

1: Identification of substance / mixture

1. Product Identifier

Substance

Product Name **Blasticidin S hydrochloride**
Product Code B12200
CAS Number 3513-03-9
Other Names
IUPAC
MFCN Number
EC/EINECS
REACH Number Index-No

2. Relevant identified uses of the substance or mixture and uses advised against

Research and Development

3. Details of the supplier of the safety data sheet

Melford Laboratories Ltd
Bildeston Road, Chelsworth
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UK



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4. Emergency telephone number

+44(0)1449 741178 -

2. Hazards Identification

1. Classification of the substance or mixture

| | | |
|------|--------------|--|
| H300 | Acute Tox. 2 | |
| H312 | Acute Tox. 4 | |

2. Label elements

Signal Word **Danger**



Hazard Statements

| | |
|------|-------------------------------|
| H300 | Fatal if swallowed. |
| H312 | Harmful in contact with skin. |

Precautionary Phrases

| | |
|-------------|--|
| P270 | Do not eat, drink or smoke when using this product. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P312 | Call a POISON CENTER or doctor/physician if you feel unwell. |
| P363 | Wash contaminated clothing before reuse. |

3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

3. Composition / Information on Ingredients

1. Substances

| Product Name | Hazards | Concentration |
|-----------------------------|---------------------------------------|---------------|
| Blasticidin S hydrochloride | | |
| CAS Number: 3513-03-9 | H300, H312 Acute Tox. 2, Acute Tox. 4 | <=100% |

4. First Aid Measures

1. Description of first aid measures

| | |
|---------------------|---|
| <i>Skin Contact</i> | P302 + P352: IF ON SKIN: Wash with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor. |
| <i>Eye Contact</i> | Bathe the eye with running water for 15 minutes. Ensure adequate flushing by separating the eyelids with fingers Consult a doctor. |
| <i>Ingestion</i> | P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting unless instructed to do so by medical personnel. Wash out mouth with water. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor. |
| <i>Inhalation</i> | Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible. |

2. Most important symptoms and effects

To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated

3. Indication of any immediate medical attention

P312: Call a POISON CENTER or doctor/physician if you feel unwell.
Notes to Physician Treat symptomatically

5. Firefighting measures

1. Extinguishing Media

Suitable Water spray.
Carbon dioxide.
Dry chemical powder.
Alcohol or polymer foam.

Unsuitable No data available

2. Special Hazards arising from the substance or mixture

In combustion emits toxic fumes of nitrous oxides, carbon oxides and hydrogen chloride.

3. Advice for Fire Fighters

Wear self-contained breathing apparatus.
Wear protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

1. Personal Precautions

Refer to section 8 of SDS for personal protection details.
Mark out the contaminated area with signs and prevent access to unauthorised personnel.

2. Environmental Precautions

Do not discharge into drains or rivers.

3. Methods & Materials

Transfer to a closable, labelled salvage container for disposal by an appropriate method.
Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

4. Preventing the occurrence of secondary hazards.

Clean up all spills immediately. Wear suitable PPE.

7. Handling and Storage

1. Personal Precautions

| | |
|--|--|
| <i>Safe Handling</i> | Avoid direct contact with the substance. Handle in fume hood. Avoid the formation or spread of dust in the air. P270: Do not eat, drink or smoke when using this product. |
| <i>Protection against explosions and fires</i> | P363: Wash contaminated clothing before reuse. Normal measures for preventive fire protection. |

2. Conditions for safe storage, including any incompatibilities

| | |
|-------------------------------|---|
| <i>Managing Storage Risks</i> | Store in cool, well ventilated area. Store at -20°C. |
| <i>Storage Controls</i> | Keep container tightly closed. |
| <i>Maintaining Integrity</i> | No special requirements |
| <i>Other advice</i> | no further information available |

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls

| | |
|--|--|
| <i>General protective and hygiene measures</i> | P280: Wear protective gloves/protective clothing/eye protection/face protection. The standard precautionary measures should be adhered to when handling Avoid contact with skin, eyes and clothing. Wash hands during breaks and at the end of handling the material |
| <i>Engineering measures</i> | Use only in a chemicals fume hood. |
| <i>Eye / Face Protection</i> | Safety Glasses with side shields. Ensure eye bath is to hand. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU) |
| <i>Hand protection</i> | Protective gloves. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it |
| <i>Respiratory protection</i> | Use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). |
| <i>Skin protection</i> | Protective clothing. Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. |
| <i>Other personal protection advice</i> | no data |

9. Physical and Chemical Properties

1. Physical and Chemical Properties

| | |
|--|-------------------|
| Appearance | White powder |
| Odour | No Data Available |
| Odour threshold | No Data Available |
| PH | No Data Available |
| Melting point / Freezing point | 218-225°C |
| Initial boiling point and boiling range | No Data Available |
| Flash point | No Data Available |
| Evaporation rate | No Data Available |
| Flammability(solid,gas) | No Data Available |
| Upper/lower flammability or explosive limits | No Data Available |
| Vapour pressure | No Data Available |
| Vapour density | No Data Available |
| Relative density | No Data Available |
| Solubility(ies): | Soluble in water |
| Partition coefficient: n-octanol/water | No Data Available |
| Auto-ignition temperature | No Data Available |
| Decomposition temperature | No Data Available |
| Viscosity | No Data Available |
| Explosive properties | No Data Available |
| Oxidising properties | No Data Available |

2. Other Information

No additional information available

10. Stability and Reactivity

1. Reactivity

No data available

2. Stability

Stable under recommended storage conditions

3. Possibility of Hazardous Reactions

No data available

4. Conditions to Avoid

No data available

5. Incompatible Materials

Strong oxidizing agents.
 Strong bases.

6. Hazardous Decomposition Products

In combustion emits toxic fumes.

11. Toxicology information

1. Information

| | |
|--|--|
| <i>Acute Toxicity</i> | May be fatal if swallowed. Oral LD50 (rat) 1mg/kg |
| <i>Skin corrosion/irritation</i> | May be harmful if absorbed through the skin. May cause skin irritation. No information available |
| <i>Serious eye Damage/irritation</i> | May cause eye irritation. |
| <i>Respiratory or skin sensitisation</i> | May be harmful if inhaled. No information available |
| <i>Germ Cell mutagenicity</i> | No information available |

| | |
|-------------------------------|--|
| <i>Carcinogenicity</i> | not known |
| <i>Reproductive toxicity</i> | No information available |
| <i>STOT-single exposure</i> | No information available |
| <i>STOT-repeated exposure</i> | No information available |
| <i>Aspiration hazard</i> | May be harmful if inhaled. No information available |

2. Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

12. Ecological Information

1. Toxicity

not known

2. Persistence and degradability

not known

3. Bio-Accumulative Potential

not known

4. Mobility and Soil

not known

5. Results of PBT & vPvB assessment

not known

6. Other adverse effects

not known

13. Disposal Considerations

1. Waste Treatment Methods

Disposal Operations Consult state, local or national regulations for proper disposal.

Disposal of Packaging Disposal must be made according to official regulations.

14. Transport Information

Air (ICAO)

1. **UN Number:** 2811
2. **Shipping Name:** Toxic solid, organic, n.o.s.
3. **Transport hazard class(es):** : 6.1 Sub Class :



4. **Packing group:** II
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:**

Road (ADR)

1. **UN Number:** 2811
2. **Shipping Name:** TOXIC SOLID, ORGANIC, N.O.S (Blasticidin S hydrochloride).

3. **Transport hazard class(es)** : 6 Sub Class :



4. **Packing group**: II

5. **Environmental hazards**:

6. **Special Precautions for user**:

7. **Transport in bulk**:

Sea (IMDG)

1. **UN Number**: 2811

2. **Shipping Name**: Toxic solid, organic, n.o.s.

3. **Transport hazard class(es)** : 6.1 Sub Class :



4. **Packing group**: II

5. **Environmental hazards**:

6. **Special Precautions for user**:

7. **Transport in bulk**: IBCINS: IBC08
IBCPPROV: B4, B21

TANKPROV: TP33

15. Safety, health, environmental and national regulations

1. Safety, health, environmental and national regulations:

product is not subject to any additional regulations or provisions

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

ADR: Accord Europeen sur le transport des marchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)

RID:Reglement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association

ICAO:International Civil Aviation Organization

ICAO-TI: Technical Instructions by the ICAO

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS:Chemical Abstracts Service

3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.