

### Safety Data Sheet

acc. to OSHA HCS

Date of issue: 03/12/2025

Revision date 03/12/2025

Page 1/9

### **1** Identification

#### Product identifier

- Trade name: Goat Anti-COX-2 (human) Affinity-Purified Polyclonal Antibody
- · Synonym Cyclooxygenase-2
- Other means of identification

### Article number: 100034 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

- $\cdot$  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
- · Information pertaining to particular dangers for man and environment:
- Classification system:
- NFPA ratings (scale 0 4)

Health = 0 Fire = 1 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



(Contd. on page 2)

Date of issue: 03/12/2025

#### Revision date 03/12/2025

(Contd. from page 1)

### Trade name: Goat Anti-COX-2 (human) Affinity-Purified Polyclonal Antibody

· Other hazards

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- Classification according to (d)(1)(ii) of § 1910.1200

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

### **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%
· Other ingredients		
CAS: 7732-18-5 RTECS: ZC0110000	Water	48.8%
CAS: 7647-14-5 RTECS: VZ4725000	Sodium chloride	0.8%
	Goat Anti-COX-2 (human) Affinity-Purified 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.
- 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.

(Contd. on page 3)

Date of issue: 03/12/2025

Revision date 03/12/2025

### Trade name: Goat Anti-COX-2 (human) Affinity-Purified Polyclonal Antibody

(Contd. from page 2)

### **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.

### 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).

Protective Action Criteria 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 0.020		
· 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		
· PAC-3:			
56-81-5	Glycerol	1,100 mg/m³	
7778-77-0	Potassium phosphate, Monobasic	630 mg/m³	
26628-22-8	Sodium azide	8.8 mg/m3	
Deference	o other sections	· · · · · · · · · · · · · · · · · · ·	

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.

### 7 Handling and storage

· 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.

(Contd. on page 4)

Date of issue: 03/12/2025

### Trade name: Goat Anti-COX-2 (human) Affinity-Purified Polyclonal Antibody

(Contd. from page 3)

Exposure controls/personal pr	
Control parameters	
Components with limit values that re	equire monitoring at the workplace:
56-81-5 Glycerol	
PEL Long-term value: 15* 5** mg/m <sup>3</sup>	
mist; *total dust **respirable fracti	
TLV TLV withdrawn-insufficient data h	uman occup. exp.
Additional information: The lists that	were valid during the creation were used as basis.
Exposure controls	
Appropriate engineering controls No	o further data; see section 7.
Personal protective equipment:	
General protective and hygienic mea	
The usual precautionary measures for	handling chemicals should be followed.
Breathing equipment: Not required. Protection of hands:	
	ble and resistant to the product/ the substance/ the preparation
	lation to the glove material can be given for the product/ th
preparation/ the chemical mixture.	5
	nsideration of the penetration times, rates of diffusion and th
degradation	
Material of gloves	an und auto demand au the material but also an foutboursedur
	es not only depend on the material, but also on further marks (
augusty and varian from manufacture	r to monufacturar. As the product is a proparation of acvar
quality and varies from manufacture substances, the resistance of the dove	r to manufacturer. As the product is a preparation of sever
substances, the resistance of the glove	r to manufacturer. As the product is a preparation of sever e material can not be calculated in advance and has therefore t
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Date of issue: 03/12/2025

Revision date 03/12/2025

### Trade name: Goat Anti-COX-2 (human) Affinity-Purified Polyclonal Antibody

	(Contd. from page 4)
· Auto igniting:	400 °C (752 °F)
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.
pH-value at 20 °C (68 °F):	7.2
Viscosity:	
Kinematic:	Not determined.
· SOLUBILITY	
<sup>.</sup> Dynamic:	Not determined.
Solubility in / Miscibility with	
· Water:	Fully miscible.
<ul> <li>Partition coefficient (n-octanol/water):</li> </ul>	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:	Not determined.
Relative density	Not determined.
· Vapor density	Not determined.
<ul> <li>Particle characteristics</li> </ul>	Not applicable.
· Other information	
· Appearance:	
· Form:	clear liquid
Important information on protection of heal	lth
and environment, and on safety.	
<ul> <li>Ignition temperature:</li> </ul>	Product is not selfigniting.
<ul> <li>Danger of explosion:</li> </ul>	Product does not present an explosion hazard.
· Solvent content:	
· Organic solvents:	50.0 %
· Water:	48.8 %
· VOC content:	0.00 %
<b>•</b> •• • • •	0.0 g/l / 0.00 lb/gal
Solids content:	>1.0 %
Change in condition	
· Evaporation rate	Not determined.

### **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.

(Contd. on page 6)

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Date of issue: 03/12/2025

### Revision date 03/12/2025

### Trade name: Goat Anti-COX-2 (human) Affinity-Purified Polyclonal Antibody

(Contd. from page 5)

Information on Acute toxicity:	toxicological effects	
-	s that are relevant for	r classification:
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)
according to our Interactive effect Carcinogenic ca	experience and the in cts No interactive effe ategories onal Agency for Rese	o specifications, the product does not have any harmful effect formation provided to us. cts between components are known. earch on Cancer)
NTP (National T	oxicology Program)	
None of the ingre	edients is listed.	
OSHA-Ca (Occu	upational Safety & He	ealth Administration)
None of the ingre	edients is listed.	
	rces for toxicologica I sources for toxicolog	I information ical information where used.
Ecological in	formation	
	<b>/:</b> No further relevant i	nformation available
Persistence and Bioaccumulativ Mobility in soil Results of PBT PBT: Not applica vPvB: Not applica Other adverse of Additional ecolo General notes:	d degradability No fu ve potential No furthe No further relevant inf and vPvB assessme able. cable. effects ogical information:	rther relevant information available. r relevant information available. ormation available.

Date of issue: 03/12/2025

Revision date 03/12/2025

### Trade name: Goat Anti-COX-2 (human) Affinity-Purified Polyclonal Antibody

(Contd. from page 6)

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### **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.
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	<b>k II of</b> Not applicable.
Special precautions for user	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.
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· Section 355	i (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	ACTIVE
7732-18-5	Water	ACTIVE
7647-14-5	Sodium chloride	ACTIVE
7558-79-4	Sodium phosphate, Dibasic	ACTIVE
7447-40-7	Potassium chloride	ACTIVE
	(Cont	d. on page 8)

Date of issue: 03/12/2025

#### Trade name: Goat Anti-COX-2 (human) Affinity-Purified Polyclonal Antibody

(Contd.	from page 7)
7778-77-0 Potassium phosphate, Monobasic	ACTIVE
26628-22-8 Sodium azide	ACTIVE
· Hazardous Air Pollutants	
None of the ingredients is listed.	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
<ul> <li>Chemicals known to cause reproductive toxicity for females:</li> </ul>	
None of the ingredients is listed.	
<ul> <li>Chemicals known to cause reproductive toxicity for males:</li> </ul>	
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)	
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**

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 previous version 07/31/2023
- · Date of preparation 03/12/2025
- · 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**

US

Date of issue: 03/12/2025

Revision date 03/12/2025

### Trade name: Goat Anti-COX-2 (human) Affinity-Purified Polyclonal Antibody

TLV: Threshold Limit Value PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit \* Data compared to the previous version altered. (Contd. from page 8)

US