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1 Identification

- · Product identifier
- · Trade name: COX-1 (mouse) Polyclonal Antibody
- · Article number: 160109
- **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



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

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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%
	COX-1 (mouse) 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: 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:

· PAC-1:		
56-81-5	Glycerol	45 mg/m ³
7778-77-0	Potassium phosphate, Monobasic	9.6 mg/m ³
26628-22-8	Sodium azide	0.026 mg/m ³
· 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/m ³
7778-77-0	Potassium phosphate, Monobasic	630 mg/m³
26628-22-8	Sodium azide	5.3 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
- 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.

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Control parameters	require monitoring at the workplace:
56-81-5 Glycerol	require monitoring at the workplace.
PEL Long-term value: 15* 5** mg/m ³	3
mist; *total dust **respirable frac	
TLV TLV withdrawn-insufficient data	· ·
Additional information: The lists that	at were valid during the creation were used as basis.
Breathing equipment: Not required. Protection of hands: The glove material has to be impermed Due to missing tests no recommend preparation/ the chemical mixture. Selection of the glove material on of degradation Material of gloves The selection of the suitable gloves of quality and varies from manufacture	or handling chemicals should be followed.
Penetration time of glove material	
Penetration time of glove material The exact break through time has to to be observed. Eye protection: Goggles recommen Physical and chemical prope	ded during refilling.
Penetration time of glove material The exact break through time has to to be observed. Eye protection: Goggles recommen Physical and chemical prope	erties
Penetration time of glove material The exact break through time has to to be observed. Eye protection: Goggles recomment Physical and chemical proper Information on basic physical and General Information Appearance: Form:	erties chemical properties clear liquid
Penetration time of glove material The exact break through time has to to be observed. Eye protection: Goggles recomment Physical and chemical prope Information on basic physical and General Information Appearance: Form: Color:	clear liquid According to product specification
Penetration time of glove material The exact break through time has to to be observed. Eye protection: Goggles recomment Physical and chemical prope Information on basic physical and General Information Appearance: Form: Color: Odor:	erties chemical properties clear liquid
Penetration time of glove material The exact break through time has to to be observed. Eye protection: Goggles recommen Physical and chemical prope Information on basic physical and General Information Appearance: Form: Color: Odor: Odor threshold:	clear liquid According to product specification Characteristic
Penetration time of glove material The exact break through time has to to be observed. Eye protection: Goggles recommen Physical and chemical prope Information on basic physical and General Information Appearance: Form: Color: Odor: Odor: Odor threshold: pH-value at 20 °C (68 °F):	clear liquid According to product specification Characteristic Not determined.
Penetration time of glove material The exact break through time has to to be observed. Eye protection: Goggles recommen Physical and chemical prope Information on basic physical and General Information Appearance: Form: Color: Odor: Odor: Odor threshold: pH-value at 20 °C (68 °F):	clear liquid According to product specification Characteristic Not determined.
Penetration time of glove material The exact break through time has to to be observed. Eye protection: Goggles recommen Physical and chemical prope Information on basic physical and General Information Appearance: Form: Color: Odor: Odor: Odor threshold: pH-value at 20 °C (68 °F): Change in condition	aded during refilling.
Penetration time of glove material The exact break through time has to to be observed. Eye protection: Goggles recommen Physical and chemical prope Information on basic physical and General Information Appearance: Form: Color: Odor: Odor: Odor threshold: pH-value at 20 °C (68 °F): Change in condition Melting point/Melting range: Boiling point/Boiling range:	chemical properties clear liquid According to product specification Characteristic Not determined. 7.2 Undetermined.
Penetration time of glove material The exact break through time has to to be observed. Eye protection: Goggles recommen Physical and chemical prope Information on basic physical and General Information Appearance: Form: Color: Odor: Odor: Odor: Odor threshold: pH-value at 20 °C (68 °F): Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point:	aded during refilling. erties chemical properties clear liquid According to product specification Characteristic Not determined. 7.2 Undetermined. 100 °C (212 °F)
Penetration time of glove material The exact break through time has to to be observed. Eye protection: Goggles recommen Physical and chemical prope Information on basic physical and General Information Appearance: Form: Color: Odor: Odor: Odor threshold: pH-value at 20 °C (68 °F): Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flammability (solid, gaseous):	ded during refilling. erties chemical properties clear liquid According to product specification Characteristic Not determined. 7.2 Undetermined. 100 °C (212 °F) 199 °C (390.2 °F) Not applicable.
Penetration time of glove material The exact break through time has to to be observed. Eye protection: Goggles recommen Physical and chemical prope Information on basic physical and General Information Appearance: Form: Color: Odor: Odor: Odor threshold: pH-value at 20 °C (68 °F): Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flammability (solid, gaseous): Auto igniting:	ded during refilling. erties chemical properties clear liquid According to product specification Characteristic Not determined. 7.2 Undetermined. 100 °C (212 °F) 199 °C (390.2 °F) Not applicable. 400 °C (752 °F)
Penetration time of glove material The exact break through time has to to be observed. Eye protection: Goggles recommen Physical and chemical prope Information on basic physical and General Information Appearance: Form: Color: Odor: Odor: Odor threshold: pH-value at 20 °C (68 °F): Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flammability (solid, gaseous):	ded during refilling. erties chemical properties clear liquid According to product specification Characteristic Not determined. 7.2 Undetermined. 100 °C (212 °F) 199 °C (390.2 °F) Not applicable.

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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)
Vapor pressure at 50 °C (122 °F):	~0 hPa
Density at 20 °C (68 °F):	1.01809–1.02215 g/cm³ (8.49596–8.52984 lbs/gal)
Bulk density:	995–1,013 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/wate	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	50.0 %
Water:	48.8 %
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Solids content:	>1.0 %
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

LD50

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

56-81-5 Glycerol

Oral

12,600 mg/kg (rat)

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	Irritation of skin	Irritation	500 mg/24h (rabbit) mild
	1		
	Irritation of eyes	Irritation	500 mg/24h (rabbit) mild
			····
		Intraperitoneal LD50	
		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 ca 	ategories	
Γ	· IARC (Internatio	onal Agency for Rese	earch on Cancer)
	None of the ingredients is listed.		
Γ	· NTP (National Toxicology Program)		
	None of the ingre	edients is listed.	
Γ	· OSHA-Ca (Occu	pational Safety & He	ealth Administration)
	None of the ingre	edients 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.

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• Recommended cleansing agent: Water, if necessary with cleansing agents.

Transport information	
· UN-Number	
· DOT, IMDG, IATA	UN1760
· UN proper shipping name	
DOT	Corrosive liquids, n.o.s. (Glycerol)
· IMDG	CORROSIVE LIQUID, N.O.S. (Glycerol)
	Corrosive liquid, n.o.s. (Glycerol)
· Transport hazard class(es)	
DOT	
CORROSIVE	
8	
· Class	8 Corrosive substances
· Label	8
· IMDG, IATA	
8	
· Class	8 Corrosive substances
· Label	8
· Packing group	
· DOT, IMDG, IATA	III
· Environmental hazards:	Not applicable.
· Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code):	
· EMS Number:	F-A,S-B
 Stowage Category Stowage Code 	A SW2 Clear of living quarters.
 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.
· Transport/Additional information:	
DOT	
· Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· IMDG	51
 Limited quantities (LQ) Excepted quantities (EQ) 	5L Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
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· IATA · 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 Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
· UN "Model Regulation":	UN 1760 CORROSIVE LIQUID, N.O.S. (GLYCEROL), 8, III

15 Regulatory information

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

· Sara

26628-22-8 S		
	Specific toxic chemical listings):	
26628-22-8	odium azide	
· TSCA (Toxic	Substances Control Act):	
56-81-5	lycerol	ACTIVI
7732-18-5 V	Vater	ACTIVI
7647-14-5 S	Sodium chloride	ACTIVI
	odium phosphate, Dibasic	ACTIVI
-	Potassium chloride	ACTIVI
	Potassium phosphate, Monobasic	ACTIVI
26628-22-8 S	odium azide	ACTIVI
· Hazardous A	ir Pollutants	
None of the in	gredients is listed.	
· Proposition 6	5	
· Chemicals kr	nown to cause cancer:	
None of the in	gredients is listed.	
· Chemicals kr	nown to cause reproductive toxicity for females:	
None of the in	gredients is listed.	
· Chemicals kr	nown to cause reproductive toxicity for males:	
None of the in	gredients is listed.	
· Chemicals kr	nown to cause developmental toxicity:	
None of the in	gredients is listed.	
	categories	
 Carcinogenic 	mental Protection Agency)	
-	intental Protection Agency)	
· EPA (Enviror	gredients is listed.	
• EPA (Enviror None of the in		

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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

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 the information contained herein.

- · Department issuing SDS: Environment protection department.
- Contact: -
- · Date of preparation / last revision 07/17/2023

 Abbreviations and acronyms: 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