mg/kg

Registration of Toxic Effects of Chemical Substances: VG9625000

To our knowledge, the chemical, physical, and toxic properties of this substance have not been fully studied.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity test on fish using flow-through method LC50- Pimephales promelas -29.5 mg/l -96 h (US-EPA) against water fleas and other aquatic invertebrates

Semi static toxicity test of vertebrate animals LC50- Daphnia magna -1 mg/l -48 hours (OECD Testing Guidelines 202)

Static toxicity test on algae ErC50- Pseudokirchneriella subcapita (green algae) ->97 mg/l -72 h (OECD testing guidelines 201)

Toxicity to bacteria EC50- activated sludge -79 mg/l -3 h (OECD testing guideline 209)

Toxicity to fish (chronic toxicity) LC50- Oncorhynchus mykiss (rainbow trout) -260 mg/l -60 d Remarks: (ECHA)

Toxicity (chronic toxicity) to Daphnia magna and other aquatic invertebrates - Flow test NOEC - Daphnia magna - >=0.172 mg/l -21 days (OECD Test Guideline 211)

12.2 Persistence and degradability

Biodegradability Result: 99 % - Readily biodegradable. (OECD Test Guideline 301D) Biochemical Oxygen Demand (BOD) 600 - 1,120 mg/g Remarks: (IUCLID) Chemical Oxygen Demand (COD) 1,420 mg/g Remarks: (IUCLID)

Theoretical oxygen demand 1,500 mg/g Remarks: (Lit.) Ratio BOD/ThBOD 76 % Remarks: Closed Bottle

test(IUCLID)

12.3 Bioaccumulative potential

Bioaccumulation Cyprinus carpio (Carp) - 72 d at 20 °C - 5 mg/l(Methanol) Bioconcentration factor (BCF): 1.0

12.4 Mobility in soil

Will not adsorb on soil.

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

Additional ecological information Avoid release to the environment. Stability in water at 19 °C83 - 91 % - 72 h
Remarks: Hydrolyzes on contact with water.Hydrolyzes readily.

SECTION 13:

13.1 Disposal considerations

Product

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN number: 2876	Packing group: III	Class: 6.1
Proper shipping name: RESORCINOL	Reportable Quantity(RQ):no data available	Poison Inhalation Hazard:no data available
Environmental Hazards: yes		

IMDG

UN number: 2876	Packing group: III	EMS-No:no data available
Proper shipping name: RESORCINOL		

IATA

UN number: 2876	Packing group: III	Class: 6.1
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ALADDIN SCIENTIFIC CORPORATION
14078 Meridian Parkway, Riverside, CA. 92518

Proper shipping name: RESORCINOL

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

SECTION 16: Other information

Prepared By	Regulatory Affairs ALADDIN SCIENTIFIC CORPORATION Email: QualityAssurance@aladdinsci.com
Creation Date	01-Jul-2025
Revision Date	18-Mar-2026
Print Date	18-Mar-2026
Revision Summary	SDS sections updated v2

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