

**Material Safety Data Sheet**

according to ANSI Z400.1-2004

**NODAGA-RGD dimer acetate**

Print date: 08.05.2012

Product code: 9804

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Product identifier**

NODAGA-RGD dimer acetate

**Further trade names**Cyclo(L-arginylglycyl-L-a-aspartyl-D-tyrosyl-L-lysyl), N6-  
([[4,7-bis(carboxymethyl)octahydro-1H-1,4,7-triazonin-1-yl]acetyl])-L-glutamoyl]bis-

Synonyms:

NODAGA-RGD

**Chemical characterization ( substance )**Cyclo(L-arginylglycyl-L-a-aspartyl-D-tyrosyl-L-lysyl), N6-  
([[4,7-bis(carboxymethyl)octahydro-1H-1,4,7-triazonin-1-yl]acetyl])-L-glutamoyl]bis-**Details of the supplier of the safety data sheet**

Company name:	ABX advanced biochemical compounds	
	Biomedizinische Forschungsreagenzien GmbH	
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Place:	D-01454 Radeberg	
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**Emergency telephone:** +49 3528 4041 60**SECTION 2: Hazards identification****Route(s) of Entry**

Toxicological data are not available.

**Signs and Symptoms of Exposure**

Carcinogenicity (NTP): Toxicological data are not available.

Carcinogenicity (IARC): Toxicological data are not available.

Carcinogenicity (OSHA): Toxicological data are not available.

**Other hazards**

Warning - substance not yet tested completely.

**SECTION 3: Composition/information on ingredients****Substances**

Sum formula: C74H110N22O25

Molecular weight: 1707.80

**SECTION 4: First aid measures****Description of first aid measures**

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**After inhalation**

Provide fresh air.

**After contact with skin**

After contact with skin, wash immediately with: Water. Change contaminated clothing.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

**After ingestion**

If swallowed, immediately drink: Water. Immediately get medical attention.

**SECTION 5: Firefighting measures****Extinguishing media****Suitable extinguishing media**Extinguishing materials should be selected according to the surrounding area. Suitable extinguishing media: Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>). Atomized water.**Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Contaminated fire-fighting water must be collected separately. Do not empty into drains or the aquatic environment.

**SECTION 6: Accidental release measures****Environmental precautions**

Do not empty into drains or the aquatic environment.

**Methods and material for containment and cleaning up**

Collect mechanically. Treat the assimilated material according to the section on waste disposal.

**SECTION 7: Handling and storage****Precautions for safe handling****Advice on safe handling**

Do not breathe dust. Conditions to avoid: skin contact. Eye contact. Wear personal protection equipment. Do not eat, drink, smoke or sneeze at the workplace.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container dry. Keep container tightly closed.

**Further information on storage conditions**

Recommended storage temperature:

of °C: -25

up to °C: -15

Protect against: Light.

**SECTION 8: Exposure controls/personal protection****Control parameters****Exposure controls****Occupational exposure controls**

In case of open handling equipment with built-in suction must be used. Do not breathe dust.

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**Protective and hygiene measures**

Change contaminated clothing. Wash hands before breaks and at the end of work. When using do not eat or drink.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties**

Form: fest  
Color: off-white

**Test method****Changes in the physical state**

Solubility in other solvents: dimethylsulphoxide (DMSO). Dimethylformamide

**SECTION 10: Stability and reactivity**

Stability: Stable  
Possibility of Hazardous Reactions: Will not occur

**Conditions to avoid**

Light.

**Hazardous decomposition products**

Carbon dioxide. Carbon monoxide. Nitrogen oxides (NO<sub>x</sub>).

**SECTION 11: Toxicological information****Information on toxicological effects****Additional information on tests**

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

**Further information**

Toxicological data are not available.

**SECTION 12: Ecological information****Further information**

Do not empty into drains or the aquatic environment. The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

**SECTION 13: Disposal considerations****Waste treatment methods****Advice on disposal**

Do not empty into drains or the aquatic environment. Waste disposal according to official state regulations.

**Contaminated packaging**

Cleaned containers may be recycled.

**SECTION 14: Transport information****US DOT 49 CFR 172.101**

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**Proper shipping name**

Not a hazardous material with respect to transportation regulations.

**Other applicable information**

Not a hazardous material with respect to these transportation regulations.

**SECTION 15: Regulatory information****U.S. Regulations****SECTION 16: Other information****Hazardous Materials Information Label (HMIS)**

Health:	1
Flammability:	1
Physical Hazard:	1
Personal Protection:	C