

ALADDIN SCIENTIFIC CORPORATION  
14078 Meridian Parkway, Riverside, CA. 92518

# SAFETY DATA SHEET

Version: v1  
Revision Date: 2025-09-12  
Print Date: 2025-09-18

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

### 1.1 Product identifiers

Product name : Coumarin  
Product Number : C104165  
Brand : aladdin  
CAS-No. : 91-64-5

### 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, transdermal (category 3), H311

Skin allergy (category 1), H317

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H301 Toxic if swallowed

H302 Harmful if swallowed

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H317	May cause an allergic skin reaction
H373	Causes damage to organs through prolonged or repeated exposure
<b>Precautionary statement(s)</b>	
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
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.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P321	Specific treatment (see ... on this label).
P330	Rinse mouth.
P302+P352	IF ON SKIN: wash with plenty of water.
P333+P313	IF SKIN irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.
P301+P316	IF SWALLOWED: Get emergency medical help immediately.
P301+P317	IF SWALLOWED: Get medical help.
P319	Get medical help if you feel unwell.

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

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Synonyms	: Coumarin;1,2-Benzopyrone;1-Benzopyran-2-one;2H-Chromen-2-one
Formula	: C9H6O2
Molecular weight	: 146.14
CAS No.	: 91-64-5
EC-NO.	: 202-086-7

Component	Classification	Concentration
<b>Coumarin</b>	no data available	≥99%

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

Show this material safety data sheet to the doctor in attendance.

#### If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

**In case of skin contact**

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

**In case of eye contact**

Rinse with pure water for at least 15 minutes. Consult a doctor.

**If swallowed**

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

## 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

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media**

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

**Unsuitable extinguishing media**

no data available

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides Flammable Steam is heavier than air, so it can spread over the ground. Under rapid heating, it forms an explosive mixture with air May cause the production of hazardous gases or vapors during a fire

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

no data available

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### 6.2 Environmental precautions

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

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### 6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

### 6.4 Reference to other sections

For disposal see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Operators should be specially trained and strictly abide by the operating procedures. Operation and disposal should be carried out in a place with local ventilation or general ventilation facilities. Avoid eye and skin contact and avoid breathing vapor. See Section 8 for personal protective measures. Keep away from fire and heat sources, and smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. If canning is required, the flow rate should be controlled, and there should be a grounding device to prevent the accumulation of static electricity. Avoid contact with incompatible substances such as oxidizing agents (see section 10 for incompatible substances). When handling, it should be lightly loaded and unloaded to prevent damage to packaging and containers. Empty containers may be harmful residues. Wash hands after use and prohibit eating or drinking in the workplace. Equipped with the corresponding variety and quantity of fire fighting equipment and leakage emer

### 7.2 Conditions for safe storage, including any incompatibilities

Sensitive to humidity, stored at 2-8 °C

### 7.3 Specific end use(s)

no data available

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## 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 EN166(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

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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.

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

a) Appearance	form: Powder or Crystals color: White
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	68-73°C
f) Initial boiling point and boiling range	297 ~ 299°C
g) Flash point	162°C
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	0.935
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

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**SECTION 10: Stability and reactivity**

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## 10.1 Reactivity

no data available

## 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

Possible violent reactions may occur with it: Strong oxidizing agent Strong acid Strong alkali

## 10.4 Conditions to avoid

Strong heating

## 10.5 Incompatible materials

no data available

## 10.6 Hazardous decomposition products

no data available

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - Male and Female -293 mg/kg

remarks: (ECHA)

Inhalation: No data available

LD50 transdermal rat -293 mg/kg

remarks: (ECHA)

#### Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation -4 hours Regulation (EC) No. 440/2008, Attachment B.4)

#### Serious eye damage/eye irritation

Eyes - Rabbit Result: No eye irritation -4 days (US-EPA)

#### 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  
methods: OECD Test Guideline 471 Result: Negative Test Type: Mutational (Mammalian Cell Test): Chromosomal  
Variation Negative Testing system: Metabolic activation of Chinese hamster ovary cells: with or without metabolic  
activation method: OECD Test Guideline 473 Result: Positive Test Type: In vitro mammalian cell gene mutation assay  
Test System: Chinese hamster ovary cell metabolic activation: with or without metabolic activation Method: OECD  
Test Guideline 476 Result: Negative Test Type: In vivo Micronucleus Test Species: Mouse Cell Type: Bone Marrow  
Infection Route: Oral Method: OECD Test Guideline 474 Result: Negative

#### Carcinogenicity

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This product is not or does not contain IARC, ACGIH, EPA, Components classified as carcinogens by NTP

**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**

Repeated toxicity - mice - male and female - oral -13 weeks - level of no observed harmful effects ->138.3 mg/kg

remarks: (ECHA)

Registration of Toxic Effects of Chemical Substances: GN4200000

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

System impact:

Eating in

Possible Symptoms:

Reduced breathing

Drowsiness

Anesthesia

Toxicity to:

Liver

Kidney

Substances that exist in nature

Other hazards cannot be ruled out.

Operate in accordance with good industrial hygiene and safety regulations.

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## SECTION 12: Ecological information

### 12.1 Toxicity

### 12.2 Persistence and degradability

Aerobic - exposure time 28 days Result: Approximately 90% - rapidly biodegradable. (OECD Testing Guideline 301F)

### 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment

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no data available

## 12.6 Other adverse effects

no data available

## 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: 2811

Packing group: III

Class: 6.1

Proper shipping name: Organic toxic

Reportable Quantity(RQ): no data

Poison Inhalation Hazard: no data available

solid, unspecified (alpha benzopyranone)available

Environmental Hazards: no

### IMDG

UN number: 2811

Packing group: III

EMS-No: no data available

Proper shipping name: Organic toxic solid, unspecified (alpha benzopyranone)

### IATA

UN number: 2811

Packing group: III

Class: 6.1

Proper shipping name: Organic toxic solid, unspecified (alpha benzopyranone)

## 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

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SDS sections updated v1

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