SAFETY DATA SHEET

Version: v1 Revision Date: 2024-06-25 Print Date: 2024-06-26

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

1.1 Product identifiers

| Product name | : Cinobufagin |
|----------------|---------------|
| Product Number | : C331127 |
| Brand | : aladdin |
| CAS-No. | : 470-37-1 |

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

| Identified uses | : | Laborator | y chemicals,Manufacture of substances |
|-----------------|---|-----------|---------------------------------------|
| | | Laborator | |

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) CFR 1910.1200:Acute Toxicity - Oral [Category 2] Acute Toxicity - Dermal [Category 2] Acute Toxicity - Inhalation [Category 1]

2.2 GHS Label elements, including precautionary statements

| Pictogram | |
|----------------------------|--|
| Signal word | Danger |
| Hazard statement(s) | |
| H300+H310+H330 | Fatal if swallowed, in contact with skin or if inhaled |
| Precautionary statement(s) | |
| P260 | Do not breathe dust/fume/gas/mist/vapors/spray. |
| P262 | Do not get in eyes, on skin, or on clothing. |

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| 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. |
| P285 | In case of inadequate ventilation wear respiratory protection. |
| 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

| 0: | | | |
|---|----------------------------|---|--------------|
| Component | Classification | Со | ncentration |
| EC-NO. | | : no data available | |
| CAS No. | | : 470-37-1 | |
| Molecular we | ght | : 442.54 | |
| Formula | | : C26H34O6 | |
| dimethyl-1-(2- | oxo-2H-pyran-5-yl)hexadec | cahydronaphtho[1',2':6,7]indeno[1,7a-b]oxiren-2-yl acetate | |
| 5β,20(22)-bufadienolide 16-Acetate;Cinobufagine;;(1R,2R,2aR,3aS,3bR,5aR,7S,9aS,9bS,11aR)-7-hydroxy-9a,1 | | | |
| acetate, 14,15 | iβ-Epoxy-3β,16β-dihydroxy- | <i>ι</i> -5β,20(22)-bufadienolide 16-acetate;14,15β-Epoxy-3β,16β-di | ihydroxy- |
| Ероху-Зβ,16β | -dihydroxy-5β,20(22)-bufad | dienolide 16-acetate, 5β,20(22)-Bufadienolide-3β,16β-diol-14,1 | 5β-ероху 16- |
| Synonyms | | : 5β,20(22)-Bufadienolide-3β,16β-diol-14,15β-epoxy 16-aceta | ate, 14,15β- |
| | | | |

Cinobufagin

no data available

98%

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice no data available

If inhaled

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

In case of skin contact

Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.

In case of eye contact

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. If swallowed Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

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 Dry chemical, foam, water spray, carbon dioxide. Unsuitable extinguishing media no data available

5.2 Special hazards arising from the substance or mixture

no data available

5.3 Advice for firefighters

Wear self-contained breathing apparatus if possible.

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 extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

6.2 Environmental precautions

Prevent product from entering drains.

6.3 Methods and materials for containment and cleaning up

Clean up the dust and collect it in a closed container, taking care not to disperse it. Adhered or aggregated materials shall be disposed of in a timely manner in accordance with local laws and regulations.

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

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing. Conditions for safe storage, including any incompatibilities

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a refrigerator.Store locked up.Store away from incompatible materials such as oxidizing agents.Heat-sensitive

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

Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

Eye/face protection

Safety goggles. A face-shield, if the situation requires.

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

Impervious gloves.Impervious protective clothing. Protective boots, if the situation requires. Respiratory protection

Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations. Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| a) Appearance | form: Crystal - Powder Solid color: White - Slightly pale yellow |
|---------------|--|
| b) Odour | no data available |

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| c) Odour Threshold | no data available |
|---|---------------------|
| d) pH | no data available |
| e) Melting point/freezing point | 215°C (419°F) |
| 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/wate | r 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

no data available

10.5 Incompatible materials

Oxidizing agents

10.6 Hazardous decomposition products

Carbon dioxide, Carbon monoxide

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity ivn-mus LD50:1210 ug/kg

Skin corrosion/irritation no data available Serious eye damage/eye irritation no data available Respiratory or skin sensitisation no data available Germ cell mutagenicity no data available 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 Number:EI2955000

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

12.6 Other adverse effects

no data available

SECTION 13:

13.1 Disposal considerations

Product

Disposal of product: Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.Other considerations: Observe all federal, state and local regulations when disposing of the substance. Contaminated packaging

Disposal of container: Dispose of as unused product. Do not re-use empty containers.

SECTION 14: Transport information

| DOT (US) | | | | |
|---|---|---|--|--|
| UN number: UN2811 | Packing group: I | Class: 6.1 | | |
| Proper shipping name: Toxic solids, organic, n.o.s | Reportable Quantity(RQ): no data available | Poison Inhalation Hazard: no data available | | |
| Environmental Hazards: no data availa | able | | | |
| IMDG | | | | |
| UN number: UN2811 | Packing group: I | EMS-No: EmS number: F-A, S-A | | |
| Proper shipping name: Toxic solids, organic, n.o.s | | | | |
| ΙΑΤΑ | | | | |
| UN number: UN2811 | Packing group: I | Class: 6.1 | | |
| Proper shipping name: Toxic solids, organic, n.o.s | | | | |

SECTION 15: Regulatory information

Toxic Substance Control Act

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list: (i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec. (ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet. US Federal Regulations

US Federal Regulations

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SARA 313: Not Listed

SARA 302: Not Listed

State Regulations

Massachusetts Not Listed

New Jersey Not Listed

Pennsylvania Not Listed

Other Information

NFPA Rating: HMIS Classification: Health: 0 Health: 0 Flammability: 0 Flammability: 0 Instability: 0 Physical: 0

SECTION 16: Other information

| Prepared By | Regulatory Affairs ALADDIN SCIENTIFIC CORPORATION Email: QualityAssurance@aladdinsci.com |
|------------------|--|
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| Revision Summary | SDS sections updated v1 |

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