

Safety Data Sheet

acc. to OSHA HCS

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Printing date 01/10/2021

Revision date 01/10/2021

1 Identification

Product identifier

- [·] Trade name: IgG (mouse) Rabbit Monoclonal Antibody Biotinylated
- · Synonym Immunoglobulin G
- · Article number: 32348
- · 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: 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)



· 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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3 Composition/info	ormation on ingredients zation: Mixtures	
Description: Mixture Dangerous compone	of the substances listed below with nonhazardous additions.	
CAS: 56-81-5 RTECS: MA8050000	Glycerol	50.0%
CAS: 9048-46-8 RTECS: MT6446000	Albumin, bovine	1.0%
· Other ingredients		
CAS: 7732-18-5 RTECS: ZC0110000	Water	47.919%
CAS: 7647-14-5 RTECS: VZ4725000	Sodium chloride	0.85%
CAS: 7558-79-4 RTECS: WC4500000	Sodium phosphate, Dibasic	0.106%
CAS: 26628-22-8 RTECS: VY8050000	Sodium azide	0.09%
CAS: 7778-77-0 RTECS: TC6615500	Potassium phosphate, Monobasic	0.03%
	IgG (mouse) Rabbit Monoclonal Antibody - Biotinylated	0.005%

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.

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6 Accidental release measures				
Environmer Dilute with p Do not allow Methods an Absorb with Reference t See Section See Section See Section	ecautions, protective equipment and emergency procedures Not require ntal precautions: lenty of water. to enter sewers/ surface or ground water. d material for containment and cleaning up: liquid-binding material (sand, diatomite, acid binders, universal binders, sawo o other sections 7 for information on safe handling. 8 for information on personal protection equipment. 13 for disposal information. Action Criteria for Chemicals			
· PAC-1:				
56-81-5	Glycerol	45 mg/m³		
26628-22-8	Sodium azide	0.026 mg/m ³		
7778-77-0	Potassium phosphate, Monobasic	9.6 mg/m³		
· PAC-2:	• PAC-2:			
56-81-5	Glycerol	180 mg/m ³		
26628-22-8	Sodium azide	0.29 mg/m ³		
7778-77-0	Potassium phosphate, Monobasic	110 mg/m³		
· PAC-3:				
56-81-5	Glycerol	1,100 mg/m ³		
26628-22-8	Sodium azide	5.3 mg/m ³		
7778-77-0	Potassium phosphate, Monobasic	630 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:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

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At this time, the remaining constituent	(Contd. from page 3) has no known exposure limits.
56-81-5 Glycerol	
PEL Long-term value: 15* 5** mg/m ³ mist; *total dust **respirable fract	ion
TLV TLV withdrawn-insufficient data h	numan occup. exp.
· Additional information: The lists that	were valid during the creation were used as basis.
 Breathing equipment: Not required. Protection of hands: The glove material has to be imperment Due to missing tests no recomment preparation/ the chemical mixture. Selection of the glove material on condegradation Material of gloves The selection of the suitable gloves do quality and varies from manufacture substances, the resistance of the glov be checked prior to the application. Penetration time of glove material 	handling chemicals should be followed. able and resistant to the product/ the substance/ the preparation. dation to the glove material can be given for the product/ the possideration of the penetration times, rates of diffusion and the poss not only depend on the material, but also on further marks of er to manufacturer. As the product is a preparation of several re material can not be calculated in advance and has therefore to be found out by the manufacturer of the protective gloves and has
Lyc protection. Goggies recommend	
9 Physical and chemical proper	
 Information on basic physical and c General Information 	
· General Information · Appearance:	hemical properties
· General Information	
 General Information Appearance: Form: Color: Odor: 	hemical properties Liquid According to product specification Characteristic
 General Information Appearance: Form: Color: Odor: Storage Buffer 	hemical properties Liquid According to product specification Characteristic PBS with 50% glycerol, 1% BSA, and 0.09% sodium azide
 General Information Appearance: Form: Color: Odor: Storage Buffer Odor threshold: 	hemical properties Liquid According to product specification Characteristic PBS with 50% glycerol, 1% BSA, and 0.09% sodium azide Not determined.
 General Information Appearance: Form: Color: Odor: Storage Buffer 	hemical properties Liquid According to product specification Characteristic PBS with 50% glycerol, 1% BSA, and 0.09% sodium azide
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 General Information Appearance: Form: Color: Odor: Storage Buffer Odor threshold: Formulation pH-value: Change in condition Melting point/Melting range: 	Liquid According to product specification Characteristic PBS with 50% glycerol, 1% BSA, and 0.09% sodium azide Not determined. 50 µg of protein A-affinity purified monoclonal antibody Not determined. Undetermined.
 General Information Appearance: Form: Color: Odor: Storage Buffer Odor threshold: Formulation pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Liquid According to product specification Characteristic PBS with 50% glycerol, 1% BSA, and 0.09% sodium azide Not determined. 50 µg of protein A-affinity purified monoclonal antibody Not determined. Undetermined. 100 °C (212 °F)
 General Information Appearance: Form: Color: Odor: Storage Buffer Odor threshold: Formulation pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Liquid According to product specification Characteristic PBS with 50% glycerol, 1% BSA, and 0.09% sodium azide Not determined. 50 µg of protein A-affinity purified monoclonal antibody Not determined. Undetermined. 100 °C (212 °F) 199 °C (390.2 °F)
 General Information Appearance: Form: Color: Odor: Storage Buffer Odor threshold: Formulation pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flammability (solid, gaseous): 	Liquid According to product specification Characteristic PBS with 50% glycerol, 1% BSA, and 0.09% sodium azide Not determined. 50 µg of protein A-affinity purified monoclonal antibody Not determined. Undetermined. 100 °C (212 °F) 199 °C (390.2 °F) Not applicable.
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	(Contd. from page 4)
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
[·] Density at 20 °C (68 °F):	0.99795–1.00205 g/cm³ (8.32789–8.36211 lbs/gal)
· Bulk density:	998–1,002 kg/m³
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Fully miscible.
· Partition coefficient (n-octanol/wa	ter): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	50.0 %
Water:	47.9 %
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Solids content:	2.1 %
· 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 valu	· LD/LC50 values that are relevant for classification:			
ATE (Acute 1	ATE (Acute Toxicity Estimate)			
Oral	LD50	50,000 mg/kg		
56-81-5 Glyc	56-81-5 Glycerol			
Oral	LD50	12,600 mg/kg (rat)		
Irritation of sk	in Irritation	500 mg/24h (rabbit)		
			(Contd. on page 6)	

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Intraperitoneal LD50 4,420 mg/kg (rat) Subcutaneous LD50 100 mg/kg (rat) 9048-46-3 Albumin, bovine Intraperitoneal TDLO 0.2 pph (mouse) 26628-22-8 Sodium azide 0.2 pph (mouse) 26628-22-8 Sodium azide 27 mg/kg (rat) Oral LDLO 27 mg/kg (rat) LDD0 3 ml/kg (wmn) LD50 27 mg/kg (rat) Dermal LD50 27 mg/kg (rat) Dermal LD50 37 mg/m³ (rat) Dermal LC50 37 mg/m³ (rat) Inhalative LC50 37 mg/m³ (rat) Subcutaneous LD50 45,100 µg/kg (rat) Interperitoneal LDLO 30 mg/kg (rat) Intraperitoneal LDLO 30 mg/kg (mouse) • Primary irritant effect: • • on the skin: No irritant effect. • • on the skin: No irritant effect. • • Sensitization: No sensitizing effects korver. • • Additional toxicorgical information: ·	logitation of a second	Level of Const	(Contd. from page 5		
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None of the ingredients is listed			alth Administration)		
	•				

· 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

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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	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.
 Transport in bulk according to Annex MARPOL73/78 and the IBC Code 	II of Not applicable.
· UN "Model Regulation":	not regulated

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

· Section 355 (extremely hazardous substances):

26628-22-8 Sodium azide

Section 313 (Specific toxic chemical listings):

26628-22-8 Sodium azide

• TSCA (Toxic Substances Control Act):

56-81-5 Glycerol

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ACTIVE

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		(Contd. from page
7732-18-5		ACTIVE
9048-46-8	Albumin, bovine	ACTIVE
7647-14-5	Sodium chloride	ACTIVI
7558-79-4	Sodium phosphate, Dibasic	ACTIVI
26628-22-8	Sodium azide	ACTIVI
7778-77-0	Potassium phosphate, Monobasic	ACTIVI
Hazardous	Air Pollutants	
	ingredients is listed.	
Proposition		
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.	
· Carcinoger	ic categories	
· EPA (Envir	onmental Protection Agency)	
None of the	ingredients is listed.	
•	hold Limit Value established by ACGIH)	
26628-22-8	Sodium azide	A
NIOSH-Ca (National Institute for Occupational Safety and He	alth)
Nama of the	ingradiante in listed	

None of the ingredients is listed.

· 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 SDS: Environment protection department.
- Contact: -
- · Date of preparation / last revision 01/10/2021 / -
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists 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

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TLV: Threshold Limit Value PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

* Data compared to the previous version altered.

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