Page: 1 / 5



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

268100

Revision: 15.04.2011 Printing date: 07.07.2016

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

- · Product identifier
- Trade name: (H-Cys-Val-OH)<sub>2</sub> (Disulfide bond)
- · Article number:

new: 4000674 old: G-1840

- CAS Number: 21141-84-4
- · 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

• Further information obtainable from:

Department: Marketing

Fax +41 58 595 2040

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

  Void
- Signal word

Void

Hazard statements

Void

- Other hazards
- · Results of PBT and vPvB assessment
- PRT

Not applicable.

vPvB:

Not applicable.

#### 03 Composition/information on ingredients

· Chemical characterization: Substances

CAS No. Description (H-Cys-Val-OH)2

- Identification number(s)
- · EINECS Number:

RTECS Number:

(Contd. on page 2)

Page: 2 / 5



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

268100

Revision: 15.04.2011 Printing date: 07.07.2016

PRODUCT: (H-Cys-Val-OH)<sub>2</sub>

(Disulfide bond)

(Contd. of page 1)

#### 04 First aid measures

· General information:

No special measures required.

· After inhalation:

Supply fresh air; consult doctor in case of complaints.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

· After eye contact:

Rinse opened eye for several minutes under running water.

· After swallowing:

Call 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:

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

Special hazards arising from the substance or mixture

No first an advant information and labels.

No further relevant information available.

- · Advice for firefighters
- · Protective equipment:

No special measures required.

#### 06 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions:

No special measures required.

Methods and material for containment and cleaning up:

Pick up mechanically.

### 07 Handling and storage

- · Handling:
- Precautions for safe handling

Prevent formation of dust.

· Information about fire - and explosion protection:

No special measures required.

- 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:

Store in dry conditions.

Recommended storage temperature:

-20 +/- 5 °C

Specific end use(s)

No further relevant information available.

GB





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

268100

Revision: 15.04.2011 Printing date: 07.07.2016

PRODUCT: (H-Cys-Val-OH)<sub>2</sub> (Disulfide bond)

(Contd. of page 2)

#### 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:

The usual precautionary measures are to be adhered to when handling chemicals.

· 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.

Use suitable respiratory protective device in case of insufficient ventilation.

· 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 propertie	es
General Information	
Appearance:	
Form:	Powder
Colour:	White
Odour:	Nearly odourless
Odour threshold:	Not determined.
Molecular Weight	438,5700 g/mol
Change in condition	
Melting point/Melting range:	Undetermined.
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:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Other information	No further relevant information available.

GB

Page: 4 / 5



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

268100

Revision: 15.04.2011 Printing date: 07.07.2016

PRODUCT: (H-Cys-Val-OH)2

(Disulfide bond)

(Contd. of page 3)

### 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.
- · Additional toxicological information:

The substance is not subject to classification according to the latest version of the EU lists.

### 12 Ecological information

- · Acquatic 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:
  - 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 06
- Uncleaned packaging:
- · Recommendation:
  - Disposal must be made according to official regulations.

GB

Page: 5 / 5



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

268100

Revision: 15.04.2011 Printing date: 07.07.2016

PRODUCT: (H-Cys-Val-OH)2

(Disulfide bond)

(Contd. of page 4)

#### 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.