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Safety Data Sheet acc. to OSHA HCS

Printing date 05/30/2020

Revision date 05/30/2020

1 Identification

Product identifier

- · Trade name: GABAA Receptor α1 Subunit Polyclonal Antibody
- · Synonym γ-Aminobutyric Acid Receptor Subunit α1; GABAA Receptor Subunit α1; GABRA1
- · Article number: 29266
- · Application of the substance / the mixture For research use only not for human or veterinary use.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA
- Information department: Product safety department
 Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300

Outside US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

2 Hazard(s) identification

• **Classification of the substance or mixture** The product is not classified, according to the Globally Harmonized System (GHS).

- · Label elements
- · GHS label elements None
- · Hazard pictograms None
- · Signal word None
- · Hazard statements None
- · Classification system:
- NFPA ratings (scale 0 4)

Health = 0 Fire = 1 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH0Health = 0FIRE1Fire = 1REACTIVITY0Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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Chemical characteri Description: Mixture	of the substances listed below with nonhazardous additions.	
Dangerous compone CAS: 56-81-5	Glycerol	50.0%
RTECS: MA8050000		
· Other ingredients		
CAS: 7732-18-5 RTECS: ZC0110000	Water	48.86%
CAS: 7647-14-5 RTECS: VZ4725000	Sodium chloride	0.88%
CAS: 7365-45-9 RTECS: TL6809000	HEPES, free acid	0.24%
CAS: 9048-46-8 RTECS: MT6446000	Albumin, bovine	0.01%
	GABAA Receptor α1 Subunit Polyclonal Antibody	0.01%

4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

- A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters

· Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Not required.
 Environmental precautions:
- Dilute with plenty of water.

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(Contd. from page 2) Do not allow to enter sewers/ surface or ground water. • Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. Protective Action Criteria for Chemicals · PAC-1: 56-81-5 Glycerol 45 mg/m³ 7365-45-9 HEPES, free acid 30 mg/m³ · PAC-2: 56-81-5 Glycerol 180 mg/m³ 7365-45-9 HEPES, free acid 330 mg/m³ · PAC-3: 1,100 mg/m³ 56-81-5 Glycerol 7365-45-9 HEPES, free acid 2,000 mg/m³

7 Handling and storage

· Handling:

- Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities Keep container tightly closed.

Store in accordance with information listed on the product insert.

- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

Control parameters

· Components with limit values that require monitoring at the workplace:

56-81-5 Glycerol

PEL Long-term value: 15* 5** mg/m³

mist; *total dust **respirable fraction

TLV TLV withdrawn-insufficient data human occup. exp.

• Additional information: The lists that were valid during the creation were used as basis.

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

The usual precautionary measures for handling chemicals should be followed.

• Breathing equipment: Not required.

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• Protection of hands:

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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

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· 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: Goggles recommended during refilling.

9 Physical and chemical properties

Information on basic physical and o	chemical properties
· General Information	
· Appearance: Form:	offinity purified polyclonal antibady
Color:	affinity-purified polyclonal antibody Not determined.
· Odor:	Characteristic
Storage Buffer	10 mM HEPES, pH 7.5, with 150 mM sodium chloride, 100
Storage Barrer	μg BSA per ml, and 50% glycerol
· Odor threshold:	Not determined.
· pH-value at 20 °C (68 °F):	7.5
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C (212 °F)
· Flash point:	199 °C (390.2 °F)
· Flammability (solid, gaseous):	Not applicable.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
 Danger of explosion: 	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
[·] Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
 Solubility in / Miscibility with 	
Water:	Fully miscible.
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Partition coefficient (n-octan	ol/water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	50.0 %	
Water:	48.9 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	1.2 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

- · 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:

· LD/LC50 values that are relevant for classification:

E0 04 E		
56-81-5	Glycerol	

Oral	LD50	12,600 mg/kg (rat)
Irritation of skin	Irritation	12,600 mg/kg (rat) 500 mg/24h (rabbit)
Irritation of eyes	Irritation	500 mg/24h (rabbit)
	Intraperitoneal LD50	4,420 mg/kg (rat)
	Subcutaneous LD50	100 mg/kg (rat)

· Primary irritant effect:

• on the skin: No irritant effect.

- on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.

• Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

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· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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
- Recommendation: Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

· UN-Number · DOT, IMDG, IATA	not regulated	
 UN proper shipping name DOT, IMDG, IATA 	not regulated	
· Transport hazard class(es)		
· DOT, ADN, IMDG, IATA		
Class	not regulated	
· Packing group		
· DOT, IMDG, IATA	not regulated	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not applicable.	
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• Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	not regulated

15 Regulatory information

 $^{\rm \cdot}$ Safety, health and environmental regulations/legislation specific for the substance or mixture $^{\rm \cdot}$ Sara

· Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
· TSCA (Toxic Substances Control Act):	
56-81-5 Glycerol	ACTIVE
7732-18-5 Water	ACTIVE
7647-14-5 Sodium chloride	ACTIVE
7365-45-9 HEPES, free acid	ACTIVE
9048-46-8 Albumin, bovine	ACTIVE
· Hazardous Air Pollutants	
None of the ingredients is listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
 Chemicals known to cause reproductive toxicity for males: 	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
 TLV (Threshold Limit Value established by ACGIH) 	
None of the ingredients is listed.	
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
· GHS label elements None	
Hazard pictograms None	
· Signal word None	
 Hazard statements None Chemical safety assessment: A Chemical Safety Assessment has not been carr 	ied out
Chemical salety assessment. A Chemical Salety Assessment has hot been can	

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	r information formation is based on our present knowledge. However, this shall not constitute a guarantee
	ecific product features and shall not establish a legally valid contractual relationship.
-	tment issuing SDS: Environment protection department.
Contac	ct: -
Date of	f preparation / last revision 05/30/2020 / -
Abbrev	viations and acronyms:
	nternational Maritime Code for Dangerous Goods
	S Department of Transportation
	ternational Air Transport Association
	American Conference of Governmental Industrial Hygienists
	: European Inventory of Existing Commercial Chemical Substances
	: European List of Notified Chemical Substances nemical Abstracts Service (division of the American Chemical Society)
	lational Fire Protection Association (USA)
	azardous Materials Identification System (USA)
	platile Organic Compounds (USA, EU)
	ethal concentration, 50 percent
	ethal dose, 50 percent
	rsistent, Bioaccumulative and Toxic
	ery Persistent and very Bioaccumulative
	National Institute for Occupational Safety
	Dccupational Safety & Health reshold Limit Value
	rmissible Exposure Limit
	commended Exposure Limit
	compared to the previous version altered.
Data	compared to the previous version altered.