SAFETY DATA SHEET

Version: v1 Revision Date: 2024-01-16 Print Date: 2024-01-23

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

1.1 Product identifiers

| : Pyrocatechol |
|----------------|
| : P431587 |
| : aladdin |
| : 120-80-9 |
| |

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 3), H301

Acute toxicity, Dermal (Category 3), H311

Skin irritation (Category 2), H315

Serious eye damage (Category 1), H318

Skin sensitization (Category 1), H317

Germ cell mutagenicity (Category 2), H341

Carcinogenicity (Category 1B), H350

For the full text of the H-Statements mentioned in this Section, see Section 16.



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2.2 GHS Label elements, including precautionary statements

| Pictogram | |
|----------------------------|--|
| Signal word | Danger |
| Hazard statement(s) | |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H341 | Suspected of causing genetic defects |
| H351 | Suspected of causing cancer |
| H401 | Toxic to aquatic life |
| H301+H311 | Toxic if swallowed or in contact with skin |
| Precautionary statement(s) | |
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P261 | Avoid breathing dust/fume/gas/mist/vapors/spray. |
| P264 | Wash hands [and] 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. |
| P330 | Rinse mouth. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor/ |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact |
| | lenses if present and easy to do - continue rinsing. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| P333+P313 | IF SKIN irritation or rash occurs: Get medical advice/attention. |
| P337+P313 | IF eye irritation persists: Get medical advice/attention. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to an approved waste disposal plant. |
| P302+P352+P312 | IF ON SKIN: Wash with plenty of water.Call a POISON CENTER/ doctor if you feel unwell. |

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

SECTION 3: Composition/information on ingredients

3.1 **Substances**

| Synonyms | : 2-Hydroxyphenol, 1,2-Benzenediol, 1,2-Dihydroxybenzene, Catechol |
|----------|--|
| Formula | : C6H6O2 |



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≥99.5%

| Molecular weight | : | 110.11 |
|------------------|---|-----------|
| CAS No. | : | 120-80-9 |
| EC-NO. | : | 204-427-5 |

| Component | Classification | Concentration |
|--------------|---|--------------------------|
| Pyrocatechol | | |
| | Acute Tox. 3; Skin Irrit. 2; Eye Dam. 1; Skin Sens. 1; Muta. 2; Carc. 1B; H301, H311, H315, H318, H317, H341, H350 | purified by sublimation, |

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance. If inhaled

After inhalation: fresh air. Call in physician.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses. If swallowed

If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.

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

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. Vapors are heavier than air and may spread along floors. Forms explosive mixtures



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with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Work under hood. Do not inhale substance/mixture.Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Hazard composition and occupational exposure limits



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| Component | CAS No. | Value | Control parameters | Basis | |
|-------------------|----------|--------------------------|-----------------------|----------------------------|--|
| Durranata alta al | 120.00.0 | | F a a a | U.S.A. ACGIH threshold | |
| Pyrocatechol | 120-80-9 | TWA | 5 ppm | limit value (TLV) | |
| | | | | | |
| | Note | | | animal carcinogens | |
| | | unknown | to humans | | |
| | | TWA | 5 mg/m3 | USA. OSHA - TABLE Z-1 | |
| | | | | Limits for Air | |
| | | | | Contaminants - 1910.1000 | |
| | | Skin symt | nbol | | |
| | | STEL | 20 ppm | USA. OSHA - TABLE Z-1 | |
| | | | | Limits for Air | |
| | | | | Contaminants - 1910.1000 | |
| | | Skin symt | bol | | |
| | | TWA | 5 ppm20 | U.S.A. NIOSH | |
| | | | mg/m3 | recommended exposure | |
| | | | | limits | |
| | | May have skin absorption | | | |
| | | PEL | 5 ppm20 | Allowable exposure limits | |
| | | | mg/m3 | for chemical pollutants in | |
| | | | | California (article 107, | |
| | | | | paragraph 8) | |
| | | Skin | 1 | <u> </u> | |
| | | | | | |

Biological limits

| Component | CAS No. | parameters | Value | Biological | Basis |
|-----------|---------|------------|-------|------------|-------|
| | | | | specimens | |
| | | | | | |



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| Pyrocatechol | 120-80-9 | Methemoglobin | 1.5% Hb | In the | ACGIH - |
|--------------|----------|-------------------|---------|--------|-------------------|
| | | | | blood | biological limits |
| | | | | | (BEI) |
| | Note | During or after w | vork | | |
| | | | | | |

8.2 Exposure controls

Appropriate engineering controls

Replace contaminated clothing immediately Use skin protective lotion. Wash hands and face after using this substance

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate

government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety

goggles

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

protective clothing

Respiratory protection

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following

standards: DIN EN 143, DIN 14387 and other accompanying standards relating to

the used respiratory protection system.

Recommended Filter type: Filter type P3

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory

protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

- Control of environmental exposure
- Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| a) Appearance | form: Crystals,Powder,Flake color: White to Yellow,Light Brown |
|--|--|
| b) Odour | no data available |
| c) Odour Threshold | no data available |
| d) pH | no data available |
| e) Melting point/freezing point | 100-103 °C (lit.) |
| f) Initial boiling point and boiling range | 245°C |
| g) Flash point | 127 °C - closed cup |

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| 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 | 1.371 | |
| n) Water solubility | Soluble in water, pyridine, chloroform, benzene, carbon tetrachloride, ether | |
| and acetate. | | |
| 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

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Risk of explosion with: Oxidizing agents nitric acid (conc.) can decompose violently in contact with: Exothermic reaction with: Bases Acid anhydrides alkali compounds

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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> Acute toxicity LD50 Oral - Rat - male - 300 mg/kg Remarks: (ECHA) Inhalation: No data available LD50 Dermal - Rat - male and female - 600 mg/kg (OECD Test Guideline 402) Remarks: (Regulation (EC) No 1272/2008, Annex VI) Skin corrosion/irritation Skin - Rabbit Result: Irritating to skin. - 24 h (Draize Test) Serious eye damage/eye irritation Eyes - Rabbit Result: Causes serious eye damage. - 24 - 72 h (Draize Test) Remarks: (ECHA) Respiratory or skin sensitisation Freund's complete adjuvant test - Guinea pig Result: positive Remarks: (ECHA) Germ cell mutagenicity Suspected of causing genetic defects. Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Metabolic activation: without metabolic activation Method: OECD Test Guideline 476 Result: positive Test Type: comet assay Species: Rat Application Route: Oral Result: positive Remarks: (ECHA) Carcinogenicity no data available Reproductive toxicity no data available 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 RTECS: UX1050000

Cough, Shortness of breath, Headache, Nausea, Vomiting To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish flow-through test LC50 - Pimephales promelas (fathead minnow) -

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9,22 mg/l - 96 h

(OECD Test Guideline 203)

Toxicity to daphnia

and other aquatic

invertebrates

semi-static test EC50 - Daphnia magna (Water flea) - 1,09 mg/l - 48h

(OECD Test Guideline 202)

Toxicity to algae ErC50 - Chlorella vulgaris (Fresh water algae) - 22 mg/l - 96 h

(OECD Test Guideline 201)

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 14 d Result: 96 % - 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

no data available

12.6 Other adverse effects

no data available

SECTION 13:

13.1 Disposal considerations

Product Dispose of the remaining and non recyclable solution to a licensed company. Contaminated packaging no data available

SECTION 14: Transport information

DOT (US) UN number: 2811

Packing group: III

Class: 6.1

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| Proper shipping name: TOXIC SOLID, | Reportable Quantity(RQ): no data | Poison Inhalation Hazard: no data | |
|---|----------------------------------|-----------------------------------|--|
| ORGANIC, N.O.S. (Pyrocatechol) | available | available | |
| Environmental Hazards: no | | | |
| IMDG | | | |
| UN number: 2811 | Packing group: III | EMS-No: no data available | |
| Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Pyrocatechol) | | | |
| ΙΑΤΑ | | | |
| UN number: 2811 | Packing group: III | Class: 6.1 | |
| Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Pyrocatechol) | | | |
| | | | |

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 | 07-Sep-2023 |
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