

Revision: 05/13/2018

| 1.1 Product Code: 24913 Product Name: Isosilybin Synonyms: (2R,3R)-2(2.3-dihydro-2-(4-hydroxy-3-methoxyphenyl)-3-(hydroxymethyl)-1.4-b 2.3-dihydro-3.5,7-trihydroxy-4H-1-benzopyran-4-one; Isosilibinin; Isosilybin B; 1.2 Relevant identified uses of the substance or mixture and uses advised against: Relevant identified uses: For research use only, not for human or veterinary use. 1.3 Details of the Supplier of the Safety Data Sheet: Company Name: Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 Web site address: www.caymanchem.com Information: Information: Cayman Chemical Company (130 E. Ellsworth Rd. Ann Arbor, MI 48108 Web site address: www.caymanchem.com Information: Emergency telephone number: Emergency Contact: CHEMTREC Outside USA and Canada: +1 (800)424-9300 CHEMTREC Outside USA and Canada: C1 Classification of the Substance or Mixture: Acute Toxicity: Oral, Category 4 2.2 Label Elements: Section 2. Hazards Identification CHS Signal Word: Warning GHS Hazard Phrases: P264: Wash (hands) thoroughly after handling. GHS Response Phrases: P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell | S | ection 1. Ider | ntification of the Substance/Mixture and of t | the Company/Undertaking | | | |
|--|--------------------|--|---|----------------------------------|--|--|--|
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| | | To the best of our knowledge, the toxicological properties have not been thoroughly investigat | | | | | |
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Revision: 05/13/2018

| | | Sect | ion 3. Composition | /Information | on Ingredie | nts | | |
|-------------------------------|----------|--|---|-------------------------|-------------------------|---|--|--|
| CAS RTEC | | Hazardous Comp REACH Registrat | oonents (Chemical Name)/ ion No. | Concentration | EC No./ EC Index No. | GHS Classification | | |
| 72581-71-6 Isosilibinin NA | | Isosilibinin | | 100.0 % | 683-238-3 NA | Acute Tox.(O) 4: H302 | | |
| | | | Section 4. Fi | rst Aid Measu | ures | | | |
| 4.1 | Descrip | otion of First Aid | | | | | | |
| | Measur | es: | | | | | | |
| | In Case | of Inhalation: | Remove to fresh air. If not bre | eathing, give artificia | I respiration or giv | ve oxygen by trained personnel. | | |
| | | | Get immediate medical attent | ion. | | | | |
| | In Case | of Skin Contact: | - | | | 5 minutes. Remove contaminated | | |
| | | | clothing. Get medical attentio | | - | | | |
| | In Case | of Eye Contact: | | | ater for at least 1 | 5 minutes. Have eyes examined | | |
| | | | and tested by medical person | | | . ar i ar | | |
| | In Case | of Ingestion: | Wash out mouth with water p | - | - | | | |
| | | | medical personnel. | uical attention. Do N | | ng unless directed to do so by | | |
| | | | - | | | | | |
| | | | Section 5. Fire | | | | | |
| 5.1 | | e Extinguishing | Use alcohol-resistant foam, o | | r, or dry chemical | spray. | | |
| | Media: | | Use water spray to cool fire-e | - | | | | |
| | | able Extinguishing | A solid water stream may be | inefficient. | | | | |
| | Media: | | INTERNAL STATE | | | | | |
| 5.2 | Flamma | - | d No data available. | | | | | |
| | 1122010 | | No data available. | | | | | |
| | Flash P | 't: | No data. | | | | | |
| | | ive Limits: | LEL: No data. | UEL: No da | ata. | | | |
| | - | nition Pt: | No data. | | | | | |
| 5.3 | - | | | ained breathing app: | aratus pressure-d | emand (NIOSH approved or | | |
| 0.0 | | | 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. Acciden | | | - | | |
| 6 1 | Drotoct | ive Pressutions | | | | | | |
| 6.1 | | ive Precautions, | Avoid raising and breathing A As conditions warrant wear | - | - | n. eathing apparatus, or respirator, | | |
| | | ency Procedures: | and appropriate personal pro | | | | | |
| 6.2 | - | mental | Take steps to avoid release | - | | | | |
| 0.2 | Precaut | | | | | | | |
| 6.3 | | | Contain spill and collect. as | appropriate. | | | | |
| | | Is and Material For Contain spill and collect, as appropriate. | | | | | | |
| | Up: | | - | r - | | | | |
| | | | Section 7. Har | dling and Qt | orane | | | |
| | Drocovi | tions To Do Tokan | | | | | | |
| 7.1 | | | Avoid breathing dust/fume/ga Avoid prolonged or repeated | | y. | | | |
| 7.2 | in Hand | - | | - | | | | |
| 7.2 | in Stori | | Keep container tightly closed Store in accordance with info | | nroduct insert | | | |
| | | ······ | | | | Multi-region format | | |
| | | | | | | multi-region format | | |



Revision: 05/13/2018

| | | on 8. Exposure Controls/Personal Protection | | | |
|-------|-----------------------------|--|--|--|--|
| 3.1 | Exposure Parameters: | | | | |
| 8.2 | Exposure Controls: | | | | |
| 8.2.1 | Engineering Controls | Use process enclosures, local exhaust ventilation, or other engineering controls to control airborn | | | |
| | (Ventilation etc.): | levels below recommended exposure limits. | | | |
| 3.2.2 | Personal protection equip | | | | |
| | Eye Protection: | Safety glasses | | | |
| | Protective Gloves: | Compatible chemical-resistant gloves | | | |
| | Other Protective Clothing: | Lab coat | | | |
| | Respiratory Equipment | NIOSH approved respirator, as conditions warrant. | | | |
| | (Specify Type): | | | | |
| | Work/Hygienic/Maintenan | Do not take internally. | | | |
| | | Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe | | | |
| | | Wash thoroughly after handling. | | | |
| | | No data available. | | | |
| | Se | ection 9. Physical and Chemical Properties | | | |
| 9.1 | Information on Basic Physi | cal and Chemical Properties | | | |
| | Physical States: | []Gas []Liquid [X]Solid | | | |
| | Appearance and Odor: | A crystalline solid | | | |
| | pH: | No data. | | | |
| | Melting Point: | No data. | | | |
| | Boiling Point: | No data. | | | |
| | Flash Pt: | No data. | | | |
| | Evaporation Rate: | No data. | | | |
| | Flammability (solid, gas): | No data available. | | | |
| | Explosive Limits: | LEL: No data. UEL: No data. | | | |
| | Vapor Pressure (vs. Air or | mm No data. | | | |
| | Hg): | | | | |
| | Vapor Density (vs. Air = 1) | | | | |
| | Specific Gravity (Water = 1 | | | | |
| | Solubility in Water: | No data. | | | |
| | Solubility Notes: | ~0.5 mg/ml in a 1:9 solution of DMF:PBS (pH 7.2); ~0.1 mg/ml in EtOH; ~10 mg/ml in DMSO; ~20 mg/ml in DMF; | | | |
| | Octanol/Water Partition | No data. | | | |
| | Coefficient: | | | | |
| | Autoignition Pt: | No data. | | | |
| | Decomposition Temperatu | re: No data. | | | |
| | Viscosity: | No data. | | | |
| .2 | Other Information | | | | |
| | Percent Volatile: | No data. | | | |
| | Molecular Formula & Weig | ht: C25H22O10 482.4 | | | |
| | | | | | |

Multi-region format



Multi-region format

Revision: 05/13/2018

| | | | Section 10. Stability a | | | | | |
|--|---|--|---|---|------------------|---------|------|--|
| 10.1 | Reactivit | iy: | No data available. | | | | | |
| 10.2 | Stability | : | Unstable [] Stable [X] | | | | | |
| 10.3 | Stability | Note(s): | Stable if stored in accordance with in | ormation listed | on the product | insert. | | |
| Polymerization: | | ization: | Will occur [] Will not occur [X] | | | | | |
| 10.4 | Conditio | ns To Avoid: | No data available. | | | | | |
| 10.5 | Incompa To Avoic | | strong oxidizing agents | | | | | |
| 10.6 | 0.6 Hazardous | | carbon dioxide | | | | | |
| | Decomp | osition or | carbon monoxide | | | | | |
| | Byprodu | cts: | | | | | | |
| | | | Section 11. Toxicologi | cal Informa | ation | | | |
| 11.1 | Informat Toxicolo | ion on gical Effects: | The toxicological effects of this produ | ct have not beer | n thoroughly st | udied. | | |
| CAS # | # | Hazardous Com | | | IARC | ACGIH | OSHA | |
| | | ι ιαζαι μυμδ 60/// | ponents (Chemical Name) | NTP | | | | |
| 7258 | 31-71-6 | Isosilibinin | ponents (Chemical Name) | n.a. | n.a. | n.a. | n.a. | |
| 7258 | 31-71-6 | | | n.a. | n.a. | | | |
| | | Isosilibinin | Section 12. Ecologic | n.a. | n.a. | | | |
| 7258 1 2.1 | 31-71-6 Toxicity: | Isosilibinin | Section 12. Ecologic Avoid release into the environment. | n.a. al Informat | n.a. | | | |
| 12.1 | Toxicity: | Isosilibinin | Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa | n.a. al Informat | n.a. | | | |
| | Toxicity: Persiste | Isosilibinin | Section 12. Ecologic Avoid release into the environment. | n.a. al Informat | n.a. | | | |
| 12.1 12.2 | Toxicity: Persister Degrada | Isosilibinin nce and bility: | Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. | n.a. al Informat | n.a. | | | |
| 12.1 | Toxicity: Persister Degrada Bioaccur | Isosilibinin nce and bility: mulative | Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa | n.a. al Informat | n.a. | | | |
| 12.1 12.2 12.3 | Toxicity: Persister Degrada Bioaccur Potentia | Isosilibinin nce and bility: mulative I: | Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. | n.a. al Informat | n.a. | | | |
| 12.1 12.2 12.3 12.4 | Toxicity: Persister Degrada Bioaccur Potentia Mobility | Isosilibinin nce and bility: mulative I: in Soil: | Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. | n.a. al Informat | n.a. | | | |
| 12.1 12.2 12.3 | Toxicity: Persister Degrada Bioaccur Potentia Mobility | Isosilibinin nce and bility: mulative I: in Soil: of PBT and vPvB | Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. | n.a. al Informat | n.a. | | | |
| 12.1 12.2 12.3 12.4 | Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm | Isosilibinin nce and bility: mulative I: in Soil: of PBT and vPvB | Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. | n.a. al Informat | n.a. | | | |
| 12.1 12.2 12.3 12.4 12.5 | Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm | Isosilibinin nce and bility: mulative I: in Soil: of PBT and vPvB nent: | Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. | n.a. al Informat er may cause p | ion ollution. | | | |
| 12.1 12.2 12.3 12.4 12.5 | Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad | Isosilibinin nce and bility: mulative I: in Soil: of PBT and vPvB nent: | Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. | n.a. al Informat er may cause p Considerat | ion ollution. | | | |
| 12.1 12.2 12.3 12.4 12.5 12.6 | Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad | Isosilibinin nce and bility: mulative I: in Soil: of PBT and vPvB nent: Iverse effects: | Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. Section 13. Disposal (| n.a. al Informat er may cause p Considerat e, and federal r | ion ollution. | | | |
| 12.1 12.2 12.3 12.4 12.5 12.6 | Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad | Isosilibinin nce and bility: mulative I: in Soil: of PBT and vPvB nent: Iverse effects: | Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, state Section 14. Transport | n.a. al Informat er may cause p Considerat e, and federal r | ion ollution. | | | |
| 12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 | Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad | Isosilibinin nce and bility: mulative l: in Soil: of PBT and vPvB nent: verse effects: isposal Method: | Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transpo | n.a. al Informat er may cause p Considerat e, and federal r | ion ollution. | | | |
| 12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D | Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad | Isosilibinin Isosilibinin Ince and bility: mulative I: in Soil: of PBT and vPvB tent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: | Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transpo | n.a. al Informat er may cause p Considerat e, and federal r | ion ollution. | | | |
| 12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D(| Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad Waste D | Isosilibinin Isosilibinin Ince and bility: mulative I: in Soil: of PBT and vPvB ient: iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: | Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transpo | n.a. al Informat er may cause p Considerat e, and federal r | ion ollution. | | | |
| 12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D(| Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad Waste D LAND T OT Proper OT Hazard | Isosilibinin Isosilibinin Ince and bility: mulative I: in Soil: of PBT and vPvB ient: iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: | Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transpo | n.a. al Informat er may cause p Considerat e, and federal r | ion ollution. | | | |
| 12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D(UI 14.1 AI | Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad Waste D LAND T OT Proper OT Hazard N/NA Num LAND T DR/RID SI | Isosilibinin Isosilibinin Isosilibinin Ince and bility: mulative I: in Soil: of PBT and vPvB ment: Iverse effects: Isposal Method: RANSPORT (US I r Shipping Name: Der: RANSPORT (Euro hipping Name: | Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transpo | n.a. al Informat er may cause p Considerat e, and federal r | ion ollution. | | | |
| 12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D(UI 14.1 AI UI | Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad Waste D LAND T OT Proper OT Hazaro N/NA Num LAND T | Isosilibinin Isosilibinin Isosilibinin Ince and bility: mulative I: in Soil: of PBT and vPvB ment: verse effects: Isposal Method: RANSPORT (US I r Shipping Name: Cass: Ther: RANSPORT (Euron Thipping Name: The Statement of the s | Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transpo DOT): Not dangerous goods. | n.a. al Informat er may cause p Considerat e, and federal r | ion ollution. | | | |

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| Curinui | |

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

Transport in accordance with local, state, and federal regulations.

Information:

Additional Transport

Section 15. Regulatory Information

| CAS # | Hazardous Components (Chemical Name) | | S. 302 (EHS) | S. 304 RQ | S. 313 (TRI) | |
|--------------------------------------|--------------------------------------|--|---------------------------------|--------------------|----------------|--|
| 72581-71-6 | Isosilibinin | | No | No | No | |
| CAS # | Hazardous Components (Chemical Name) | | Other US EPA or S | State Lists | • | |
| 72581-71-6 | Isosilibinin | | CAA HAP,ODC: N PROP.65: No | o; CWA NPDES: No | ; TSCA: No; CA | |
| Regulatory Information Statement: | | This SDS was prepared in accor No.1272/2008. | rdance with 29 CFR [·] | 1910.1200 and Regu | ation (EC) | |
| | | Section 16. Oth | er Information | า | | |
| Revision Date: | | 05/13/2018 | | | | |
| Additional Info | rmation About | No data available. | | | | |
| This Product: | | | | | | |
| 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. | | | | |