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according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830 and US OSHA HCS 2015

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Code: 13227

Product Name: Fumonisin B2

Synonyms: 1,1'-[(1S,2R)-1-[(2S,9R,11S,12S)-12-amino-9,11-dihydroxy-2-methyltridecyl]-2-[(1R)-1-methylpe

ntyl]-1,2-ethanediyl]ester-1,2,3-propanetricarboxylic acid; FB2;

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: Cayman Chemical Company +1 (734)971-3335

1.4 Emergency telephone number:

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300

CHEMTREC Outside USA and Canada: +1 (703)527-3887

Section 2. Hazards Identification

2.1 Classification of the Substance or Mixture:

Acute Toxicity: Inhalation, Category 1

Acute Toxicity: Oral, Category 2
Acute Toxicity: Skin, Category 2
Skin Corrosion/Irritation, Category 2

Serious Eye Damage/Eye Irritation, Category 2

Carcinogenicity, Category 2

Specific Target Organ Toxicity (single exposure), Category 3

2.2 Label Elements:







GHS Signal Word: Danger

GHS Hazard Phrases:

H300: Fatal if swallowed.

H310: Fatal in contact with skin.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H330: Fatal if inhaled.

H335: May cause respiratory irritation.

H351: Suspected of causing cancer.



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GHS Precaution Phrases:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P260: Do not breathe {dust/fume/gas/mist/vapors/spray}.

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash {hands} thoroughly after handling.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

P284: Wear respiratory protection {}.

GHS Response Phrases:

P301+310: IF SWALLOWED: P310: Immediately call a POISON CENTER or doctor/physician.

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.

P308+313: IF exposed or concerned: Get medical attention/advice.

P320: Specific treatment is urgent {see ... on this label}.

P330: Rinse mouth.

P332+313: If skin irritation occurs, get medical advice/attention.

P337+313: If eye irritation persists, get medical advice/attention.

P361+364: Take off immediately all contaminated clothing and wash it before reuse.

P362+364: Take off contaminated clothing and wash it before reuse.

GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health Causes serious eye irritation.

Effects and Symptoms: Causes skin irritation.

Fatal if inhaled, swallowed, or contact with skin.

Suspected of causing cancer.

Material may be irritating to the mucous membranes and upper respiratory tract.

May cause respiratory system irritation.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Section 3. Composition/Information on Ingredients

CAS#/ RTECS#	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
116355-84-1	Fumonisin B2	100.0 %	601-424-4	Acute Tox.(O) 2: H300
TZ8335000			NA	Acute Tox.(D) 2: H310
				Skin Corr. 2: H315
				Eye Damage 2: H319
				Acute Tox.(I) 1: H330
				STOT (SE) 3: H335
				Carcinogen 2: H351



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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 A solid water stream may be inefficient.

Media:

5.2 Flammable Properties and No data available.

Hazards:

No data available.

Flash Pt: No data.

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

5.3 Fire Fighting Instructions: 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 raising and breathing dust, and provide adequate ventilation.

Protective Equipment and 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 Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.

Up:

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 Taken Keep container tightly closed.

in Storing: Store in accordance with information listed on the product insert.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:



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8.2 Exposure Controls:

8.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

(Ventilation etc.): levels below recommended exposure limits.

8.2.2 Personal protection equipment:

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.

ce Practices: Facilities storing or utilizing this material should be equipped with an eye wash facility and a safety

shower.

Wash thoroughly after handling.

No data available.

Section 9. Physical and Chemical Properties

9.1	1 Information on Basic Physical 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):	No data.			
	Specific Gravity (Water = 1):	No data.			
	Solubility in Water:	No data.			
	Solubility Notes:	~15 mg/ml in PBS (pH 7.2); ~10 mg/ml in MeOH & acetonitrile;			
	Octanol/Water Partition	No data.			
	Coefficient:				
	Autoignition Pt:	No data.			
	Decomposition Temperature:	No data.			
	Viscosity:	No data.			
9.2	Other Information				
	Percent Volatile:	No data.			

C34H59NO14

Molecular Formula & Weight:

705.8



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Section 10. Stability and Reactivity

10.1 Reactivity: No data available.

10.2 Stability: Unstable [] Stable [X]

10.3 Stable if stored in accordance with information listed on the product insert. Stability Note(s):

Polymerization: Will occur [] Will not occur [X]

10.4 **Conditions To Avoid:** No data available.

10.5 Incompatibility - Materials strong oxidizing agents.

To Avoid:

10.6 Hazardous carbon dioxide

> carbon monoxide **Decomposition or** nitrogen oxides **Byproducts:**

Section 11. Toxicological Information

11.1 Information on The toxicological effects of this product have not been thoroughly studied.

Toxicological Effects:

IARC: Group 2B: Possibly carcinogenic to humans (Fumonisin B2) Carcinogenicity/Other

Information:

Carcinogenicity: NTP? No IARC Monographs? Yes OSHA Regulated? No

CAS#	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
116355-84-1	Fumonisin B2	n.a.	n.a.	n.a.	n.a.

Section 12. Ecological Information

12.1 Toxicity: Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

12.2 Persistence and No data available.

Degradability:

No data available. 12.3 **Bioaccumulative**

Potential:

No data available. 12.4 **Mobility in Soil:**

12.5 Results of PBT and vPvB No data available.

assessment:

Other adverse effects: 12.6 No data available.

Section 13. Disposal Considerations

Waste Disposal Method: Dispose in accordance with local, state and federal regulations. 13.1

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Toxic solid, organic, n.o.s. (Fumonisin B2)

DOT Hazard Class: 6.1 POISON

UN2811 **UN/NA Number: Packing Group:**





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14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Toxic solid, organic, n.o.s. (Fumonisin B2)

UN Number: 2811 Packing Group: I

Hazard Class: 6.1 - POISON

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Toxic solid, organic, n.o.s. (Fumonisin B2)

UN Number:2811Packing Group:IHazard Class:6.1 - POISONIATA Classification:6.1

Additional Transport Transport in accordance with local, state, and federal regulations. When sold in quantities of less

Information: than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets

the De Minimis Quantities exemption, per IATA 2.6.10.

Section 15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
116355-84-1	Fumonisin B2	No	No	No
CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists		
116355-84-1	Fumonisin B2	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		

Regulatory Information This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)

Statement: No.1272/2008.

Section 16. Other Information

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Additional Information 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.