

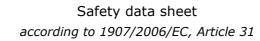
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Revision: 20.01.2014 Printing date: 07.07.2016

 Product identifier Trade name: (H-Cys-pNA), (Dsuffice bond) (R-(R-(R))-33-Dhihobis[2-amino-N-(4-nitrophenyl)propionamide] Article number: new: 400184 old: L-1255 CAS Number: 34199-07-0 EC number: 251-872-6 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 Bubendori Switzerland Further information obtainable from: Department: Marketing Emergency telephone number: +41 44 251 51 51 (Tox link Suisse) Hazards identification (EC) No 1272/2008 Void Label elements 	Identification of the substance (mixture and of the company (under	aking
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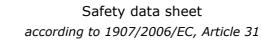
Revision: 20.01.2014 Printing date: 07.07.2016

	Printing date: 07.
PRODUCT: (H-Cys-pNA)₂ (Disulfide bond)	
	(Contd. of page 1)
03 Composition/information on ingredients	
Chemical characterization: Substances	
CAS No. Description 34199-07-0 (H-Cys-pNA)2	
(Disulfide bond)	
Identification number(s)	
• EC number: 251-872-6	
RTECS Number:	
-	
 Impurities and stabilising additives: p-nitroaniline (CAS-No. 100-01-6) < 0.1% 	
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	
 Special nazards arising from the substance or mixture No further relevant information available. 	
Advice for firefighters	
Protective equipment:	
No special measures required.	
06 Accidental release measures	
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/base with water spray	
Suppress gases/fumes/haze with water spray.Methods and material for containment and cleaning up:	
Pick up mechanically.	
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· Reference to other sections

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(Contd. on page 3)



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Revision: 20.01.2014 Printing date: 07.07.2016

(Disulfide bond)	PRODUCT : (H-Cvs-pNA	
Control parameters Proceedings Controls/personal protection Control parameters Controls Control Contr	(···· / • •····	
97 Handling: • 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: • Conditions for safe storage in one common storage facility: Storage: • Information about storage in one common storage facility: Store away from footshuffs. • Further information about storage conditions: Store in dry conditions. • Recommended storage temperature: -20 + 5 °C • Specific end use(s) No further relevant information available. • 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: In case of birlef exposure or low polution use respiratory filter device. In case of intensive or longer exposure use self-contain respiratory protection: In case of birlef exposure or low polution use respiratory filter device. In case of intensive or longer exposure use self-contain respiratory protective end by device in case of matificient ventilation. • Perotection of thangit tests no consideration of the perversion times, rates of diffusion and the degradation Protective gives • the given material has to be impermeable and resistant to the producut the spearation the chemi		•
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Information on basic physical and chemical properties General Information Appearance:	09 Physical and chemic	al properties
General Information Appearance:		
Appearance:		αι από υπεππισαι μι υμεί μες
Form: Powder		
	Form:	Powder
	Colour:	Light yellow

(Contd. on page 4)



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

1525000

Revision: 20.01.2014 Printing date: 07.07.2016

RODUCT : (H-Cys-pNA)₂ (Disulfide bond)		
	(Contd. of page	÷ 3)
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:	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other information	No further relevant information available.	

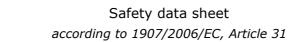
10 Stability and reactivity

- 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.



BACHEM

Revision: 20.01.2014 Printing date: 07.07.2016

	(Contd. of page 4
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	
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.

14 Transport information

UN-Number	
ADR	Void
IMDG	Void
ΙΑΤΑ	Void
 UN proper shipping name 	
ADR	Void
IMDG	Void
ΙΑΤΑ	Void
 Transport hazard class(es) 	
ADR	
Class	Void
IMDG	
Class	Void
ΙΑΤΑ	
Class	Void
Packing group	
ADR	Void
IMDG	Void
ΙΑΤΑ	Void
 Environmental hazards: Not applicable. 	
 Transport in bulk according to Annex II of MARPC Not applicable. 	0L73/78 and the IBC Code

• Transport/Additional information:



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

1525000

BACHEM

Revision: 20.01.2014 Printing date: 07.07.2016

PRODUCT : (H-Cys-pNA)₂

(Disulfide bond)

(Contd. of page 5)

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)

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