

Printing date 08/08/2023

Revision date 08/08/2023

Page 1/9

1 Identification

- · Product identifier
- · Trade name: STING M284 variant Polyclonal Antibody
- · Synonym

Endoplasmic Reticulum Interferon Stimulator, ERIS, Mediator of IRF3 Activation, MITA, MPYS, Stimulator of Interferon Genes, TMEM173, Transmembrane Protein 173

- · Article number: 24791
- **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

• **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)



(Contd. on page 2)

Printing date 08/08/2023

Revision date 08/08/2023

(Contd. from page 1)

Trade name: STING M284 variant Polyclonal Antibody

- · 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%
	STING M284 variant 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.

(Contd. on page 3)

US

Printing date 08/08/2023

Revision date 08/08/2023

(Contd. from page 2)

Trade name: STING M284 variant Polyclonal Antibody

· 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/m³
26628-22-8	Sodium azide	0.026 mg/m³
· 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/m ³

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.

(Contd. on page 4)

Printing date 08/08/2023

Revision date 08/08/2023

Trade name: STING M284 variant Polyclonal Antibody

(Contd. from page 3)

US

Components with limit values that	require monitoring of 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	human occup. exp.
	at were valid during the creation were used as basis.
· Exposure controls	
· Personal protective equipment:	
General protective and hygienic m	
 Breathing equipment: Not required. 	or handling chemicals should be followed.
• Protection of hands:	
The glove material has to be imperme	eable and resistant to the product/ the substance/ the preparation.
preparation/ the chemical mixture.	ndation to the glove material can be given for the product/ th
Selection of the glove material on o	consideration of the penetration times, rates of diffusion and th
degradation	
Material of gloves The selection of the suitable gloves	does not only depend on the material, but also on further marks o
	rer to manufacturer. As the product is a preparation of severa
	by the material can not be calculated in advance and has therefore t
be checked prior to the application.	
renetration time of glove material	
• Penetration time of glove material The exact break through time has to	be found out by the manufacturer of the protective gloves and ha
The exact break through time has to to be observed.	
The exact break through time has to	be found out by the manufacturer of the protective gloves and ha ded during refilling.
The exact break through time has to to be observed.	
The exact break through time has to to be observed. • Eye protection: Goggles recommen	ded during refilling.
The exact break through time has to to be observed.	ded during refilling.
The exact break through time has to to be observed. • Eye protection: Goggles recommen 9 Physical and chemical prope • Information on basic physical and	ded during refilling.
The exact break through time has to to be observed. • Eye protection: Goggles recommen 9 Physical and chemical prope • Information on basic physical and • General Information	ded during refilling.
The exact break through time has to to be observed. • Eye protection: Goggles recommen 9 Physical and chemical prope • Information on basic physical and • General Information • Appearance:	erties chemical properties
The exact break through time has to to be observed. • Eye protection: Goggles recommen 9 Physical and chemical prope • Information on basic physical and • General Information • Appearance: Form:	clear liquid
The exact break through time has to to be observed. • Eye protection: Goggles recommen 9 Physical and chemical prope • Information on basic physical and • General Information • Appearance:	clear liquid According to product specification
The exact break through time has to to be observed. • Eye protection: Goggles recommen 9 Physical and chemical prope • Information on basic physical and • General Information • Appearance: Form: Color:	clear liquid According to product specification Characteristic
The exact break through time has to to be observed. • Eye protection: Goggles recommen 9 Physical and chemical prope • Information on basic physical and • General Information • Appearance: Form: Color: • Odor: • Storage Buffer	clear liquid According to product specification Characteristic PBS, pH 7.2, containing 50% glycerol and 0.02% sodium azide
The exact break through time has to to be observed. • Eye protection: Goggles recommen 9 Physical and chemical prope • Information on basic physical and • General Information • Appearance: Form: Color: • Odor: • Storage Buffer • Odor threshold:	clear liquid According to product specification Characteristic PBS, pH 7.2, containing 50% glycerol and 0.02% sodium azide Not determined.
The exact break through time has to to be observed. • Eye protection: Goggles recommen 9 Physical and chemical prope • Information on basic physical and • General Information • Appearance: Form: Color: • Odor: • Storage Buffer	clear liquid According to product specification Characteristic PBS, pH 7.2, containing 50% glycerol and 0.02% sodiun azide
The exact break through time has to to be observed. • Eye protection: Goggles recommen 9 Physical and chemical prope • Information on basic physical and • General Information • Appearance: Form: Color: • Odor: • Storage Buffer • Odor threshold:	clear liquid According to product specification Characteristic PBS, pH 7.2, containing 50% glycerol and 0.02% sodium azide Not determined.
The exact break through time has to to be observed. • Eye protection: Goggles recommen 9 Physical and chemical prope • Information on basic physical and • General Information • Appearance: Form: Color: • Odor: • Storage Buffer • Odor threshold: • Formulation • pH-value at 20 °C (68 °F): • Change in condition	clear liquid According to product specification Characteristic PBS, pH 7.2, containing 50% glycerol and 0.02% sodium azide Not determined. 500 μl of peptide affinity-purified polyclonal antibody
The exact break through time has to to be observed. • Eye protection: Goggles recommen 9 Physical and chemical prope • Information on basic physical and • General Information • Appearance: Form: Color: • Odor: • Odor: • Storage Buffer • Odor threshold: • Formulation • pH-value at 20 °C (68 °F): • Change in condition Melting point/Melting range:	ded during refilling. erties chemical properties clear liquid According to product specification Characteristic PBS, pH 7.2, containing 50% glycerol and 0.02% sodium azide Not determined. 500 µl of peptide affinity-purified polyclonal antibody 7.2 Undetermined.
The exact break through time has to to be observed. • Eye protection: Goggles recommen 9 Physical and chemical prope • Information on basic physical and • General Information • Appearance: Form: Color: • Odor: • Storage Buffer • Odor threshold: • Formulation • pH-value at 20 °C (68 °F): • Change in condition	ded during refilling. erties chemical properties clear liquid According to product specification Characteristic PBS, pH 7.2, containing 50% glycerol and 0.02% sodiun azide Not determined. 500 µl of peptide affinity-purified polyclonal antibody 7.2
The exact break through time has to to be observed. • Eye protection: Goggles recommen 9 Physical and chemical prope • Information on basic physical and • General Information • Appearance: Form: Color: • Odor: • Odor: • Storage Buffer • Odor threshold: • Formulation • pH-value at 20 °C (68 °F): • Change in condition Melting point/Melting range:	ded during refilling. erties chemical properties clear liquid According to product specification Characteristic PBS, pH 7.2, containing 50% glycerol and 0.02% sodium azide Not determined. 500 µl of peptide affinity-purified polyclonal antibody 7.2 Undetermined.
The exact break through time has to to be observed. • Eye protection: Goggles recommen 9 Physical and chemical prope • Information on basic physical and • General Information • Appearance: Form: Color: • Odor: • Odor: • Storage Buffer • Odor threshold: • Formulation • pH-value at 20 °C (68 °F): • Change in condition Melting point/Melting range: Boiling point/Boiling range:	ded during refilling. erties chemical properties clear liquid According to product specification Characteristic PBS, pH 7.2, containing 50% glycerol and 0.02% sodium azide Not determined. 500 µl of peptide affinity-purified polyclonal antibody 7.2 Undetermined. 100 °C (212 °F)
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: • Storage Buffer • Odor threshold: • Formulation • pH-value at 20 °C (68 °F): • Change in condition Melting point/Melting range: Boiling point/Boiling range: • Flash point:	ded during refilling. erties chemical properties clear liquid According to product specification Characteristic PBS, pH 7.2, containing 50% glycerol and 0.02% sodiur azide Not determined. 500 μl of peptide affinity-purified polyclonal antibody 7.2 Undetermined. 100 °C (212 °F) 199 °C (390.2 °F)

Printing date 08/08/2023

Revision date 08/08/2023

Trade name: STING M284 variant Polyclonal Antibody

	(Contd. from page 4
· Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
· 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:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
 Solubility in / Miscibility with 	
Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	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:	>1.2 %
· 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.

(Contd. on page 6)

115

Printing date 08/08/2023

Revision date 08/08/2023

Trade name: STING M284 variant Polyclonal Antibody

(Contd. from page 5)

	LD/LC50 values that are relevant for 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)	
• Additional toxic The product is r preparations: When used and	irritant effect. rritating effect. Io sensitizing effects k cological information not subject to classifient handled according to		
on the skin: No on the eye: No Sensitization: N Additional toxic The product is r preparations: When used and according to our Carcinogenic c	irritant effect. rritating effect. Io sensitizing effects k cological information not subject to classifie handled according to experience and the in ategories	n: cation according to internally approved calculation methods f o specifications, the product does not have any harmful effect formation provided to us.	
on the skin: No on the eye: No Sensitization: N Additional toxic The product is r preparations: When used and according to our Carcinogenic c	irritant effect. rritating effect. lo sensitizing effects k cological information not subject to classifie handled according to experience and the in ategories onal Agency for Rese	n: cation according to internally approved calculation methods f o specifications, the product does not have any harmful effect formation provided to us.	
on the skin: No on the eye: No Sensitization: N Additional toxic The product is r preparations: When used and according to our Carcinogenic c IARC (Internatio None of the ingre	irritant effect. rritating effect. lo sensitizing effects k cological information not subject to classifie handled according to experience and the in ategories onal Agency for Rese	n: cation according to internally approved calculation methods f o specifications, the product does not have any harmful effect formation provided to us. earch on Cancer)	
on the skin: No on the eye: No Sensitization: N Additional toxic The product is r preparations: When used and according to our Carcinogenic c IARC (Internatio None of the ingre	irritant effect. rritating effect. lo sensitizing effects k cological information not subject to classified handled according to experience and the in ategories onal Agency for Rese edients is listed. coxicology Program)	n: cation according to internally approved calculation methods f o specifications, the product does not have any harmful effect formation provided to us. earch on Cancer)	
• on the skin: No • on the eye: No • Sensitization: No • Additional toxic The product is r preparations: When used and according to our • Carcinogenic ca • IARC (Internation None of the ingreent • NTP (National T None of the ingreent	irritant effect. rritating effect. Io sensitizing effects k cological information not subject to classifie handled according to experience and the in ategories onal Agency for Rese edients is listed. Toxicology Program) edients is listed.	n: cation according to internally approved calculation methods f o specifications, the product does not have any harmful effect formation provided to us. earch on Cancer)	

- 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.

(Contd. on page 7)

US

Printing date 08/08/2023

Revision date 08/08/2023

Trade name: STING M284 variant Polyclonal Antibody

· 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 IMDG IATA	Corrosive liquids, n.o.s. (Glycerol) CORROSIVE LIQUID, N.O.S. (Glycerol) Corrosive liquid, n.o.s. (Glycerol)
Transport hazard class(es)	
DOT	
Class	8 Corrosive substances
Label	8
IMDG, IATA	
Class	8 Corrosive substances
Label	8
Packing group DOT, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user Hazard identification number (Kemler co EMS Number: Stowage Category Stowage Code	Warning: Corrosive substances ode): 80 F-A,S-B A SW2 Clear of living quarters.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	of Not applicable.

evision date 00/00/2020

(Contd. from page 6)

Printing date 08/08/2023

Revision date 08/08/2023

Trade name: STING M284 variant Polyclonal Antibody

	(Contd. from page
· Transport/Additional information:	
· DOT	
· Quantity limitations	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 Minimi 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

20020-22-0	Sodium azide	
Section 313	3 (Specific toxic chemical listings):	
26628-22-8	Sodium azide	
TSCA (Toxi	c Substances Control Act):	
56-81-5	Glycerol	ACTIV
7732-18-5	Water	ACTIV
7647-14-5	Sodium chloride	ACTIV
7558-79-4	Sodium phosphate, Dibasic	ACTIV
7447-40-7	Potassium chloride	ACTIV
7778-77-0	Potassium phosphate, Monobasic	ACTIV
26628-22-8	Sodium azide	ACTIV
Hazardous	Air Pollutants	
None of the	ingredients is listed.	
Proposition	n 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.	

Printing date 08/08/2023

Revision date 08/08/2023

Trade name: STING M284 variant Polyclonal Antibody

	(Contd. from page 8)
• 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)	
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 preparation / last revision 08/08/2023

· 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**

us -