

Printing date 10/11/2021

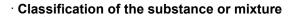
Revision date 10/11/2021

Page 1/11

1 Identification

- Product identifier
- Trade name: Prostaglandin D2-MOX AChE Tracer
- · Article number: 412010
- Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use. It is the responsibility of the purchaser to determine suitability for other applications.
- · 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





GHS08 Health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.

GHS07

Acute Tox, 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H335 May cause respiratory irritation.

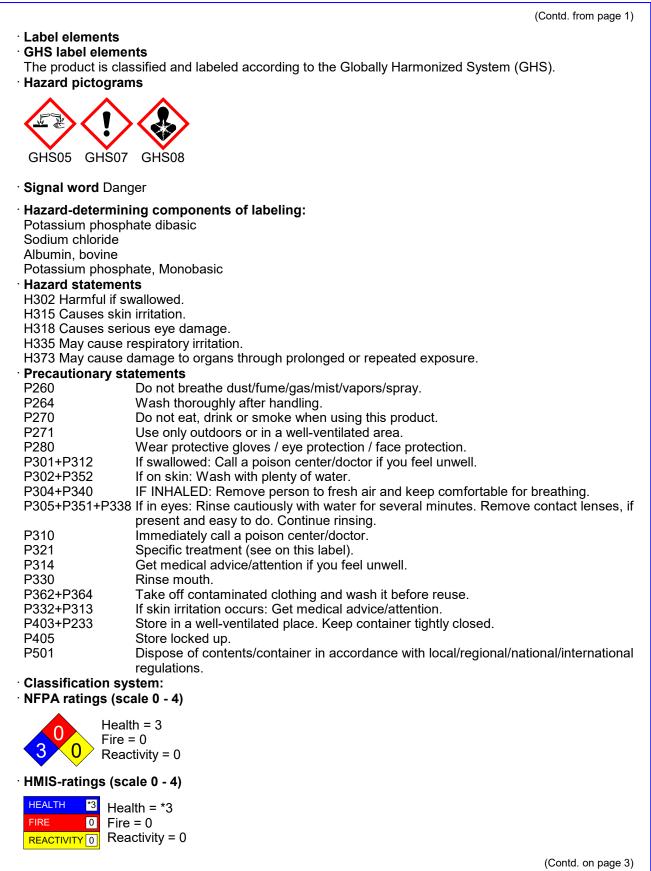
(Contd. on page 2)

US

Printing date 10/11/2021

Revision date 10/11/2021

Trade name: Prostaglandin D2-MOX AChE Tracer



US

Printing date 10/11/2021

Revision date 10/11/2021

(Contd. from page 2)

Trade name: Prostaglandin D2-MOX AChE Tracer

- · 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 components:			
CAS: 7647-14-5 RTECS: VZ4725000	Sodium chloride	47.27%	
CAS: 7758-11-4 RTECS: TC5580000	Potassium phosphate dibasic	25.97%	
CAS: 9048-46-8 RTECS: AY9296000	Albumin, bovine	19.54%	
CAS: 7778-77-0 RTECS: TC6615500	Potassium phosphate, Monobasic	6.29%	
CAS: 26628-22-8 RTECS: VY8050000	Sodium azide	0.2%	
· Other ingredients			
194491-31-1 EDTA,	tetrasodium salt hydrate	0.72%	
Prostaglandin D2-MOX AChE Tracer 0		0.01%	

4 First-aid measures

Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Immediately call a 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.

(Contd. on page 4)

US

Printing date 10/11/2021

Revision date 10/11/2021

(Contd. from page 3)

Trade name: Prostaglandin D2-MOX AChE Tracer

· Special hazards arising from the substance or mixture

67-56-1During heating or in case of fire poisonous gases are produced.

- Advice for firefighters
- Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

Protective Action Criteria for Chemicals PAC-1:				
7758-11-4 Potassium phosphate dibasic 13 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:				
7758-11-4 Potassium phosphate dibasic 140 mg/m ³				
7778-77-0 Potassium phosphate, Monobasic 110 mg/m ³				
26628-22-8 Sodium azide 0.29 mg/m ³				
PAC-3:				
7758-11-4 Potassium phosphate dibasic 830 mg/m ³				
7778-77-0 Potassium phosphate, Monobasic 630 mg/m ³				
26628-22-8 Sodium azide 5.3 mg/m ³				

7 Handling and storage

· Handling:

- · Precautions for safe handling
- Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

- Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- 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: Keep receptacle tightly sealed.

(Contd. on page 5)

US -

Printing date 10/11/2021

Revision date 10/11/2021

(Contd. from page 4)

Trade name: Prostaglandin D2-MOX AChE Tracer

• 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.

At this time, the other constituents have no known exposure limits.

26628-22-8 Sodium azide

- REL Ceiling limit value: 0.3** mg/m³, 0.1* ppm *as HN3; **as NaN3; Skin
- TLV Ceiling limit value: 0.29** mg/m³, 0.11* ppm *as HN3 vapor **as NaN3, A4

• Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
- · General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the skin. Avoid contact with the eyes and skin.
- · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 6)

US

Printing date 10/11/2021

Revision date 10/11/2021

Trade name: Prostaglandin D2-MOX AChE Tracer

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

 Information on basic physical and General Information 	chemical properties
 Appearance: Form: Color: Odor: Odor threshold: 	Lyophilized powder Not determined. Characteristic Not determined.
· pH-value:	Not applicable.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not determined.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
 Danger of explosion: 	Product does not present an explosion hazard.
 Explosion limits: Lower: Upper: 	Not determined. Not determined.
· Vapor pressure:	Not applicable.
 Density: Relative density Vapor density Evaporation rate 	Not determined. Not determined. Not applicable. Not applicable.
 Solubility in / Miscibility with Water: 	Soluble.
· Partition coefficient (n-octanol/wa	ter): Not determined.
· Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.
 Solvent content: VOC content: 	0.00 %
Solids content:	100.0 %
	(Contd. on page 7

(Contd. from page 5)

Printing date 10/11/2021

Revision date 10/11/2021

Trade name: Prostaglandin D2-MOX AChE Tracer

(Contd. from page 6)

· 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:

sodium oxides, potassium oxides, hydrogen oxides, phosphotus oxides

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Tox Oral	LD50	1,016 mg/kg
		1,010 119/109
7647-14-5 Sodiu		
Oral	LDLO	1,000 mg/kg (man)
	TDLO	650 ml/kg (man)
	LD50	4,000 mg/kg (mouse)
		3,000 mg/kg (rat)
	LD50	4 g/kg (mouse)
Inhalative	LC50	320 mg/m³ (mouse)
	TCLO	0.63 mg/m³ (hmn)
	LCLO	29,300 mg/m³/7h (mouse)
Irritation of skin	Irritation	500 mg/24h (rabbit)
Irritation of eyes	Irritation	100 mg/24h (rabbit)
	Intraperitoneal LD50	2,602 mg/kg (mouse)
	Subcutaneous LD50	31.6 mg/kg (rat)
	Intravenous LD50	59.5 mg/kg (rat)
	Data	15 mg/3D (hmn)
	Subcutaneous LD50	3 g/kg (mouse)
9048-46-8 Albur	nin, bovine	
	Intraperitoneal TDLO	0.2 pph (mouse)
7778-77-0 Potas	sium phosphate, Mo	nobasic
Oral	LDLO	4,640 mg/kg (rat)
26628-22-8 Sod	ium azide	•
Oral	LDLO	27 mg/kg (rat)
	TDLO	3 ml/kg (wmn)

Printing date 10/11/2021

Revision date 10/11/2021

Trade name: Prostaglandin D2-MOX AChE Tracer

		(Contd. from page 7)
	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)
	icological information hows the following dan	ers according to internally approved calculation methods for
Carcinogenic	categories	
· IARC (Internat	ional Agency for Rese	arch on Cancer)
None of the ing	redients is listed.	
· NTP (National	Toxicology Program)	
None of the ing	redients is listed.	
	cupational Safety & He	

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.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

(Contd. on page 9)

Printing date 10/11/2021

Revision date 10/11/2021

Trade name: Prostaglandin D2-MOX AChE Tracer

(Contd. from page 8)

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

14 manaport information	
· 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 II MARPOL73/78 and the IBC Code 	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	· Section 355 (extremely hazardous substances):			
26628-22-8	Sodium azide			
· Section 313 (Specific toxic chemical listings):				
26628-22-8	Sodium azide			
· TSCA (Toxi	TSCA (Toxic Substances Control Act):			
7647-14-5	Sodium chloride	ACTIVE		
7758-11-4	Potassium phosphate dibasic	ACTIVE		
9048-46-8	Albumin, bovine	ACTIVE		
7778-77-0	Potassium phosphate, Monobasic	ACTIVE		
26628-22-8	Sodium azide	ACTIVE		
	(Contd	on page 10)		

Printing date 10/11/2021

Revision date 10/11/2021

Trade name: Prostaglandin D2-MOX AChE Tracer

(Contd. from page 9)

None of the ingredients is listed.

· Hazardous Air Pollutants

· 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)

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 10/11/2021 / -
- 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

(Contd. on page 11)

Printing date 10/11/2021

Revision date 10/11/2021

Trade name: Prostaglandin D2-MOX AChE Tracer

(Contd. from page 10)

Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2