

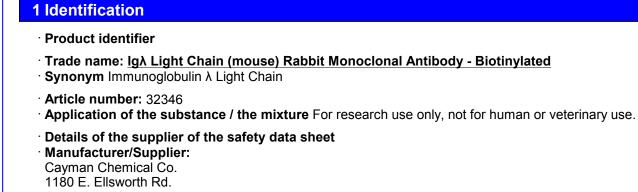
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Safety Data Sheet

acc. to OSHA HCS



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

2 Hazard(s) identification

Outside US/CANADA: 703-741-5970

• **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	
 Chemical characteria Description: Mixture 	zation: Mixtures of the substances listed below with nonhazardous additions.	
· Dangerous compone	ents:	
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%
	Igλ Light Chain (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			
 Personal precautions, protective equipment and emergency procedures Not required. Environmental precautions: Dilute with plenty of water. 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	
26628-22-8	Sodium azide	0.026 mg/m ³	
7778-77-0	Potassium phosphate, Monobasic	9.6 mg/m³	
· PAC-2:			
56-81-5	Glycerol	180 mg/m³	
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	tion
TLV TLV withdrawn-insufficient data I	
	t were valid during the creation were used as basis.
 Breathing equipment: Not required. Protection of hands: The glove material has to be imperme Due to missing tests no recommen preparation/ the chemical mixture. Selection of the glove material on co degradation Material of gloves The selection of the suitable gloves d quality and varies from manufacture substances, the resistance of the glov be checked prior to the application. Penetration time of glove material The exact break through time has to b to be observed. 	Thandling 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 oes not only depend on the material, but also on further marks of er to manufacturer. As the product is a preparation of several we material can not be calculated in advance and has therefore to be found out by the manufacturer of the protective gloves and has
• Eye protection: Goggles recommend	ed during refilling.
9 Physical and chemical proper	rties
 Information on basic physical and o General Information Appearance: Form: Color: Odor: Storage Buffer Odor threshold: Formulation 	chemical properties 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
· pH-value:	Not determined.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. 100 °C (212 °F)
· Flash point:	199 °C (390.2 °F)
Flammability (solid, gaseous):	Not applicable.
 Decomposition temperature: 	Not determined.
Decomposition temperature: Auto igniting:	Not determined. Product is not selfigniting.
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· 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/wat	er): 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 values that are relevant for classification:			
ATE (Acute Toxicity Estimate)			
Oral	LD50	50,000 mg/kg	
56-81-5 Glycerol			
Oral	LD50	12,600 mg/kg (rat)	
Irritation of skin	Irritation	500 mg/24h (rabbit)	
	•		(Contd. on page 6)

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	Irritation	500 mg/24h (rabbit) (Contd. from page
Irritation of eyes	Intraperitoneal LD50	4,420 mg/kg (rat)
	Subcutaneous LD50	100 mg/kg (rat)
9048-46-8 Albu		100 mg/kg (rat)
9040-40-0 Albui	Intraperitoneal TDLO	0.2 pph(mouso)
26628-22-8 Sod	•	0.2 ppn (mouse)
Oral	LDLO	27 mg/kg (rat)
Orai	TDLO	3 ml/kg (wmn)
	LD50	27 mg/kg (rat)
	Subcutaneous LD50	45,100 μg/kg (rat)
Dermal	LD50	50 mg/kg (rat)
Dermai		20 mg/kg (rabbit)
Inhalative	LC50	37 mg/m ³ (rat)
IIIIalalive	Subcutaneous LD50	45,100 μg/kg (rat)
	Interperitoneal LDLO	30 mg/kg (rat)
	Intraperitoneal LD50	28 mg/kg (mouse)
	Subcutaneous LD50	45 mg/kg (rat)
	Data	5,500 mg/kg (mouse)
Primary irritant		
on the skin: No		
on the eye: No i Sensitization: N Additional toxic The product is n preparations: When used and	irritating effect. To sensitizing effects k cological information not subject to classific handled according to	
on the eye: No i Sensitization: N Additional toxic The product is n preparations: When used and according to our Carcinogenic c	irritating effect. To sensitizing effects k cological information not subject to classific handled according to experience and the inf ategories	: cation according to internally approved calculation methods for o specifications, the product does not have any harmful effec formation provided to us.
on the eye: No i Sensitization: N Additional toxic The product is n preparations: When used and according to our Carcinogenic c IARC (Internatio	irritating effect. Io sensitizing effects ki cological information not subject to classific handled according to experience and the inf ategories onal Agency for Rese	: cation according to internally approved calculation methods f o specifications, the product does not have any harmful effec formation provided to us.
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on the eye: No i Sensitization: N Additional toxic The product is r preparations: When used and according to our Carcinogenic c IARC (Internation None of the ingree	irritating effect. No sensitizing effects kit cological information not subject to classific handled according to experience and the inf ategories onal Agency for Rese edients is listed. Toxicology Program)	: cation according to internally approved calculation methods f o specifications, the product does not have any harmful effec formation provided to us.
on the eye: No i Sensitization: N Additional toxic The product is in preparations: When used and according to our Carcinogenic c IARC (Internation None of the ingree NTP (National 1 None of the ingree	irritating effect. No sensitizing effects kit cological information not subject to classific handled according to experience and the inf ategories onal Agency for Rese edients is listed. Toxicology Program)	: cation according to internally approved calculation methods f o specifications, the product does not have any harmful effec formation provided to us. arch on Cancer)

· 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 	c 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 7)
7732-18-5 Water	ACTIVE
9048-46-8 Albumin, bovine	ACTIVE
7647-14-5 Sodium chloride	ACTIVE
7558-79-4 Sodium phosphate, Dibasic	ACTIVE
26628-22-8 Sodium azide	ACTIVE
7778-77-0 Potassium phosphate, Monobasic	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)	
26628-22-8 Sodium azide	A4
NIOSH-Ca (National Institute for Occupational Safety and Health)	
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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