

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 24 May 2023

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product name:

Amikacin

1.1. Catalog No.:

686080

1.2. Relevant identified uses of the substance or mixture Identified: Laboratory chemical uses: R&D

uses:

1.3. Uses advised against:

HPC Standards GmbH Am Wieseneck 7

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1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36 This number is only available during office hours.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
Repr. 2 H361d Suspected of damaging the unborn child.
STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.
Eye Dam. 1 H318 Causes serious eye damage.
Acute Tox. 4 H332 Harmful if inhaled.
Skin Sens. 1 H317 May cause an allergic skin reaction.

2.2. Label elements

2.2.1. Pictogram



2.2.2.

- · 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008



The substance is classified and labelled according to the CLP regulation.

· Signal word Danger

Hazard statements

H332 Harmful if inhaled. H318 Causes serious eye damage. H317 May cause an allergic skin reaction.

H361d Suspected of damaging the unborn child. H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

Precautionary statements
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER/doctor.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

PS01 Dispose of contents contents are regulations.
2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterisation: Substances

CAS No. Description 37517-28-5 Amikacin

Identification number(s) None
 EC number: 253-538-5
 RTECS: WK1955000

3.1.1. Formula

C22H43N5O13

3.1.2. Molecular Weight (g/mol)

585.60

3.1.3. CAS-No.



37517-28-5

4. FIRST AID MEASURES

· 4.1 Description of first aid measures

· General information:

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

· After inhalation:

Supply fresh air and call a doctor.

In case of unconsciousness place patient in recovery position for transport.

Seek medical treatment.

After skin contact: Immediately wash with water and soap and rinse thoroughly.
After skin contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing: Rinse mouth. Do not induce vomiting.
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.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable for surrounding conditions.
 5.2 Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire.
 5.3 Advice for firefighters

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

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Avoid formation of dust.

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

· 6.3 Methods and material for containment and cleaning up:

Use neutralising agent.

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

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.



7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature 2 - 8 °C 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

- 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace: Not required.
 Additional information: Lists used were valid at the time of SDS preparation.
- 8.2 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.

Store protective clothing separately.

Avoid contact with the eyes.

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.

Protection of hands:

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

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374

Material of gloves Butyl rubber, BR

· 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

- · 9.1 Information on basic physical and chemical properties
- General Information
- Appearance:

Form: Solid Colour: White

- · Odour: Odourless
- · Odour threshold: Not determined.
- pH-value: Not applicable.
 Change in condition
- Nelting point/freezing point: Not determined.
- Initial boiling point and boiling range: Not determined.
 Flash point: Not applicable.
 Flammability (solid, gas): Not determined.
 Ignition temperature: Not determined

- · Decomposition temperature: Not determined.
- · Auto-ignition temperature: Not determined.
- · Explosive properties: Not determined.



- Explosion limits:
- Lower: Not determined.
- Upper: Not determined.
- Vapour pressure: Not applicable.
 Density at 20 °C: 1.6 g/cm³
 Relative density Not determined.
 Vapour density Not applicable.

- Evaporation ráte Not applicable. · Solubility in / Miscibility with
- water: Not determined.
- · Partition coefficient: n-octanol/water: Not determined.
- Viscosity:
 Dynamic: Not applicable.
- Kinematic: Not applicable.
- 9.2 Other information No further relevant information available.

10. STABILITY AND REACTIVITY

· 10.1 Reactivity

- Stable under normal conditions.
 No further relevant information available.
 10.2 Chemical stability Stable under normal conditions.
 Thermal decomposition / conditions to be avoided:

- Formation of toxic gases is possible during heating or in case of fire. 10.3 Possibility of hazardous reactions No dangerous reactions known. 10.4 Conditions to avoid Heat.

- 10.5 Incompatible materials: Strong oxidizing agents.
 10.6 Hazardous decomposition products: Formation of toxic gases is possible during heating or in case of fire.

11. TOXICOLOGICAL INFORMATION

- · 11.1 Information on toxicological effects
- · Acute toxicity

- Acute toxicity Harmful if inhaled.
 LD/LC50 values relevant for classification: Oral LD50 >6,000 mg/kg (mouse) LD 50 (Intraperitoneal) 750 mg/kg (mouse)
 Primary irritant effect:
 Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eve damage/irritation
- · Serious eye damage/irritation
- Causes serious eye damage.
- Respiratory or skin sensitisation
- May cause an allergic skin reaction. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Oral Reproductive 90 mg/kg (rabbit) (female 8-16 day(s) after conception)
- Repr. 2
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
 Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity
- Suspected of damaging the unborn child.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure
- Causes damage to organs through prolonged or repeated exposure. Aspiration hazard Based on available data, the classification criteria are not met.



12. ECOLOGICAL INFORMATION

- 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information: · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised. Danger to drinking water if even small quantities leak into the ground. • 12.5 Results of PBT and vPvB assessment

- PBT: Not applicable.
 vPvB: Not applicable.
 12.6 Other adverse effects No further relevant information available.

13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods
- Recommendation

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

- Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
- · Uncleaned packaging:
- · Recommendation: Dispose of in accordance with national regulations.

14. TRANSPORT INFORMATION

- · 14.1 UN-Number

- 14.1 UN-Number
 ADR, IMDG, IATA Not applicable
 ADR, IMDG, IATA Not applicable
 14.3 Transport hazard class(es)
 ADR, ADN, IMDG, IATA
 Class Not applicable
 14.4 Packing group
 ADR, IMDG, IATA Not applicable
 14.5 Environmental hazards: Not applicable.
 14.6 Special precautions for user Not applicable.
 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.
 UN "Model Regulation": Not applicable

- · UN "Model Regulation": Not applicable

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.
- · 15.2 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 all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!