

Safety data sheet

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according to 1907/2006/EC, Article 31

Printing date 25.02.2022 Revision: 25.02.2022 Version number 5.02 (replaces version 5.01)

SECTION 1: Identification of the substance/mix undertaking	ture and of the company/
· 1.1 Product identifier	
· Trade name: <u>alpha-Amanitine</u>	
 Article number: A1485 CAS Number: 23109-05-9 EC number: 245-432-2 Application of the substance / the mixture Biochemistry Laboratory chemicals 	
 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: AppliChem GmbH Ottoweg 4 D-64291 Darmstadt 	Tel.: +49 (0)6151 93570 Fax.: +49 (0)6151 935711 msds@applichem.com
• Further information obtainable from: Dept. Compliance • 1.4 Emergency telephone number: +49(0)6151 93570 (Inside no	
SECTION 2: Hazards identification	
 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Acute Tox. 2 H300 Fatal if swallowed. Acute Tox. 1 H310 Fatal in contact with skin. Acute Tox. 1 H330 Fatal if inhaled. 	

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008
- The substance is classified and labelled according to the CLP regulation.
- · Hazard pictograms



Signal word Danger
 Hazard statements

H300+H310+H330 Fatal if swallowed, in contact with skin or if inhaled.

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- H373 May cause damage to organs through prolonged or repeated exposure.
- Precautionary statements
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
- P330 Rinse mouth.
- P320 Specific treatment is urgent (see on this label).
- P361+P364 Take off immediately all contaminated clothing and wash it before reuse.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- 2.3 Other hazards

$^{\cdot}$ Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- · **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- 3.1 Substances
- CAS No. Description
- 23109-05-9 alpha-Amanitine
- · Identification number(s)
- EC number: 245-432-2

SECTION 4: First aid measures

· 4.1 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.

Remove breathing equipment only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Involve doctor immediately.

Personal protection for the First Aider.

· After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

· After skin contact:

Call a doctor immediately.

Immediately wash with water and soap and rinse thoroughly.

- Immediately remove any clothing soiled by the product.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Do not induce vomiting; call for medical help immediately.
- 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** In case of fire, the following can be released: Nitrogen oxides (NOx)

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Carbon monoxide and carbon dioxide Sulphur oxides (SOx) Forms explosive mixtures with air on intense heating. Non-combustible. • **5.3 Advice for firefighters**

• Protective equipment: Mouth respiratory protective device. Wear self-contained respiratory protective device.

· Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
 Avoid formation of dust.
 Avoid substance contact.
 Ensure adequate ventilation

 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
 6.3 Methods and material for containment and cleaning up:

 Pick up mechanically.

 Avoid formation of dust.

 Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Clean up affected area.

6.4 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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Any unavoidable deposit of dust must be regularly removed.

- · Information about fire and explosion protection:
- Keep respiratory protective device available.

The product is not flammable.

· 7.2 Conditions for safe storage, including any incompatibilities

- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.

· Further information about storage conditions:

- Keep container tightly sealed. Store receptacle in a well ventilated area. Accesible for authorised persons only.
- · Recommended storage temperature: +2 +8°C
- Storage class: 6.1 B
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace: Not required.

· Additional information: The lists valid during the making were used as basis.

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Trade name: alpha-Amanitine

(Contd. of page 3) · 8.2 Exposure controls · Appropriate engineering controls No further data; see item 7. · Individual protection measures, such as 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. Store protective clothing separately. Vacuum clean contaminated clothing. Do not blow or brush off contamination. Avoid contact with the eyes and skin. · Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Recommended filter device for short term use: Filter P3 Hand protection Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. 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. 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. • For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR Recommended thickness of the material: \geq 0.11 mm Value for the permeation: Level \geq 480 min • As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR Recommended thickness of the material: ≥ 0.11 mm Value for the permeation: Level \geq 480 min · Eye/face protection Safety glasses Body protection: Use protective suit. Full head, face and neck protection Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazourdous substances handled. SECTION 9: Physical and chemical properties · 9.1 Information on basic physical and chemical properties · General Information · Physical state Solid · Colour: White · Odour: Recognisable

- · Odour threshold:
- Melting point/freezing point:
- 255 °C · Boiling point or initial boiling point and boiling range Undetermined. · Flammability Product is not flammable.

Not determined.

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Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Decomposition temperature:	Not determined.
рН	Not applicable.
Viscosity:	
Kinematic viscosity	Not applicable.
Dynamic:	Not applicable.
Solubility	
water:	Insoluble.
Partition coefficient n-octanol/water (log va	alue) Not determined.
Vapour pressure:	Not applicable.
Density and/or relative density	
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not applicable.
9.2 Other information	
Appearance:	
Form:	Solid
Important information on protection of he	
and environment, and on safety.	
Auto-ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Evaporation rate	Not applicable.
Information with regard to physical haz	
classes	2010
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	v Ulu
flammable gases in contact with water	Void
Oxidising liquids	Void Void
Oxidising solids	Void
Organic peroxides	Void Void
Corrosive to metals	Void Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

• 10.1 Reactivity No further relevant information available.

- 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided: light.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.

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• 10.6 Hazardous decomposition products: In the event of fire: See chapter 5

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- Acute tox	icity			Regulation (EC) No 1272/2008	
		contact with skin o evant for classification			
				roduct are not available.	
Compone	ents	Туре	Value	Species	
Oral	LD50	5 mg/kg (ATE)			
Dermal	LD50	5 mg/kg (ATE)			
Inhalative	LC50/4 h	0.005 mg/l (ATE)			
After inha Respirato Germ cell Carcinog Reproduc STOT-sin STOT-rep May cause	Ilation: No ory or skin mutagen enicity Ba ctive toxic gle expos beated exp e damage	irritant effect. sensitisation Bas- icity Based on avai sed on available da ity Based on availa ure Based on availa osure to organs through p	ed on availa lable data, th ta, the class ble data, the able data, th prolonged or	data, the classification criteria are not me ble data, the classification criteria are not ne classification criteria are not met. ification criteria are not met. classification criteria are not met. e classification criteria are not met. repeated exposure.	
11.2 Infor Endocrin SECTIO	mation or e disruptio N 12: Ec city	other hazards ng properties Subs cological inform	stance is not	ssification criteria are not met. listed.	
11.2 Infor Endocrin SECTIO 12.1 Toxic Aquatic to 12.2 Pers 12.3 Bioa 12.4 Mobi 12.5 Resu PBT: Not vPvB: Not 12.6 Endo The produ	mation or e disruption N 12: Ec city oxicity: Not istence ar ccumulati ility in soil applicable t applicable t applicable ocrine disp int does not r adverse il ecologic	other hazards ng properties Subs cological inform o further relevant inf id degradability No ve potential No fur No further relevant and vPvB assess e. cupting properties t contain substance	stance is not nation formation avai o further relevan ther relevan t information sment	ailable. vant information available.	

Chemicals must be disposed of in compliance with the respective national regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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Transport/Additional information:	
ADR	
Limited quantities (LQ)	500 g
Excepted quantities (EQ)	Code: E4
	Maximum net quantity per inner packaging: 1 g
	Maximum net quantity per outer packaging: 500 g
Transport category	2
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	500 g
Excepted quantities (EQ)	Code: E4
	Maximum net quantity per inner packaging: 1 g
	Maximum net quantity per outer packaging: 500 g
UN "Model Regulation":	UN 3462 TOXINS, EXTRACTED FROM LIVIN
-	SOURCES, SOLID, N.O.S. (ALPHA-AMANITINE
	6.1, II

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- Seveso category H1 ACUTE TOXIC
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 5 t
- \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 20 t
- National regulations:
- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57 Substance is not listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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: Dept. Compliance

Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Acute Tox. 2: Acute toxicity – Category 2 Acute Tox. 1: Acute toxicity - Category 1 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 ** Data compared to the previous version altered.

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