

Printing date 07/17/2023

Revision date 07/17/2023

Page 1/10

### **1** Identification

- · Product identifier
- · Trade name: COX-2 (mouse) Polyclonal Antibody (aa 570-598)
- Article number: 160106
- **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

(Contd. on page 2)

US

Printing date 07/17/2023

Revision date 07/17/2023

(Contd. from page 1)

### Trade name: COX-2 (mouse) Polyclonal Antibody (aa 570-598)

- · 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.

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

### **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.

(Contd. on page 3)

US

Printing date 07/17/2023

Revision date 07/17/2023

(Contd. from page 2)

#### Trade name: COX-2 (mouse) Polyclonal Antibody (aa 570-598)

### · 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:		
56-81-5	5 Glycerol 45 mg/r	
7778-77-0	Potassium phosphate, Monobasic	9.6 mg/m <sup>3</sup>
26628-22-8	3 Sodium azide 0.026 mg/m	
PAC-2:		
56-81-5	-5 Glycerol 180 n	
7778-77-0	Potassium phosphate, Monobasic	110 mg/m <sup>3</sup>
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 Keep container tightly closed.

Store in accordance with information listed on the product insert.

- 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.

(Contd. on page 4)

Printing date 07/17/2023

Revision date 07/17/2023

### Trade name: COX-2 (mouse) Polyclonal Antibody (aa 570-598)

(Contd. from page 3)

· Cont	rol parameters	
· Com	ponents with limit values	s that require monitoring at the workplace:
	1-5 Glycerol	
	Long-term value: 15* 5** r mist; *total dust **respirab	
TLV	TLV withdrawn-insufficien	it data human occup. exp.
2662	8-22-8 Sodium azide	
	Ceiling limit value: 0.3** m *as HN3; **as NaN3; Skin	
TLV	Ceiling limit value: 0.29** *as HN3 vapor **as NaN3	
· Addit	tional information: The list	sts that were valid during the creation were used as basis.
The g Due of prepa Selec degra • <b>Mate</b> The s qualiti subst be ch • <b>Pene</b> The e to be • <b>Eye g</b>	to missing tests no reco aration/ the chemical mixtu ction of the glove materia adation <b>rial of gloves</b> selection of the suitable glo ty and varies from manu tances, the resistance of the necked prior to the applicat <b>etration time of glove mat</b> exact break through time he observed. protection: Goggles recor	al on consideration of the penetration times, rates of diffusion and th oves does not only depend on the material, but also on further marks of ifacturer to manufacturer. As the product is a preparation of severa he glove material can not be calculated in advance and has therefore t tion. <b>terial</b> has to be found out by the manufacturer of the protective gloves and has mmended during refilling.
	sical and chemical p	
	mation on basic physica eral Information	I and chemical properties
	earance:	
For	rm:	Liquid
0.0	1 a m	According to product specification
Col		
· Odor		Characteristic 72 kDa

• **Coor threshold:** Not determined. • **Formulation** 500 µl peptide affinity-purified polyclonal antibody

Undetermined.

7.2

· pH-value at 20 °C (68 °F):

 Change in condition Melting point/Melting range:

(Contd. on page 5)

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Printing date 07/17/2023

Revision date 07/17/2023

### Trade name: COX-2 (mouse) Polyclonal Antibody (aa 570-598)

	(Contd. from page 4)
Boiling point/Boiling range:	100 °C (212 °F)
· Flash point:	199 °C (390.2 °F)
· Flammability (solid, gaseous):	Not applicable.
· 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.
<ul> <li>Explosion limits: Lower: Upper:</li> </ul>	Not determined. Not determined.
<ul> <li>Vapor pressure at 20 °C (68 °F):</li> <li>Vapor pressure at 50 °C (122 °F):</li> </ul>	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 determined. Not determined.
<ul> <li>Solubility in / Miscibility with Water:</li> </ul>	Fully miscible.
· Partition coefficient (n-octanol/water)	: Not determined.
<ul> <li>Viscosity:</li> <li>Dynamic:</li> <li>Kinematic:</li> </ul>	Not determined. Not determined.
<ul> <li>Solvent content:</li> <li>Organic solvents:</li> <li>Water:</li> <li>VOC content:</li> </ul>	50.0 % 48.8 % 0.00 % 0.0 g/l / 0.00 lb/gal
Solids content:	1.5 %
· 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: strong oxidizing agents
- Hazardous decomposition products: carbon dioxide, carbon monoxide, hydrogen chloride gas, nitrogen oxides,sodium oxides

(Contd. on page 6)

Printing date 07/17/2023

## Revision date 07/17/2023

## Trade name: COX-2 (mouse) Polyclonal Antibody (aa 570-598)

(Contd. from page 5)

• Acute toxicity:	that are relevant for	classification:
ATE (Acute Tox		
Oral	LD50	13,500 mg/kg
Dermal	LD50	10,000 mg/kg
56-81-5 Glycero	<u></u>	, , , , , , , , , , , , , , , , , , , ,
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)
26628-22-8 Sod	ium azide	1
Oral	LDLO	27 mg/kg (rat)
	TDLO	3 ml/kg (wmn)
	LD50	27 mg/kg (rat)
	Subcutaneous LD50	45,100 μg/kg (rat)
Dermal	LD50	50 mg/kg (rat)
		20 mg/kg (rabbit)
Inhalative	LC50	37 mg/m³ (rat)
	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)
• Additional toxic The product is r preparations: When used and	irritant effect. irritating effect. Io sensitizing effects k cological information not subject to classified handled according to experience and the in	
•	onal Agency for Rese	arch on Cancer)
None of the ingre	<b>u</b>	
	oxicology Program)	

Printing date 07/17/2023

Revision date 07/17/2023

Trade name: COX-2 (mouse) Polyclonal Antibody (aa 570-598)

(Contd. from page 6)

### · 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	UN1760
UN proper shipping name	
DOT	Corrosive liquids, n.o.s. (Glycerol)
IMDG	CORROSIVE LIQUID, N.O.S. (Glycerol)
ΙΑΤΑ	Corrosive liquid, n.o.s. (Glycerol)
Transport hazard class(es)	
DOT	
CORROSIVE 8	
· Class	8 Corrosive substances

Printing date 07/17/2023

Revision date 07/17/2023

## Trade name: COX-2 (mouse) Polyclonal Antibody (aa 570-598)

	(Contd. from page
Label	8
· IMDG, IATA	
Class Label	8 Corrosive substances 8
· Packing group · DOT, IMDG, IATA	111
· Environmental hazards:	Not applicable.
<ul> <li>Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> <li>Segregation groups</li> <li>Stowage Category</li> <li>Stowage Code</li> </ul>	Warning: Corrosive substances 80 F-A,S-B (SGG17) Azides A SW2 Clear of living quarters.
<ul> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>	Not applicable.
<ul> <li>Transport/Additional information:</li> <li>DOT</li> <li>Quantity limitations</li> </ul>	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· IMDG · 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
· 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 Minim Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled a 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

### · Section 355 (extremely hazardous substances):

26628-22-8 Sodium azide

(Contd. on page 9)

<sup>-</sup>US

Printing date 07/17/2023

Revision date 07/17/2023

#### Trade name: COX-2 (mouse) Polyclonal Antibody (aa 570-598)

ction 313 (Specific toxic chemical listings):         628-22-8       Sodium azide         628-22-8       Sodium azide         cCA (Toxic Substances Control Act):       56-81-5         56-81-5       Glycerol         732-18-5       Water         647-14-5       Sodium chloride         447-40-7       Potassium chloride         778-77-0       Potassium phosphate, Monobasic         628-22-8       Sodium azide         558-79-4       Sodium phosphate, Dibasic         zardous Air Pollutants	ontd. from pag
GCA (Toxic Substances Control Act):         56-81-5       Glycerol         732-18-5       Water         647-14-5       Sodium chloride         447-40-7       Potassium chloride         778-77-0       Potassium phosphate, Monobasic         628-22-8       Sodium azide         558-79-4       Sodium phosphate, Dibasic         zardous Air Pollutants	
56-81-5       Glycerol         732-18-5       Water         647-14-5       Sodium chloride         447-40-7       Potassium chloride         778-77-0       Potassium phosphate, Monobasic         628-22-8       Sodium azide         558-79-4       Sodium phosphate, Dibasic         zardous Air Pollutants	
732-18-5       Water         647-14-5       Sodium chloride         647-14-5       Sodium chloride         778-77-0       Potassium phosphate, Monobasic         628-22-8       Sodium phosphate, Dibasic <b>zardous Air Pollutants</b> Sodium phosphate, Dibasic         ne of the ingredients is listed.       Soposition 65         semicals known to cause cancer:       Sodium environmental environmental toxicity for females:         ne of the ingredients is listed.       Some environmental Protection Agency)         ne of the ingredients is listed.       Some environmental Protection Agency)	
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rcinogenic categories PA (Environmental Protection Agency) one of the ingredients is listed.	
PA (Environmental Protection Agency) one of the ingredients is listed.	
ne of the ingredients is listed.	
V (Threshold Limit Value)	
628-22-8 Sodium azide	A
OSH-Ca (National Institute for Occupational Safety and Health)	
ne 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 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

Printing date 07/17/2023

Revision date 07/17/2023

### Trade name: COX-2 (mouse) Polyclonal Antibody (aa 570-598)

(Contd. from page 9) EINECS: European List of Notified 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 concentration, 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 * <b>Data compared to the previous version altered.</b>
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