

Revision: 10/26/2018

| 23321<br>Aloin B<br>10RbetaD-glucopyranosyl-1,8-dihydroxy-3-(hydroxymethyl)-9(10H)-anthra<br>10-epi-Aloin A; Isobarbaloin;<br>d uses of the substance or mixture and uses advised against:<br>ied uses: For research use only, not for human or veterinary use.<br>oplier of the Safety Data Sheet:<br>E: Cayman Chemical Company<br>1180 E. Ellsworth Rd.<br>Ann Arbor, MI 48108<br>ss: www.caymanchem.com<br>Cayman Chemical Company +1 (734)971-3335<br>hone number:<br>Match: CHEMTREC Within USA and Canada: +1 (800)424-9300<br>CHEMTREC Outside USA and Canada: +1 (703)527-3887<br>Section 2. Hazards Identification<br>the Substance or Mixture:   | cenone;            |  |  |  |  |  |  |
|---|--------------------|--|--|--|--|--|--|
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| Section 2. Hazards Identification   |                    |  |  |  |  |  |  |
|   | 3)527-3887         |  |  |  |  |  |  |
| he Substance or Mixture:  |                    |  |  |  |  |  |  |
|   |                    |  |  |  |  |  |  |
|   |                    |  |  |  |  |  |  |
| rd: None  |                    |  |  |  |  |  |  |
| GHS Signal Word: None GHS Hazard Phrases:   |                    |  |  |  |  |  |  |
| Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.   |                    |  |  |  |  |  |  |
| GHS Precaution Phrases:   |                    |  |  |  |  |  |  |
| No phrases apply.   |                    |  |  |  |  |  |  |
|   |                    |  |  |  |  |  |  |
| GHS Response Phrases:<br>No phrases apply.  |                    |  |  |  |  |  |  |
| -   |                    |  |  |  |  |  |  |
| nd Disposal Phrases:  |                    |  |  |  |  |  |  |
| Please refer to Section 7 for Storage and Section 13 for Disposal information.  |                    |  |  |  |  |  |  |
| Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.  |                    |  |  |  |  |  |  |
| ptoms: May be harmful by inhalation, ingestion, or skin absorption.   |                    |  |  |  |  |  |  |
| May cause eye, skin, or respiratory system irritation.<br>To the best of our knowledge, the toxicological properties have not been thoroughly investiga   |                    |  |  |  |  |  |  |
|   |                    |  |  |  |  |  |  |
| Section 3. Composition/Information on Ingredients   |                    |  |  |  |  |  |  |
| us Components (Chemical Name)/ Concentration EC No./ GHS Classific EC Index No.   | ication            |  |  |  |  |  |  |
|   | No data available. |  |  |  |  |  |  |
| D-glucopyranosyl-1,8-dihydroxy-3-(hydroxy NA  |                    |  |  |  |  |  |  |
| ·   |                    |  |  |  |  |  |  |
|   |                    |  |  |  |  |  |  |
|   |                    |  |  |  |  |  |  |
|   |                    |  |  |  |  |  |  |



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|   |  | Section 4. First Aid Measures   |  |  |  |  |
|---|--|---|--|--|--|--|
| 4.1   | Description of First Aid   |   |  |  |  |  |
|   | Measures:  |   |  |  |  |  |
|   | In Case of Inhalation:   | Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.  |  |  |  |  |
|   | In Case of Skin Contact:   | Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.                             |  |  |  |  |
|   | In Case of Eye Contact:  | Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.   |  |  |  |  |
|   | In Case of Ingestion:  | Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel. |  |  |  |  |
|   |  | Section 5. Fire Fighting Measures   |  |  |  |  |
| 5.1   | Suitable Extinguishing   | Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.   |  |  |  |  |
|   | Media:   | Use water spray to cool fire-exposed containers.  |  |  |  |  |
|   | Unsuitable Extinguishing<br>Media:   | <b>g</b> A solid water stream may be inefficient.   |  |  |  |  |
| 5.2   | Flammable Properties an<br>Hazards:  | I <b>d</b> No data available.   |  |  |  |  |
|   |  | No data available.  |  |  |  |  |
|   | Flash Pt:  | No data.  |  |  |  |  |
|   | Explosive Limits:  | LEL: No data. UEL: No data.   |  |  |  |  |
|   | Autoignition Pt:   | No data.  |  |  |  |  |
| 5.3   | Fire Fighting Instructions   | <b>s:</b> As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.                           |  |  |  |  |
|   |  | Section 6. Accidental Release Measures  |  |  |  |  |
| 6.1   | Protective Precautions,  | Avoid breathing vapors and provide adequate ventilation.  |  |  |  |  |
|   | Protective Equipment an  | d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,   |  |  |  |  |
|   | Emergency Procedures:  | and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).  |  |  |  |  |
| 6.2   | Environmental  | Take steps to avoid release into the environment, if safe to do so.   |  |  |  |  |
|   | Precautions:   |   |  |  |  |  |
| 6.3   | Methods and Material For Contain spill and collect, as appropriate.  |   |  |  |  |  |
|   | Containment and CleaningTransfer to a chemical waste container for disposal in accordance with local regulations.<br>Up: |   |  |  |  |  |
|   | ор.  |   |  |  |  |  |
|   |  | Section 7. Handling and Storage   |  |  |  |  |
| 7.1 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray. |  |   |  |  |  |  |
|   | in Handling:   | Avoid prolonged or repeated exposure.   |  |  |  |  |
| 7.2   | Precautions To Be Taker  | Neep container tightly closed.  |  |  |  |  |
|   | in Storing:  | Store in accordance with information listed on the product insert.  |  |  |  |  |
|   | Sec  | tion 8. Exposure Controls/Personal Protection   |  |  |  |  |
| 8.1   | Exposure Parameters:   |   |  |  |  |  |
|   |  |   |  |  |  |  |

Multi-region format



| 8.2.1 Engli<br>(Vent<br>8.2.2 Pers<br>Eye F<br>Prote<br>Othe<br>Resp<br>(Spec<br>Work<br>ce Pr<br>9.1 Inform<br>Phys<br>Appe<br>pH:<br>Melti<br>Boilin<br>Flash<br>Evap | tilation etc.): levels<br>onal protection equipment<br>Protection: Safet<br>ective Gloves: Comp<br>or Protective Clothing:Lab of<br>biratory Equipment NIOS<br>cify Type):<br>ractices: Facili<br>Wash<br>No da<br>Section<br>mation on Basic Physical a<br>sical States:<br>earance and Odor:<br>ing Point:<br>ng Point:   | ty glasses<br>patible chemical-resistant gloves<br>coat<br>SH approved respirator, as conditions warrant.<br>ot take internally.<br>ities storing or utilizing this material should be equipped with an eyewash and a safety show<br>h thoroughly after handling.<br>ata available.<br>on 9. Physical and Chemical Properties  |
|---|---|--|
| 8.2.1 Engli<br>(Vent<br>8.2.2 Pers<br>Eye F<br>Prote<br>Othe<br>Resp<br>(Spec<br>Work<br>ce Pr<br>9.1 Inform<br>Phys<br>Appe<br>pH:<br>Melti<br>Boilin<br>Flash<br>Evap | neering Controls Use p<br>tilation etc.): levels<br>onal protection equipment<br>Protection: Safet<br>ective Gloves: Comp<br>or Protective Clothing: Lab of<br>biratory Equipment NIOS<br>cify Type):<br>x/Hygienic/Maintenan Do no<br>ractices: Facili<br>Wash<br>No da<br>Section<br>mation on Basic Physical a<br>sical States:<br>earance and Odor:<br>ng Point:<br>ng Point:   | s below recommended exposure limits.  t: ty glasses patible chemical-resistant gloves coat SH approved respirator, as conditions warrant. ot take internally. ities storing or utilizing this material should be equipped with an eyewash and a safety show h thoroughly after handling. ata available. on 9. Physical and Chemical Properties and Chemical Properties []Gas []Liquid [X]Solid A crystalline solid No data. No data. |
| (Vent<br>8.2.2 Pers<br>Eye F<br>Prote<br>Othe<br>Resp<br>(Spec<br>Work<br>ce Pr<br>9.1 Inform<br>Phys<br>Appe<br>pH:<br>Melti<br>Boilin<br>Flash<br>Evap                | tilation etc.): levels<br>onal protection equipment<br>Protection: Safet<br>ective Gloves: Comp<br>or Protective Clothing:Lab of<br>biratory Equipment NIOS<br>cify Type):<br>ractices: Facili<br>Wash<br>No da<br>Section<br>mation on Basic Physical a<br>sical States:<br>earance and Odor:<br>ing Point:<br>ng Point:   | s below recommended exposure limits.  t: ty glasses patible chemical-resistant gloves coat SH approved respirator, as conditions warrant. ot take internally. ities storing or utilizing this material should be equipped with an eyewash and a safety show h thoroughly after handling. ata available. on 9. Physical and Chemical Properties and Chemical Properties []Gas []Liquid [X]Solid A crystalline solid No data. No data. |
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| pH:<br>Melti<br>Boilin<br>Flash<br>Evap   | ng Point:<br>ng Point:  | No data.<br>No data.   |
| Melti<br>Boilin<br>Flash<br>Evap  | ng Point:   |  |
| Boilin<br>Flash<br>Evap   | ng Point:   | No data.   |
| Flash<br>Evap   | -   |  |
|   | h Pt:   | No data.   |
|   | ooration Rate:  | No data.   |
|   | mability (solid, gas):  | No data available.   |
| Explo   | osive Limits:   | LEL: No data. UEL: No data.  |
| Vapo  | or Pressure (vs. Air or mm  | No data.   |
| Hg):  |   |  |
|   | or Density (vs. Air = 1):   | No data.   |
| Spec  | ific Gravity (Water = 1):   | No data.   |
| -   | bility in Water:  | No data.   |
| Solul   | bility Notes:   | ~0.5 mg/ml in PBS (pH 7.2); ~0.25 mg/ml in EtOH; ~30 mg/ml in DMSO DMF;  |
| Octa  | nol/Water Partition   | No data.   |
| Coef  | ficient:  |  |
| Auto  | ignition Pt:  | No data.   |
|   | omposition Temperature:   | No data.   |
| Visco   | osity:  | No data.   |
| 9.2 Other   | Information   |  |
| Perce   | ent Volatile:   | No data.   |
| Mole  | cular Formula & Weight:   | C21H22O9 418.4   |

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|        |                              |   | Section 2   | 10. Stability and           | Reactiv       | ity            |        |      |  |
|--------|------------------------------|---|---|-----------------------------|---------------|----------------|--------|------|--|
| 10.1   |                              |   |   |                             |               |                |        |      |  |
| 10.2   | Stability                    | :   | Unstable [ ] Stable [ X ]   |                             |               |                |        |      |  |
| 10.3   | Stability                    | Note(s):                                      | Stable if stored in accordance with information listed on the product insert. |                             |               |                |        |      |  |
|        |                              |   |   | Will not occur [ X ]        |               |                |        |      |  |
| 10.4   | Conditio                     | ons To Avoid:                                 | No data available.  |                             |               |                |        |      |  |
| 10.5   | Incompa                      | tibility - Materials                          | strong acids  |                             |               |                |        |      |  |
|        | To Avoid: strong bases       |   |   |                             |               |                |        |      |  |
|        |                              |   | strong oxidizing agents   |                             |               |                |        |      |  |
|        |                              |   | strong reducing a   | gents                       |               |                |        |      |  |
| 10.6   | Hazardo                      |   | carbon dioxide  |                             |               |                |        |      |  |
|        | -                            | osition or                                    | carbon monoxide   |                             |               |                |        |      |  |
|        | Byprodu                      | icts:   |   |                             |               |                |        |      |  |
|        |                              |   | Section 1   | 1. Toxicological            | Informat      | tion           |        |      |  |
| 11.1   | Informat                     | ion on  | The toxicological   | effects of this product hav | ve not been t | thoroughly stu | udied. |      |  |
|        | Toxicolo                     | gical Effects:                                |   |                             |               |                |        |      |  |
| Carcir | nogenicity                   | /:  | NTP? No IAF   | RC Monographs? No           | OSHA Reg      | julated? No    |        |      |  |
| CAS    | #                            | Hazardous Com                                 | ponents (Chemica  | al Name)                    | NTP           | IARC           | ACGIH  | OSHA |  |
| 2837   | 71-16-6                      | 9(10H)-Anthracer                              | ione,   |                             | n.a.          | n.a.           | n.a.   | n.a. |  |
|        |                              | -   | pyranosyl-1,8-dihy  |                             |               |                |        |      |  |
|        |                              | -, (R)-                                       |   |                             |               |                |        |      |  |
|        |                              |   | Section   | 12. Ecological In           | formatio      | on             |        |      |  |
| 12.1   | Toxicity                     | Toxicity: Avoid release into the environment. |   |                             |               |                |        |      |  |
|        |                              |   | Runoff from fire co   | ontrol or dilution water ma | ay cause pol  | lution.        |        |      |  |
| 12.2   | Persiste                     | nce and                                       | No data available.  |                             |               |                |        |      |  |
|        | Degrada                      | bility:                                       |   |                             |               |                |        |      |  |
| 12.3   | Bioaccu                      | mulative                                      | No data available.  |                             |               |                |        |      |  |
|        | Potentia                     | l:  |   |                             |               |                |        |      |  |
| 12.4   | Mobility                     | in Soil:                                      | No data available.  |                             |               |                |        |      |  |
|        | 12.5 Results of PBT and vPvB |   | No data available   |                             |               |                |        |      |  |
|        |                              |   |   |                             |               |                |        |      |  |
|        | assessn                      | nent:   |   |                             |               |                |        |      |  |
|        |                              | nent:<br>Iverse effects:                      | No data available   |                             |               |                |        |      |  |
| 12.5   |                              |   |   | 3. Disposal Con             | sideratio     | ons            |        |      |  |

# Cayman

## SAFETY DATA SHEET Aloin B

Multi-region format

Revision: 10/26/2018

| CHIMICAI                                      |  | Section 14. Tran  | sport Inform  | ation            |              |  |  |
|---|--|---|---|------------------|--------------|--|--|
| 14.1 LAND 1                                   | RANSPORT (US   |   |   |                  |              |  |  |
|   | er Shipping Name<br>rd Class:                          |   |   |                  |              |  |  |
| 14.1 LAND 1                                   | RANSPORT (Euro   | opean ADR/RID):   |   |                  |              |  |  |
|   | hipping Name:<br>er:                                   | Not dangerous goods.  |   |                  |              |  |  |
| 14.3 AIR TR                                   | ANSPORT (ICAO/   | IATA):  |   |                  |              |  |  |
| ICAO/IATA                                     | Shipping Name:   | Not dangerous goods.  |   |                  |              |  |  |
| Additional Tra<br>Information:                | nsport   | Transport in accordance with lo   | cal, state, and fede  | ral regulations. |              |  |  |
|   |  | Section 15. Regul   | latory Inform   | ation            |              |  |  |
| -   |  | nents and Reauthorization Act   | -   |                  |              |  |  |
| CAS #   |  | ponents (Chemical Name)   | S. 302 (EHS)  | S. 304 RQ        | S. 313 (TRI) |  |  |
| 28371-16-6                                    | 9(10H)-Anthracen<br>10betaD-glucc<br>oxymethyl)-, (R)- | pyranosyl-1,8-dihydroxy-3-(hydr   | No  | No               | No           |  |  |
| CAS #   | Hazardous Com  | ponents (Chemical Name)   | Other US EPA o  | r State Lists    |              |  |  |
| 28371-16-6                                    | 9(10H)-Anthracer<br>10betaD-glucc<br>oxymethyl)-, (R)- | opyranosyl-1,8-dihydroxy-3-(hydr  | CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA<br>PROP.65: No |                  |              |  |  |
| Regulatory Info<br>Statement:                 | ormation   | This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.   |   |                  |              |  |  |
|   |  | Section 16. Oth   | ner Informatio  | on               |              |  |  |
| Revision Date:                                |  | 10/26/2018  |   |                  |              |  |  |
| Additional Information About<br>This Product: |  | No data available.  |   |                  |              |  |  |
| Company Policy or Disclaimer:                 |  | DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. |   |                  |              |  |  |
|   |  |   |   |                  |              |  |  |