

1741300

Revision: 16.11.2015
Printing date: 07.07.2016

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

- Product identifier
- Trade name:
Endothelin-1 (human, bovine, dog, mouse, porcine, rat) trifluoroacetate salt
- Article number:
new: 4048904 old: H-7758
- CAS Number:
117399-94-7
- 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



GHS06

Acute Tox. 3 - H301 Toxic if swallowed.
Acute Tox. 3 - H311 Toxic in contact with skin.
Acute Tox. 3 - H331 Toxic if inhaled.

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



GHS06

- Signal word
Danger
- Hazard statements
H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.
- Precautionary statements
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.
- Other hazards

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

03 Composition/information on ingredients

- Chemical characterization: Substances

CAS No.	Description
117399-94-7	Endothelin-1 (human, bovine, dog, mouse, porcine, rat) trifluoroacetate salt

- Identification number(s)
- EC number:
-
- RTECS Number:
KE9447500

04 First aid measures

- Description of first aid measures
- General information:
Involve doctor immediately.
Immediately remove any clothing soiled by the product.
Remove breathing equipment only after contaminated clothing have been completely removed.
In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation:
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.
Call a doctor immediately.
- After skin contact:
Immediately wash with water and soap and rinse thoroughly.
Seek immediate medical advice.
- 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.
- 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

- 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:
Mouth respiratory protective device.

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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.
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

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.
- 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:
Store away from foodstuffs.
- Further information about storage conditions:
Keep container tightly sealed.
Store in dry conditions.
- Recommended storage temperature:
< -15 °C
- Specific end use(s)
No further relevant information available.

08 Exposure controls/personal protection

- Control parameters
- Ingredients with limit values that require monitoring at the workplace:
CAS No. **Designation of material**
Not required.
- 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
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

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

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- 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

Information on basic physical and chemical properties

General Information

Appearance:

Form:	Lyophilisate
Colour:	White
Odour:	Nearly odourless
Odour threshold:	Not determined.
pH-value:	Not determined.

Change in condition

Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	
Decomposition temperature:	Not determined.
Self-igniting:	Not determined.
Danger of explosion:	Not determined.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not determined.
Density:	Not determined.
Solubility in / Miscibility with water:	at 25 °C 1,00 g/l
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Other information	No further relevant information available.

10 Stability and reactivity

- Reactivity
- Chemical stability
- 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.

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11 Toxicological information

- Information on toxicological effects
- 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 sensitising effects known.

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:
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- 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.
- Waste disposal key:
18 02 05
- Uncleaned packaging:
- Recommendation:
Disposal must be made according to official regulations.

14 Transport information

- UN-Number
ADR UN2811
IMDG UN2811
IATA UN2811
- UN proper shipping name
ADR 2811 TOXIC SOLID, ORGANIC, N.O.S. (Endothelin-1 (human, bovine, dog, mouse, porcine, rat) trifluoroacetate salt)

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IMDG TOXIC SOLID, ORGANIC, N.O.S. (Endothelin-1 (human, bovine, dog, mouse, porcine, rat) trifluoroacetate salt)

IATA TOXIC SOLID, ORGANIC, N.O.S. (Endothelin-1 (human, bovine, dog, mouse, porcine, rat) trifluoroacetate salt)

• Transport hazard class(es)

ADR
Class

6.1 (T2) Toxic substances.

Label

6.1


IMDG
Class

6.1 Toxic substances.

Label

6.1


IATA
Class

6.1 Toxic substances.

Label

6.1



• Packing group

ADR

III

IMDG

III

IATA

III

• Environmental hazards:

Not applicable.

• 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:

Not applicable.

Excepted quantities (EQ):

E1

Limited quantities (LQ)

5 kg

Transport category

2

Tunnel restriction code

E

• UN "Model Regulation":

UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (ENDOTHELIN-1 (HUMAN, BOVINE, DOG, MOUSE, PORCINE, RAT) TRIFLUOROACETATE SALT), 6.1, III

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15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations:
- Waterhazard class:
Water hazard class 1 (Self-assessment): slightly hazardous for water.
- 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
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
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
WGK: Wassergefährdungsklasse
vPvB: very Persistent and very Bioaccumulative