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

2053800

Revision: 10.03.2017 Printing date: 10.03.2017

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

- · Product identifier
- Trade name: DOTA(OtBu)₃ hydrobromide salt
- Article number:

new: 4029066 old: Q-2525

 CAS Number: 137076-54-1

- · 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



GHS07

Skin Irrit. 2 - H315 Causes skin irritation.

Eye Irrit. 2 - H319 Causes serious eye irritation.

STOT SE 3 - H335 May cause respiratory irritation.

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



GHS07

Signal word

Warning

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

· Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P302+P352 IF ON SKIN: Wash with plenty of water.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

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PRODUCT: DOTA(OtBu)₃ hydrobromide salt

· 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

137076-54-1 DOTA(OtBu)₃ hydrobromide salt

· Identification number(s)

· EC number:

-

· RTECS Number:

_

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.

Seek immediate medical advice.

· After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

· 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

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07 Handling and storage

- · Handling:
- · Precautions for safe handling

Open and handle receptacle with care.

Prevent formation of dust.

· Information about fire - and explosion protection:

Keep respiratory protective device available.

- · 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:

 Stora away from foodstuffs
 - Store away from foodstuffs.
- Further information about storage conditions:

Store in dry conditions.

Recommended storage temperature:

2-8°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:
- · Additional information:

The lists valid during the making were used as basis.

- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Store protective clothing separately.

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.

· 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 chemical properties

General Information

Appearance:

Form: Powder Colour: White

Odour:Nearly odourlessOdour threshold:Not determined.pH-value:Not determined.

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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 sensitising effects known.

12 Ecological information

- Toxicity
- · Aquatic toxicity:

No further relevant information available.

- Persistence and degradability
- No further relevant information available.
- · Behaviour in environmental systems:

(Contd. on page 5)





Void

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PRODUCT: DOTA(OtBu)₃ hydrobromide salt

· 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 05
- Uncleaned packaging:
- · Recommendation:

• UN-Number **ADR**

Disposal must be made according to official regulations.

14 Transport information

IMDG Void **IATA** Void · UN proper shipping name **ADR** Void **IMDG** Void IATA Void · Transport hazard class(es) ADR Void Class **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.

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15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations:
- · Waterhazard class:
 - Generally not hazardous for water.
- 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

WGK: Wassergefährdungsklasse

· * Data compared to the previous version altered.