

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

1339300

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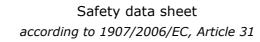
Revision: 22.01.2013 Printing date: 07.07.2016

• F	Product identifier	
• 1	Trade name:	
5	S-(1,2-Dicarboxyethyl)glutathione	
	Article number:	
r	new: 4025062 old: H-1556	
	CAS Number:	
1	1115-52-2	
• F	Relevant identified uses of the substance or mixture and uses advised against	
	Application of the substance / the preparation	
L	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	
F	Fax +41 58 595 2040	
	Further information obtainable from:	
L	Department: Marketing	
	Emergency telephone number: +41 44 251 51 51 (Tox Info Suisse)	
2 H	lazards 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	
• 5	Signal word	
	√oid Hazard statements	
	Void	
	Other hazards	
	Results of PBT and vPvB assessment	
• F	PBT:	
	Not applicable.	
	vPvB:	
1	Not applicable.	

- Chemical characterization: Substances
- CAS No.Description1115-52-2S-(1,2-Dicarboxyethyl)glutathione• Identification number(s)
- EC number:
- RTECS Number:

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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.

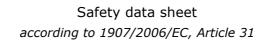
06 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: No special measures required.
- 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.
- Recommended storage temperature: -20 +/- 5 °C
- Specific end use(s)
- No further relevant information available.





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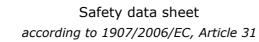
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		(Contd. of page 2)
08 Expos	ure controls/personal protection	
Control	I parameters	
 Ingredi 	ents with limit values that require monitoring at the workplace:	
CAS No.	Designation of material	
Not requ	uired.	
Additio	nal information:	
The lists	s valid during the making were used as basis.	
 Exposu 	ure controls	
 Person 	nal protective equipment:	
 Generation 	al protective and hygienic measures:	
	al precautionary measures are to be adhered to when handling chemicals.	
	atory protection:	
	of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposu	re use self-contained
•	ory protective device. table respiratory protective device in case of insufficient ventilation.	
	tion of hands:	
	ve material has to be impermeable and resistant to the product/ the substance/ the preparation.	
•	missing tests no recommendation to the glove material can be given for the product/ the preparatior	/ the chemical mixture.
Selectio	on of the glove material on consideration of the penetration times, rates of diffusion and the degrada	tion
Protecti	ve gloves	
 Materia 	al of gloves	
	ection of the suitable gloves does not only depend on the material, but also on further marks of qual cturer to manufacturer.	ity and varies from
	ation time of glove material	
	act break through time has to be found out by the manufacturer of the protective gloves and has to h	be observed.
 Eye pro 	otection: glasses	

09 Physical and chemical properties

General Information		
Appearance:		
Form:	Lyophilisate	
Colour:	White	
Odour:	Nearly odourless	
Odour threshold:	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:	at 25 ℃ 10,00 g/l	
Viscosity:		
Dynamic:	Not determined.	





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Kinematic: Other information Not determined.

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

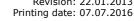
- · Information on toxicological effects
- Acute toxicity:
- No further relevant information available.
- · Primary irritant effect:
- · on the skin:
 - No further relevant information available.
- on the eye:
- No further relevant information available. Sensitization:
- No sensitizing effects known.
- 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.
- 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.

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PRODUCT : S-(1,2-Dicarboxyethyl)glutathione (Contd. of page 4) 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

Void

Void

Void

Void Void Void

С	lass
IA	ΤΑ
С	lass
	Packing group DR
IN	IDG
IA	ΤΑ
	Environmental hazards: Not applicable.
	Transaction built according to Assess II of MADDOL 72

 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

 Transport/Additional information: Not applicable.

15 Regulatory information

Transport hazard class(es)

ADR

Class IMDG

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

- National regulations:
- · Waterhazard class:
- Generally not hazardous for water.Self-assessment
- 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

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PRODUCT : S-(1,2-Dicarboxyethyl)glutathione (Contd. of page 5) · 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 vPvB: very Persistent and very Bioaccumulative