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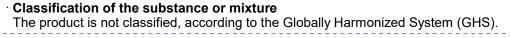
#### **1** Identification

- · Product identifier
- · Trade name: CB2 Receptor Polyclonal Antibody
- · Synonym Cannabinoid Receptor 2
- · Article number: 101550
- Application of the substance / the mixture

This product is for research use - Not for human or veterinary diagnostic or therapeutic 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: 703-741-5970

### 2 Hazard(s) identification



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





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

#### **3 Composition/information on ingredients**

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous compone	ents:	
CAS: 56-81-5 RTECS: MA8050000	Glycerol	50.0%
· Other ingredients		
CAS: 7732-18-5 RTECS: ZC0110000	Water	48.8%
CAS: 7647-14-5 RTECS: VZ4725000	Sodium chloride	0.8%
	CB2 Receptor Polyclonal Antibody	<0.2%
CAS: 7558-79-4 RTECS: WC4500000	Sodium phosphate, Dibasic	0.14%
CAS: 7447-40-7 RTECS: TS8050000	Potassium chloride	0.02%
CAS: 7778-77-0 RTECS: TC6615500	Potassium phosphate, Monobasic	0.02%
CAS: 26628-22-8 RTECS: VY8050000	Sodium azide	0.02%

#### **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 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.

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· Advice for firefighters

• Protective equipment: No special measures required.

#### 6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Not required.

- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Pick up mechanically.
- · 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 Chiefla for Chemicals				
· PAC-1:				
56-81-5	Glycerol	45 mg/m³		
7778-77-0	Potassium phosphate, Monobasic	9.6 mg/m <sup>3</sup>		
26628-22-8	Sodium azide	0.026 mg/m³		
· PAC-2:				
56-81-5	Glycerol	180 mg/m³		
7778-77-0	Potassium phosphate, Monobasic	110 mg/m³		
26628-22-8	Sodium azide	0.29 mg/m³		
· PAC-3:				
56-81-5	Glycerol	1,100 mg/m³		
7778-77-0	Potassium phosphate, Monobasic	630 mg/m³		
26628-22-8	Sodium azide	5.3 mg/m <sup>3</sup>		

### 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
- Storage: Store in accordance with information listed on the product insert.
- 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 section 7.

#### Control parameters

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

#### 56-81-5 Glycerol

PEL Long-term value: 15\* 5\*\* mg/m<sup>3</sup>

mist; \*total dust \*\*respirable fraction

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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.         • Protection of hands:
<ul> <li>Exposure controls</li> <li>Personal protective equipment:</li> <li>General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.</li> <li>Breathing equipment: Not required.</li> <li>Protection of hands:</li> </ul>
<ul> <li>Personal protective equipment:</li> <li>General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.</li> <li>Breathing equipment: Not required.</li> <li>Protection of hands:</li> </ul>
• General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. • Breathing equipment: Not required. • Protection of hands:
The usual precautionary measures for handling chemicals should be followed. • Breathing equipment: Not required. • Protection of hands:
Breathing equipment: Not required. Protection of hands:
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
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. • <b>Penetration time of glove material</b>
The exact break through time has to be found out by the manufacturer of the protective gloves and has
to be observed.
• Eye protection: Not required.

Information on basic physical and	chemical properties
General Information	
Appearance:	
Form: Color:	clear liquid
Odor:	According to product specification Characteristic
Storage Buffer	PBS, pH 7.2, with 50% glycerol and 0.02% sodium azide
Odor threshold:	Not determined.
Formulation	200 µl of peptide affinity-purified polyclonal antibody
pH-value at 20 °C (68 °F):	7.2
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 determined.
Auto igniting:	400 °C (752 °F)
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.

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Upper:	Not determined.	
· Vapor pressure at 20 °C (68 °F): · Vapor pressure at 50 °C (122 °F):	23 hPa (17.3 mm Hg) ∼0 hPa	
<ul> <li>Density:</li> <li>Relative density</li> <li>Vapor density</li> <li>Evaporation rate</li> </ul>	Not determined. Not determined. Not applicable. Not applicable.	
<ul> <li>Solubility in / Miscibility with Water:</li> </ul>	Soluble.	
· Partition coefficient (n-octanol/wate	ər): Not determined.	
· Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.	
<ul> <li>Solvent content:</li> <li>Organic solvents:</li> <li>Water:</li> <li>VOC content:</li> </ul>	50.0 % 48.8 % 0.00 %	
· 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:

56-81-5 Glycero			
Oral	LD50	12,600 mg/kg (rat)	
Irritation of skin	Irritation	500 mg/24h (rabbit) mild	
Irritation of eyes	Irritation	500 mg/24h (rabbit) mild	
	Intraperitoneal LD50	4,420 mg/kg (rat)	
	Subcutaneous LD50	100 mg/kg (rat)	

• on the skin: No irritant effect.

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 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.

• 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.

· UN-Number		
· DOT, IMDG, IATA	UN1759	
· UN proper shipping name		
DOT	Corrosive solids, n.o.s. (Glycerol)	

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IMDG	(Contd. from page CORROSIVE SOLID, N.O.S. (Glycerol)
ΙΑΤΑ	Corrosive solid, n.o.s. (Glycerol)
Transport hazard class(es)	
DOT	
CORROSIVE 6	
Class	8 Corrosive substances
Label	8
IMDG, IATA	
UT IN	
Class Label	8 Corrosive substances 8
Packing group	5
DOT, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code)	
EMS Number: Stowage Category	F-A,S-B A
Transport in bulk according to Annex II of	<u>_</u>
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 25 kg
	On cargo aircraft only: 100 kg
IMDG	
Limited quantities (LQ) Excepted quantities (EQ)	5 kg Code: E1
Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
ΙΑΤΑ	
Remarks:	When sold in quantities of less than or equal to 1 ml or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimi Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled a Dangerous Goods/Excepted Quantity.
	UN 1759 CORROSIVE SOLID, N.O.S. (GLYCEROL

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· Safety, hea	th and environmental regulations/legislation specific f	for the substance or mixture
No further re	elevant information available.	
· Sara		
	e (extremely hazardous substances):	
26628-22-8	Sodium azide	
· Section 313	(Specific toxic chemical listings):	
26628-22-8	Sodium azide	
· TSCA (Toxi	c Substances Control Act):	
56-81-5	Glycerol	ACTIVE
7732-18-5		ACTIVE
	Sodium chloride	ACTIVE
	Sodium phosphate, Dibasic	ACTIVE
7447-40-7	Potassium chloride	ACTIVE
	Potassium phosphate, Monobasic	ACTIVE
26628-22-8	Sodium azide	ACTIVE
	Air Pollutants	
None of the	ingredients is listed.	
· Propositior		
· 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.	
· Carcinogen	ic categories	
	onmental Protection Agency)	
	ingredients is listed.	
· TLV (Thres	hold Limit Value)	
26628-22-8	Sodium azide	A
· NIOSH-Ca (	National Institute for Occupational Safety and Health)	· · · · · · · · · · · · · · · · · · ·
None of the	ingredients is listed.	

## **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of (Contd. on page 9)

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the information contained herein.	
Department issuing SDS: Environment protection department.	
· Contact: -	
Date of preparation / last revision 08/22/2023	
<ul> <li>Abbreviations and acronyms:</li> </ul>	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
VOC: Volatile Organic Compounds (USA, EU)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit REL: Recommended Exposure Limit	