

Alamethicin (U-22324): sc-200094



The Power to Question

MATERIAL SAFETY DATA SHEET

1 Identification of the substance/mixture and of the company/undertaking

Product Name: Alamethicin (U-22324)
Catalog Number: sc-200094
Synonyms: Ac-2-MeAla-L-Pro-2-MeAla-L-Ala-2-MeAla-L-Ala-L-Gln-2-MeAla-L-Val-2-MeAla-Gly-L-Leu-2-MeAla-L-Pro-L-Val-2-MeAla-2-MeAla-L-Glu-L-Gln-L-phenylalaninol
CAS Number: 27061-78-5 (59588-86-2)
Supplier: Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, CA 95060
800.457.3801 or 831.457.3800
Emergency: ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

2 Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

GHS06 skull and crossbones



H301 Toxic if swallowed; Acute Tox. 3

Classification according to Directive 67/548/EEC or Directive 1999/45/EC:

T Toxic



R25 Toxic if swallowed.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

Label elements

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:

T Toxic



Hazard-determining components of labelling:

Alamethicin
Alamethicin I

Risk phrases:

25 Toxic if swallowed.

Safety phrases:

- | | |
|----|---|
| 20 | When using do not eat or drink. |
| 36 | Wear suitable protective clothing. |
| 45 | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |
| 60 | This material and its container must be disposed of as hazardous waste. |

Other hazards**Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

27061-78-5 Alamethicin

59588-86-2 Alamethicin I

Molecular weight: 1964.4

Molecular formula: C₉₂H₁₅₀N₂₂O₂₅

Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

Description of first aid measures**General information:**

Immediately remove any clothing soiled by the product.

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

After inhalation:

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

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Remove contaminated clothing.

Seek medical attention if symptoms appear.

After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

After ingestion:

Do not induce vomiting; call for medical help immediately.

Information for doctor:

Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

Extinguishing media**Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture

No further relevant information available.

Advice for firefighters**Protective equipment:**

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Avoid formation of dust.

Wear protective clothing.

Environmental precautions: Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

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.

7 Handling and storage

Handling:

Precautions for safe handling: No special precautions are necessary if used correctly.

Information about fire - and explosion protection: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store tightly sealed in a cool, dry and well ventilated location (see label for storage temperature and additional specific information).

Information about storage in one common storage facility:

Keep away from heat, sources of ignition and incompatibles such as oxidizing agents.

Further information about storage conditions:

Store under lock and key and with access restricted to technical experts or their assistants only.

Store at -20 °C.

Specific end use(s): No further relevant information available.

8 Exposure controls/personal protection

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

Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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

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.

Respiratory protection: Not required.

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

Form	Solid	Odor	Characteristic
Odor threshold	Not determined	pH-value	Not applicable
Melting point/range	Undetermined	Boiling point/range	Undetermined
Flash point	Not applicable	Flammability (solid, gaseous)	Not determined
Decomposition temperature	Not determined	Self-igniting	Not self igniting
Danger of explosion	Not a hazard	Lower explosion limit	Not determined
Upper explosion limit	Not determined	Vapor pressure	Not applicable
Density	Not determined	Relative density	Not determined
Vapor density	Not applicable	Evaporation rate	Not applicable
Solubility/Miscibility with water	Not determined	Dynamic viscosity	Not applicable
Kinematic viscosity	Not applicable		
Segregation coefficient (n-octanol/water)	Not determined		

10 Stability and reactivity**Reactivity****Chemical stability:** Stable. Avoid strong oxidizing agents.**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.**11 Toxicological information**

Information on toxicological effects

Acute toxicity:**LD/LC50 values relevant for classification:****59588-86-2 Alamethicin I**

Oral LD50 80 mg/kg (mouse)

LD50 40 mg/kg (mouse) (subcutaneous)

Primary irritant effect:**on the skin:** Not determined**on the eye:** Not determined**Sensitization:** No sensitizing effects known.**Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU

Classification Guidelines for Preparations as issued in the latest version: Toxic**12 Ecological information****Toxicity****Aquatic toxicity:** No further relevant information available.**Persistence and degradability:** No further relevant information available.**Behaviour in environmental systems:****Bioaccumulative potential:** No further relevant information available.**Mobility in soil:** No further relevant information available.

Additional ecological information:**General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely 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 together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14 Transport information

UN-Number

ADR, IMDG, IATA UN3288

UN proper shipping name

ADR 3288 TOXIC SOLID, INORGANIC, N.O.S. (Alamethicin, Alamethicin I)

IMDG, IATA TOXIC SOLID, INORGANIC, N.O.S. (Alamethicin, Alamethicin I)

Transport hazard class(es)**ADR**

Class 6.1 Toxic substances.

Label 6.1

IMDG, IATA

Class 6.1 Toxic substances.

Label 6.1

Packing group

ADR, IMDG, IATA III

Environmental hazards:

Marine pollutant: No

Special precautions for user:

Warning: Toxic substances.

Danger code (Kemler): 60

EMS Number: F-A,S-A

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code: Not applicable.

Transport/Additional information:

ADR

Tunnel restriction code E

UN "Model Regulation": UN3288, TOXIC SOLID, INORGANIC, N.O.S.

(Alamethicin, Alamethicin I), 6.1, III

15 Regulatory information

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

16 Other information

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

8/31/2012