

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

SAFETY DATA SHEET

Version: v1
Revision Date: 2024-06-13
Print Date: 2024-06-13

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

1.1 Product identifiers

Product name : Cantharidin
Product Number : C111020
Brand : aladdin
CAS-No. : 56-25-7

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)

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H300 Fatal if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash hands [and ...] thoroughly after handling.

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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.
P302+P352	IF ON SKIN: wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
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

3.1 Substances

Synonyms	: 3a,7a-Dimethylhexahydro-4,7-epoxyisobenzofuran-1,3-dione; 7a-Dimethylhexahydro-3a,4,7-epoxyisobenzofuran; Cantharidine; Hexahydro-3a,7a-dimethyl-4,7-epoxyisobenzofuran-1,3-dione; 2,3-Dimethyl-7-oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid anhydride
Formula	: C ₁₀ H ₁₂ O ₄
Molecular weight	: 196.2
CAS No.	: 56-25-7
EC-NO.	: 200-263-3

Component	Classification	Concentration
Cantharidin	no data available	analytical standard, ≥98%

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	no data available
If inhaled	no data available
In case of skin contact	no data available
In case of eye contact	no data available

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no data available

If swallowed

no data available

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

no data available

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

no data available

5.3 Advice for firefighters

no data available

5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not generate dust during collection and disposal. Sweep and shovel away. Place in a suitable closed container for processing.

6.2 Environmental precautions

no data available

6.3 Methods and materials for containment and cleaning up

Avoid contact with skin and eyes. Avoid the formation of dust and aerosols. Provide suitable exhaust equipment in areas where dust is generated.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

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7.1 Precautions for safe handling

no data available

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep the container sealed and store in a dry and ventilated place. Sensitive to light ,

7.3 Specific end use(s)

Properly avoid contact with skin, eyes, and clothing. Wash hands immediately before rest and after using this product.

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

no data available

Skin protection

Gloves must be checked before use. Please use proper methods to remove the gloves (do not touch the outer surface of the gloves), and avoid any skin parts contacting the product. After use, please handle the contaminated gloves carefully according to relevant laws and regulations and effective laboratory rules and procedures. Please clean and blow dry the protective gloves selected for your hands must meet the specifications given in regulation (EU) 2016 / 425 and the en 374 standard derived from it.

Body Protection

no data available

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) 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

no data available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- | | |
|--------------------|-------------------|
| a) Appearance | no data available |
| b) Odour | no data available |
| c) Odour Threshold | no data available |

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d) pH	no data available
e) Melting point/freezing point	215 - 217 °C (419 - 423 °F) - lit.
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

no data available

10.4 Conditions to avoid

Inhalation may be harmful. Causing respiratory irritation.

10.5 Incompatible materials

Swallowing can be fatal.

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

Phone: +1 (833) 552-7181 Email: QualityAssurance@aladdinsci.com Website: <https://www.aladdinsci.com/>

11.1 Information on toxicological effects

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

May be harmful if absorbed through the skin. Causing skin irritation.

Germ cell mutagenicity

This product is or contains components listed by IARC, ACGIH, EPA, and NTP as potentially non carcinogens, Group 3: not classified as carcinogenic to humans ((1R, 2S, 3R, 6S) -1,2-Dimethyl-3,6-epoxycyclohexene-1,2-dicarboxylicanhydride)

Carcinogenicity

no data available

Reproductive toxicity

Registration of toxic effects of chemical substances:RN8575000

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

no data available

SECTION 12: Ecological information

12.1 Toxicity

no data available

12.2 Persistence and degradability

no data available

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

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12.6 Other adverse effects

no data available

SECTION 13:

13.1 Disposal considerations

Product

no data available

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN number: 2811

Packing group: II

Class: 6.1

Proper shipping name: TOXIC SOLID,
ORGANIC, N.O.S. ((1R,2S,3R,6S)-1,2-

Reportable Quantity(RQ): no data
available

Poison Inhalation Hazard: no

Dimethyl-3,6-epoxycyclohexane-1,2-
dicarboxylic anhydride)

Environmental Hazards: no

IMDG

UN number: 2811

Packing group: II

EMS-No: no

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. ((1R,2S,3R,6S)-1,2-Dimethyl-3,6-epoxycyclohexane-1,2-
dicarboxylic anhydride)

IATA

UN number: 2811

Packing group: II

Class: 6.1

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. ((1R,2S,3R,6S)-1,2-Dimethyl-3,6-epoxycyclohexane-1,2-
dicarboxylic anhydride)

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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