

Material Safety Data Sheet

according to ANSI Z400.1-2004

DOTA-cyclo(RGDfK) acetate

Print date: 29.03.2012

Product code: 9863

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

DOTA-cyclo(RGDfK) acetate

Further trade names

Cyclo[L-arginylglycyl-L-a-aspartyl-D-phenylalanyl-N6-[2-[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]-L-lysyl]

Synonyms:

DOTA-RGD

Chemical characterization (substance)

Cyclo[L-arginylglycyl-L-a-aspartyl-D-phenylalanyl-N6-[2-[4,7,10-tris(carboxymethyl)-1,4,7,10-tetraazacyclododec-1-yl]acetyl]-L-lysyl]

CAS No.: 909024-55-1

Details of the supplier of the safety data sheet

Company name:	ABX advanced biochemical compounds		
	Biomedizinische Forschungsreagenzien GmbH		
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Emergency telephone: +49 3528 4041 60**SECTION 2: Hazards identification****Route(s) of Entry****Signs and Symptoms of Exposure**

Carcinogenicity (NTP):	No information available.
Carcinogenicity (IARC):	No information available.
Carcinogenicity (OSHA):	No information available.

Other hazards

Warning - substance not yet tested completely.

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

Sum formula:	C43H67N13O14 x CH3CO2H
Molecular weight:	990,1 (net peptide)

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

Rinse mouth immediately and drink large quantities of water. Medical treatment necessary.

SECTION 5: Firefighting measures**Extinguishing media****Suitable extinguishing media**Water spray. Foam. Extinguishing powder. Carbon dioxide (CO₂).**Special hazards arising from the substance or mixture**Can be released in case of fire: Carbon dioxide (CO₂). Carbon monoxide. Nitrogen oxides (NO_x).**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**Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment. Provide adequate ventilation. Avoid generation of dust.

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. In case of open handling equipment with built-in suction must be used.

Further information on handling

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

storage temperature:

of °C: -25

up to °C: -15

Protect against: Light.

Store under (Gas): argon. Nitrogen.

SECTION 8: Exposure controls/personal protection

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Control parameters**Exposure controls****Protective and hygiene measures**

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

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Hand protection

Tested protective gloves are to be worn: Single-use gloves. NBR (Nitrile rubber).

Eye protection

Eye protection: Tightly sealed safety glasses.

Skin protection

Skin protection: Lab apron. Chemical resistant safety shoes.

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

Form: solid
Color: off-white

Test method**Changes in the physical state****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_x).

SECTION 11: Toxicological information**Information on toxicological effects****Carcinogenic/mutagenic/toxic effects for reproduction**

No information available.

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).

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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. Handle contaminated packaging in the same way as the substance itself.

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