

Revision: 11/29/2017 Supersedes Revision: 06/05/2014

| - | CHEMICAL | | Supersedes Revision: 06/05/2014 | | | |
|-----|---|--|--|--|--|--|
| | accord | ling to Regulation (EC) No. 1907/2006 as amended by (| (EC) No. 1272/2008 | | | |
| | Section 1. Ide | entification of the Substance/Mixture and of th | ne Company/Undertaking | | | |
| .1 | Product Code: | 11636 | | | | |
| | Product Name: | Amphotericin B | | | | |
| | Synonyms: | (1R,3S,5R,6R,9R,11R,15S,16R,17R,18S,19E,21E,23E,25E,27E,29E,31E,33R,35S,36R,37S) | | | | |
| | | 3-[(3-amino-3,6-dideoxybetaD-mannopyrand | osyl)oxy]-1,3,5,6,9,11,17,37-octahydroxy-15,16 | | | |
| | -trimethyl-13-oxo-14,39-dioxabicyclo[33.3.1]nonatriaconta-19,21,23,25,27,29,31-heptael | | | | | |
| | rboxylic acid; Abelcet®; AmBisome®; Ampho-Moronal®; Amphocin®; Amphozone®; | | | | | |
| | Fungizone®; Halizon®; LNS-AmB; NSC 527017; | | | | | |
| .2 | Relevant identified uses of the | he substance or mixture and uses advised aga | ainst: | | | |
| | Relevant identified uses: | For research use only, not for human or vetering | nary use. | | | |
| .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: | Cayman Chemical Company | +1 (734)971-3335 | | | |
| .4 | Emergency telephone numb | er: | | | | |
| | Emergency Contact: | CHEMTREC Within USA and Canada: | +1 (800)424-9300 | | | |
| | | CHEMTREC Outside USA and Canada: | +1 (703)527-3887 | | | |
| | | Section 2. Hazards Identifica | ation | | | |
| 2.2 | Label Elements: | | | | | |
| | GHS Signal Word: | Warning | | | | |
| | GHS Hazard Phrases: | | | | | |
| | H315: Causes skin irritation. | | | | | |
| | H319: Causes serious eye irritation. | | | | | |
| | H335: May cause respiratory irritation. | | | | | |
| | GHS Precaution Phrases: | | | | | |
| | P261: Avoid breathing {dust/fume/gas/mist/vapors/spray}. | | | | | |
| | P264: Wash {hands} thoroughly after handling. | | | | | |
| | P280: Wear {protective gloves/protective clothing/eye protection/face protection}. | | | | | |
| | GHS Response Phrases: | | | | | |
| | P302+352: IF ON SKIN: Wash with plenty of soap and water. | | | | | |
| | P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. | | | | | |
| | P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy | | | | | |
| | to do. Continue rinsing. | | | | | |
| | - | ER or doctor/physician if you feel unwell. | | | | |
| | P332+313: If skin irritation o | ccurs, get medical advice/attention. | | | | |
| | P337+313: If eye irritation pe | ersists, get medical advice/attention. | | | | |
| | | | <u></u> | | | |
| | | | Multi-rogion form | | | |



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| | P362- | +364: Take off conta | aminated clothing and wash it | before reuse. | | |
|---------------------|---------|----------------------|-----------------------------------|-----------------------|-----------------------|---------------------------------|
| | GHS | Storage and Dispo | osal Phrases: | | | |
| | Pleas | e refer to Section 7 | for Storage and Section 13 fo | r Disposal informat | ion. | |
| 2.3 | Advers | e Human Health | Causes serious eye irritation |). | | |
| | Effects | and Symptoms: | Causes skin irritation. | | | |
| | | | Material may be irritating to t | | | spiratory tract. |
| | | | May be harmful by inhalation | - | absorption. | |
| | | | May cause respiratory syste | | | |
| | | | To the best of our knowledge | e, the toxicological | properties have no | t been thoroughly investigated. |
| | | Sec | tion 3. Composition | n/Information | on Ingredie | ents |
| CAS | #/ | Hazardous Com | ponents (Chemical Name)/ | Concentration | EC No./ | GHS Classification |
| RTECS # REACH Regis | | REACH Registra | tion No. | | EC Index No. | |
| 139 | 7-89-3 | Amphotericin B | | 100.0 % | 215-742-2 | Skin Corr. 2: H315 |
| BU26 | 25000 | | | | NA | Eye Damage 2: H319 |
| | | | | | | STOT (SE) 3: H335 |
| | | | Section 4. Fi | rst Aid Meas | sures | |
| 4.1 | Descri | ption of First Aid | | | | |
| | Measu | res: | | | | |
| | In Case | e of Inhalation: | Remove to fresh air. If not br | eathing, give artific | ial respiration or gi | ve oxygen by trained personnel. |
| | | | Get immediate medical atten | ition. | | |
| | In Case | e of Skin Contact: | Immediately wash skin with s | soap and plenty of | water for at least 1 | 5 minutes. Remove contaminated |
| | | | clothing. Get medical attention | on if symptoms occ | ur. Wash clothing b | pefore reuse. |
| | In Case | e of Eye Contact: | Hold eyelids apart and flush | eyes with plenty of | water for at least 1 | 5 minutes. Have eyes examined |
| | | | and tested by medical person | nnel. | | |
| | In Case | e of Ingestion: | Wash out mouth with water p | provided person is a | conscious. Never g | ive anything by mouth to an |
| | | | unconscious person. Get me | dical attention. Do | NOT induce vomiti | ing unless directed to do so by |
| | | | medical personnel. | | | |
| | | | Section 5. Fire | Fighting Me | easures | |
| 5.1 | Suitabl | le Extinguishing | Use alcohol-resistant foam, | carbon dioxide, wa | ter, or dry chemica | l spray. |
| | Media: | | Use water spray to cool fire- | exposed containers | S. | |
| | Unsuita | able Extinguishing | g A solid water stream may be | e inefficient. | | |
| | Media: | | | | | |
| 5.2 | Flamm | able Properties an | ndNo data available. | | | |
| | Hazard | ls: | | | | |
| | | | No data available. | | | |
| | Flash F | Pt: | No data. | | | |
| | | ive Limits: | LEL: No data. | UEL: No | data | |
| | - | nition Pt: | No data. | 022. 110 | | |
| 5.3 | - | | s: As in any fire, wear self-cont | ained breathing an | paratus prossuro d | domand (NIOSH approved or |
| 5.5 | гне гі | gnung instructions | equivalent), and full protective | | | |
| | | | | o gear to prevent t | Sontaot with SKIII dl | iu 0360. |
| | | | | | | |
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Multi-region format



SAFETY DATA SHEET Amphotericin B

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| | S | Section 6. Accidental Release Measures | | | | |
|------------|---|--|--|--|--|--|
| 6.1 6.2 | Protective Equipment and Emergency Procedures: Environmental Precautions: | id raising and breathing dust, and provide adequate ventilation. conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). e steps to avoid release into the environment, if safe to do so. | | | | |
| 6.3 | | ods and Material For Contain spill and collect, as appropriate. ainment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations. | | | | |
| | | Section 7. Handling and Storage | | | | |
| 7.1 7.2 | in Handling: A Precautions To Be Taken | n Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure. n Keep container tightly closed. Store in accordance with information listed on the product insert. | | | | |
| | Section | on 8. Exposure Controls/Personal Protection | | | | |
| 8.1 | Exposure Parameters: | | | | | |
| 8.2 | Exposure Controls: | | | | | |
| 8.2.1 | Engineering Controls | Jse process enclosures, local exhaust ventilation, or other engineering controls to control airborne evels below recommended exposure limits. | | | | |
| 8.2.2 | Personal protection equipment | nent: | | | | |
| | - | Safety glasses Compatible chemical-resistant gloves | | | | |
| | Other Protective Clothing:L | | | | | |
| | - | VIOSH approved respirator, as conditions warrant. | | | | |
| | (Specify Type): | | | | | |
| | Work/Hygienic/Maintenan | Do not take internally. | | | | |
| | V | Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower Wash thoroughly after handling. No data available. | | | | |
| | Se | ction 9. Physical and Chemical Properties | | | | |
| | | · · · · | | | | |
| 9.1 | Information on Basic Physic Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or n Hg): Vapor Density (vs. Air = 1): | []Gas []Liquid [X]Solid A crystalline solid No data. No data. No data. No data. No data. No data. No data. LEL: No data. UEL: No data. | | | | |
| | | Multi-region forma | | | | |

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| | | | | | Cape | | 00,00,2011 | | | |
|------------------------|-----------------------------|------------------|---|---|---------------|----------|--------------------|--|--|--|
| | Specific | Gravity (Water = | 1): No data. | | | | | | | |
| | Solubility | in Water: | No data. | | | | | | | |
| | Solubility | Notes: | ~0.5 mg/ml in a 1:1 solution of DMS | O:PBS (pH 7 | .2); ~2 mg/ml | in DMSO; | | | | |
| | Octanol/\ | Nater Partition | No data. | | | | | | | |
| | Coefficie | nt: | | | | | | | | |
| | Autoignit | ion Pt: | No data. | | | | | | | |
| | - | sition Temperat | ure: No data. | | | | | | | |
| | Viscosity | - | No data. | | | | | | | |
| 9.2 | Other Info | | | | | | | | | |
| 0.2 | Percent \ | | No data. | | | | | | | |
| | | r Formula & Weig | | | | | | | | |
| | | | | | | | | | | |
| | | | Section 10. Stability and | Reactivit | У | | | | | |
| 10.1 | Reactivit | y: | No data available. | | | | | | | |
| 10.2 | Stability: | | Unstable [] Stable [X] | Instable [] Stable [X] | | | | | | |
| 10.3 | Stability | Note(s): | Stable if stored in accordance with informat | Stable if stored in accordance with information listed on the product insert. | | | | | | |
| | Polymeri | zation: | Will occur [] Will not occur [X] | | | | | | | |
| 10.4 | Conditio | ns To Avoid: | No data available. | | | | | | | |
| 10.5 | | | s strong oxidizing agents | | | | | | | |
| | To Avoid | - | | | | | | | | |
| 10.6 | Hazardou | | carbon dioxide | | | | | | | |
| 10.0 | | _ | carbon dioxide carbon monoxide | | | | | | | |
| | Decompo | | nitrogen oxides | | | | | | | |
| | Byproducts: nitrogen oxides | | | | | | | | | |
| | | | Section 11. Toxicological I | nformatio | on | | | | | |
| 11.1 | Informati | on on | The toxicological effects of this product have | e not been the | oroughly stud | ied. | | | | |
| Toxicological Effects: | | gical Effects: | Amphotericin B - Toxicity Data: Oral LD50 (rat): >5 g/kg; Intraperitoneal LD50 (rat): >5 g/kg; Oral | | | | | | | |
| | Chronic Toxicological | | LD50 (mouse): 280 mg/kg; Intraperitoneal LD50 (mouse): 27740 µg/kg; | | | | | | | |
| | | | Amphotericin B - Investigated as a drug, mutagennatural product, primary irritant, and reproductive | | | | | | | |
| | Effects: | | effector. | | | | | | | |
| | | | Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. | | | | | | | |
| | | | See actual entry in RTECS for complete information. | | | | | | | |
| | | | Amphotericin B RTECS Number: BU2625000 | | | | | | | |
| CAS | # Hazardous Component | | ponents (Chemical Name) | NTP | IARC | ACGIH | OSHA | | | |
| 139 | | Amphotericin B | | n.a. | n.a. | n.a. | n.a. | | | |
| | | | | | | | | | | |
| | | | Section 12. Ecological In | formation | ן | | | | | |
| 12.1 Toxicity: | | | Avoid release into the environment. | | | | | | | |
| | | | Runoff from fire control or dilution water may cause pollution. | | | | | | | |
| 12.2 | 2.2 Persistence and | | No data available. | | | | | | | |
| Degradability: | | | | | | | | | | |
| 12.3 | Bioaccur | nulative | No data available. | | | | | | | |
| | Potential: | | | | | | | | | |
| 12.4 | | | No data available. | | | | | | | |
| 12.5 | • | | | | | | | | | |
| assessment: | | | | | | | | | | |
| 12.0 | | | | | | | | | | |
| 12.6 | Uther adv | verse effects: | No data available. | | | | | | | |
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| 3.1 Waste D | | Oration 40 Diana | | | | | |
|-------------------------------|----------------------------------|--|---|-----------------------------|----------------|--|--|
| 3.1 Waste D | | Section 13. Dispos | sal Considera | itions | | | |
| | isposal Method: | Dispose in accordance with loc | al, state, and federal | regulations. | | | |
| | | Section 14. Trar | sport Informa | ation | | | |
| 14.1 LAND T | RANSPORT (US | DOT): | | | | | |
| DOT Prope | er Shipping Name | : Not dangerous goods. | | | | | |
| DOT Hazar | d Class: | | | | | | |
| UN/NA Nur | nber: | | | | | | |
| 14.1 LAND T | RANSPORT (Eur | opean ADR/RID): | | | | | |
| | hipping Name: | Not dangerous goods. | | | | | |
| UN Numbe | | | | | | | |
| Hazard Cla | | | | | | | |
| | ANSPORT (ICAO/ Shipping Name: | IATA): Not dangerous goods. | | | | | |
| Additional Tra | | Transport in accordance with le | acal state and feder | al regulations | | | |
| Information: | Isport | | | a regulations. | | | |
| | | Section 15 Page | latory Informa | ntion | | | |
| | | Section 15. Regu | • | | | | |
| | - | nents and Reauthorization Act | - | | | | |
| CAS # 1397-89-3 | Amphotericin B | ponents (Chemical Name) | S. 302 (EHS) | S. 304 RQ | S. 313 (TRI) | | |
| | · | | - | - | | | |
| CAS # | | lazardous Components (Chemical Name) | | Other US EPA or State Lists | | | |
| 1397-89-3 | Amphotericin B | | CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No | | | | |
| Regulatory Info Statement: | ormation | This SDS was prepared in acc No.1272/2008. | ordance with 29 CFR | 1910.1200 and R | egulation (EC) | | |
| | | Section 16. Ot | her Informatio | n | | | |
| Revision Date: | | 11/29/2017 | | | | | |
| 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 warrant 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. | | | | | |