

185000

Revision: 01.04.2011  
Printing date: 07.07.2016

## 01 Identification of the substance/mixture and of the company/undertaking

- Product identifier
- Trade name:  
(Ala<sup>1,3,11,15</sup>)-Endothelin-1 trifluoroacetate salt
- Article number:  
new: 4030582      old: H-3066
- CAS Number:  
121204-87-3
- Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the preparation  
Laboratory chemicals
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:  
Bachem AG  
Hauptstrasse 144  
CH-4416 Bubendorf  
Switzerland  
E-mail msds@bachem.com  
Tel +41 58 595 2021  
Fax +41 58 595 2040
- Further information obtainable from:  
Department: Marketing
- Emergency telephone number:  
+41 44 251 51 51 (Tox Info Suisse)

## \* 02 Hazards identification

- Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS07

Acute Tox. 4 - H302 Harmful if swallowed.  
Acute Tox. 4 - H312 Harmful in contact with skin.  
Acute Tox. 4 - H332 Harmful if inhaled.

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



GHS07

- Signal word  
Warning
- Hazard statements  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H332 Harmful if inhaled.
- Precautionary statements  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P501a Dispose of contents/container in accordance with local/regional/ national/international regulations.

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## Safety data sheet according to 1907/2006/EC, Article 31

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- Other hazards
- Results of PBT and vPvB assessment
- PBT:  
Not applicable.
- vPvB:  
Not applicable.

### 03 Composition/information on ingredients

- Chemical characterization: Substances
- | <b>CAS No.</b> | <b>Description</b>                       |
|----------------|--|
| 121204-87-3    | (Ala <sup>1,3,11,15</sup> )-Endothelin-1 |
- Identification number(s)
  - EINECS Number:  
-
  - RTECS Number:  
-

### 04 First aid measures

- General information:  
Involve doctor immediately.  
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.  
Call a doctor immediately.
- After skin contact:  
Seek immediate medical advice.
- After eye contact:  
Rinse opened eye for several minutes under running water.
- After swallowing:  
Call for a doctor immediately.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed  
No further relevant information available.
- Indication of any immediate medical attention and special treatment needed  
No further relevant information available.

### 05 Firefighting measures

- Suitable extinguishing agents:  
CO<sub>2</sub>, 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:  
Mouth respiratory protective device.

### 06 Accidental release measures

- Personal precautions, protective equipment and emergency procedures  
Avoid formation of dust.  
Use respiratory protective device against the effects of fumes/dust/ aerosol.  
Wear protective clothing.
- Environmental precautions:  
Suppress gases/fumes/haze with water spray.
- Methods and material for containment and cleaning up:  
Dispose contaminated material as waste according to item 13.

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## 07 Handling and storage

- Handling:
  - Precautions for safe handling
    - Thorough dedusting.
    - Ensure good ventilation/exhaustion at the workplace.
    - Open and handle receptacle with care.
    - Prevent formation of dust.
  - Information about fire - and explosion protection:
    - Keep respiratory protective device available.
- Storage:
  - Requirements to be met by storerooms and receptacles:
    - No special requirements.
  - Information about storage in one common storage facility:
    - Store away from foodstuffs.
  - Further information about storage conditions:
    - Keep container tightly sealed.
    - Store in dry conditions.
  - Recommended storage temperature:
    - 20 +/- 5 °C
  - Specific end use(s)
    - No further relevant information available.

## 08 Exposure controls/personal protection

- Ingredients with limit values that require monitoring at the workplace:
  - Not required.
- Additional information:
  - The lists valid during the making were used as basis.
- Personal protective equipment:
  - General protective and hygienic measures:
    - Keep away from foodstuffs, beverages and feed.
    - Store protective clothing separately.
    - 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.
    - 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
    - Protective gloves
  - 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.
  - Eye protection:
    - Safety glasses

## 09 Physical and chemical properties

### General Information

#### Appearance:

<b>Form:</b>	Powder
<b>Colour:</b>	White
<b>Odour:</b>	Nearly odourless
<b>Odour threshold:</b>	Not determined.
<b>Molecular Weight</b>	2.367,7100 g/mol

#### Change in condition

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<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.
<b>Flash point:</b>	Not applicable.
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Ignition temperature:</b>	
<b>Decomposition temperature:</b>	Not determined.
<b>Self-igniting:</b>	Not determined.
<b>Danger of explosion:</b>	Not determined.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Density:</b>	Not determined.
<b>Solubility in / Miscibility with water:</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- 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.
- Dangerous decomposition products:  
No dangerous decomposition products known.

## 11 Toxicological information

- Acute toxicity:  
No further relevant information available.
- Primary irritant effect:
- on the skin:  
No further relevant information available.
- on the eye:  
No further relevant information available.
- Sensitization:  
No sensitizing effects known.

## 12 Ecological information

- 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.

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- Additional ecological information:
- General notes:  
Not known to be hazardous to water.
- 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
- Waste disposal key:  
18 02 05
- Uncleaned packaging:
- Recommendation:  
Disposal must be made according to official regulations.

### 14 Transport information

- ADR/RID class:** -
- IMDG Class:** -
- ICAO/IATA Class:** -
- Environmental hazards:  
Not applicable.
  - Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  
Not applicable.

### 15 Regulatory information

- 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 MSDS:  
Department: Marketing
- Abbreviations and acronyms:  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Règlement 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  
ICAO: International Civil Aviation Organisation  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
RTECS: Registry of Toxic Effects of Chemical Substances
- \* Data compared to the previous version altered.