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Safety Data Sheet acc. to OSHA HCS

Printing date 10/31/2020

1 Identification

Revision date 10/31/2020

Product identifier • Trade name: Aflatoxin B1-13C17 Svnonvm (6aR,9aS)-4-(methoxy-13C)-2,3,6a,9a-tetrahydrocyclopenta[c]furo[3',2':4,5]furo[2,3-h]chromene-1,11dione-1,2,3,3a,3b,4,5,5a,6a,8,9,9a,9b,9c,11,11a-13C16; AFB1-13C17; · Article number: 31260 • Application of the substance / the mixture For research use only, not for human or veterinary use. · Details of the supplier of the safety data sheet · Manufacturer/Supplier: Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA · Information department: Product safety department · Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CĂNADA: 800-424-9300 Outside US/CANADA: 703-741-5970 2 Hazard(s) identification · Classification of the substance or mixture GHS02 Flame Flam. Liq. 2 H225 Highly flammable liquid and vapor. GHS07 Acute Tox. 4 H312 Harmful in contact with skin. Acute Tox, 4 H332 Harmful if inhaled. Eye Irrit. 2A H319 Causes serious eye irritation. · Label elements · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms GHS02 GHS07 · Signal word Danger (Contd. on page 2)

US

Printing date 10/31/2020

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Trade name: Aflatoxin B1-13C17

Hazard-determining components of labeling: Acctonitrile Hazard statements Highly flammable liquid and vapor. Harmful in contact with skin or if inhaled. Causes serious eye irritation. Precautionary statements Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tighty closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If eye irritation persists: Get medical advice/attention. In case of fire: Use for extinction: CO2, powder or water spray. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFA ratings (scale 0 - 4) Multis-ratings (scale 0 - 4) Multis-rati		ge 1
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PBT: Not applicable.		
vPvB: Not applicable.		

· Chemical characterization: Mixtures

· **Description:** Mixture of the substances listed below with nonhazardous additions.

(Contd. on page 3)

Printing date 10/31/2020

Revision date 10/31/2020

Trade name: Aflatoxin B1-13C17

(Contd. from page 2)

≥99.9999%

CAS: 75-05-8 Acetonitrile RTECS: AL7700000

· Dangerous components:

4 First-aid measures

· Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately rinse with water.
- After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed

May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. No further relevant information available.

• **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. **Special hazards arising from the substance or mixture**

Can release vapors that form explosive mixtures at temperatures at or above the flashpoint. Container explosion may occur under fire conditions.

Emits toxic fumes under fire conditions.

Sensitive to static discharge.

Vapors can travel to a source of ignition and flash back.

- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:
- Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

(Contd. on page 4)

US -

Printing date 10/31/2020

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 Ensure adequate ventilation. Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. Protective Action Criteria for Chemicals 	(Contd. from page 3)
PAC-1:	
75-05-8 Acetonitrile	13 ppm
· PAC-2:	
75-05-8 Acetonitrile	50 ppm
· PAC-3:	
75-05-8 Acetonitrile	150 ppm

7 Handling and storage

· Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities** Keep away from heat, sparks and flame. Keep container tightly closed. Store in accordance with information listed on the product insert.
- Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

- · Control parameters
- · Components with limit values that require monitoring at the workplace:

75-05-8 Acetonitrile

- PEL Long-term value: 70 mg/m³, 40 ppm
- REL Long-term value: 34 mg/m³, 20 ppm
- TLV Long-term value: 34 mg/m³, 20 ppm
 - Skin

• Additional information: The lists that were valid during the creation were used as basis.

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- Exposure controls
- Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.
- · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

 Information on basic physical and chemical properties · General Information · Appearance: Form: Liquid Color: According to product specification · Odor: Characteristic [13C]17H12O6 · Structural Formula · Molecular Weight 329.1 · Odor threshold: Not determined. · Formulation A solution in acetonitrile · pH-value: Not determined. · Change in condition Melting point/Melting range: -46 °C (-50.8 °F) (Contd. on page 6) US

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	(Contd. from page s
Boiling point/Boiling range:	81 °C (177.8 °F)
· Flash point:	5 °C (41 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	525 °C (977 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air vapor mixtures are possible.
· Explosion limits:	
Lower:	4.4 Vol %
Upper:	16 Vol %
· Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)
· Density at 20 °C (68 °F):	0.7822 g/cm³ (6.52746 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
 Evaporation rate 	Not determined.
· Solubility in / Miscibility with	
Water:	Fully miscible.
· Partition coefficient (n-octanol/wat	er): Not determined.
· Viscosity:	
Dynamic at 20 °C (68 °F):	0.39 mPas
Kinematic:	Not determined.
· Solvent content:	
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Solids content:	0.1 %
· Other information	No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

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(Contd. from page 6)

Information on Acute toxicity:	toxicologi		
	that are r	relevant for classification:	
ATE (Acute Tox	icity Estin	nate)	
Oral	LD50	≤2,460 mg/kg (rat)	
Dermal	LD50	≤980 mg/kg (rabbit)	
Inhalative	LC50/4 h	≤11 mg/l	
75-05-8 Acetoni	trile		
Oral	TDLO	64 ml/kg (man)	
	LD50	2,460 mg/kg (rat)	
Dermal	LD50	980 mg/kg (rabbit)	
Inhalative	LC50/4 h	7,551 mg/m³ (rat)	
	LC50	7,551 mg/m³/8h (rat)	
	TCLO	160 mg/m³/4h (hmn)	
Irritation of eyes		$100 \ \mu l/24 \ hr \ (rabbit)$	
	Irritation	100 il/24 hr (rabbit)	
Primary irritant	effect:	1	
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Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number		
· DOT, IMDG, IATA	UN1648	
· UN proper shipping name		
· DOT, IATA	Acetonitrile solution	
·IMDG	ACETONITRILE solution	
 Transport hazard class(es) 		
· DOT		
H-AMMABLE LOUD		
•		
· Class	3 Flammable liquids	
· Label	3	
· IMDG, IATA		
3		
· Class	3 Flammable liquids	
· Label	3	
· Packing group		
· DOT, IMDG, IATA	II	
Environmental hazards:	Not applicable.	
	••	
 Special precautions for user Hazard identification number (Kem) 	Warning: Flammable liquids	
• EMS Number:	F-E,S-D	
• Stowage Category	B	

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Safety Data Sheet acc. to OSHA HCS

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	(Contd. from page a
Stowage Code	SW2 Clear of living quarters.
 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.
· Transport/Additional information:	
· DOT · Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
[·] IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IATA · Remarks:	When sold in quantities of less 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 Minimi Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled a Dangerous Goods/Excepted Quantity.
UN "Model Regulation":	UN 1648 ACETONITRILE SOLUTION, 3, II

15 Regulatory information

 $^{\cdot}$ Safety, health and environmental regulations/legislation specific for the substance or mixture $^{\cdot}$ Sara

· Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
75-05-8 Acetonitrile	
TSCA (Toxic Substances Control Act):	
75-05-8 Acetonitrile	ACTIVE
· Hazardous Air Pollutants	
75-05-8 Acetonitrile	
Proposition 65	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
• Chemicals known to cause reproductive toxicity for females:	
Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.	
· · ·	
None of the ingredients is listed.	
None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males:	

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CBD, D

A4

· Carcinogenic categories

· EPA (Environmental Protection Agency)

75-05-8 Acetonitrile

• TLV (Threshold Limit Value established by ACGIH)

75-05-8 Acetonitrile

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Environment protection department.

· Contact: -

Date of preparation / last revision 10/31/2020 / -

· Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, ÉU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit** Flam. Liq. 2: Flammable liquids - Category 2 Acute Tox. 4: Acute toxicity - Category 4 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A ** Data compared to the previous version altered.

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