

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

1517900

Revision: 16.01.2014 Printing date: 07.07.2016

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

- · Product identifier
- · Trade name:

Z-D-Arg-Gly-Arg-pNA · 2 HCl

Article number:

new: 4029223 old: L-2115

CAS Number:

113711-77-6

- · 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
 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
- PBT:

Not applicable.

vPvB:

Not applicable.

03 Composition/information on ingredients

· Chemical characterization: Substances

CAS No. Description

113711-77-6 Z-D-Arg-Gly-Arg-pNA · 2 HCl

- Identification number(s)
- EC number:

RTECS Number:

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 Impurities and stabilising additives: p-nitroaniline (CAS-No. 100-01-6) < 0.1% (Contd. of page 1)

04 First aid measures

- · Description of first aid measures
- · 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

- · 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:
 - No special measures required.

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:
- Pick up mechanically.
- · Reference to other sections

07 Handling and storage

- · Handling:
- · Precautions for safe handling
 - Prevent formation of dust.
- Information about fire and explosion protection:
 - No special measures required.
- · 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: Store in dry conditions.

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- Recommended storage temperature:
 -20 +/- 5 °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:

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 properties

Information on basic physical and che	emical properties	
General Information		
Appearance:		
Form:	Powder	
Colour:	Light yellow	
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.	
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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.	

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.

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 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

- · 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.
- Results of PBT and vPvB assessment
- PBT:

Not applicable.

- vPvB:
 - Not applicable.
- Other adverse effects

No further relevant information available.

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Void

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- 13 Disposal considerationsWaste treatment methods
 - Waste disposal key: 18 02 06
 - · Uncleaned packaging:
 - Recommendation:

Disposal must be made according to official regulations.

14 Transport information

• UN-Number

ADR

IMDG

IATAUN proper shipping name

ADR Void
IMDG Void
IATA Void

· Transport hazard class(es)

ADR

Class Void

IMDG

Class Void

IATA

Class Void

· Packing group

ADR Void
IMDG Void
IATA Void

- · Environmental hazards:
- Not applicable.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.
- Transport/Additional information:

Not applicable.

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- · 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)

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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

vPvB: very Persistent and very Bioaccumulative