

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 05/21/2025

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1 Identification

- Product identifier
- · Trade name: Latanoprost (free acid) ELISA Standard
- · Other means of identification
- · Article number: 416814
- **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

GHS02 Flame

Flammable liquids 2 H225 Highly flammable liquid and vapor.

GHS07

H319 Causes serious eye irritation.

Label elements

Eye irritation 2A

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



· Signal word Danger

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	• • • • •	(Contd. from page 1)			
	ard statements				
		able liquid and vapor.			
		bus eye irritation.			
	cautionary sta				
P21		Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.			
D 00		No smoking.			
P23		Keep container tightly closed.			
P24		Ground / bond container and receiving equipment.			
P24		Use explosion-proof [electrical/ventilating/lighting] equipment.			
P24		Use non-sparking tools.			
P24	3	Take action to prevent static discharge.			
P26		Wash thoroughly after handling.			
P28		Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.			
P30		If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].			
P30		If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
P33	7+P313	If eye irritation persists: Get medical advice/attention.			
P37	0+P378	In case of fire: Use CO2, powder or water spray to extinguish.			
P40		Store in a well-ventilated place. Keep cool.			
P50		Dispose of contents/container in accordance with local/regional/national/international regulations.			
· Info		ining to particular dangers for man and environment:			
	ssification sys				
	A ratings (sca				
	▲ · ·	,			
	A Health				
	Fire =				
	U React	tivity = 0			
НМІ	S-ratings (sca	le 0 - 4)			
HEA		th = 2			
FIRE					
REA	CTIVITY O Read	ctivity = 0			
· Oth	er hazards				
	 Results of PBT and vPvB assessment PBT: Not applicable. 				
	B: Not applicat				
	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.				
		wise classified			
		se physical or health effects known that are not covered by the hazard classes of the ations Standard.			
пад		alions Stanuaru.			
3 Co	mposition/ir	nformation on ingredients			
		erization: Mixtures			
· Des	cription: Mixtu	re of the substances listed below with nonhazardous additions.			

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>50–≤100%

≤2.5%

· Other ingredients

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· Additional information:

· Dangerous components:

The specific chemical identity of composition and exact percentage is being withheld as a trade secret. The specific chemical identity and exact percentage is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of paragraph §1910.1200.

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- 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.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. **Special hazards arising from the substance or mixture** No further relevant information available.

- Special nazards arising from the substance or mixture No further in Advise for firefightere
 - · Advice for firefighters
 - · Protective equipment: No special measures required.

6 Accidental release measures

 Personal precautions, protective equipment and emergency pro Wear protective equipment. Keep unprotected persons away. Environmental precautions: Dilute with plenty of water. 	ocedures
 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, un Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. Protective Action Criteria for Chemicals 	iversal binders, sawdust).
PAC-1:	
Trade Secret	1,800 ppm
PAC-2:	
Trade Secret	3300* ppm
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15000* ppm

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· PAC-3:

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· 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 precautions are necessary if used correctly. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure. Keep away from sources of ignition. Take precautionary measures against static discharge.re.

- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.
- · 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: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Control parameters

Components with limit values that require monitoring at the workplace:

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- PEL Long-term value: 1900 mg/m³, 1000 ppm
- REL Long-term value: 1900 mg/m³, 1000 ppm
- TLV Short-term value: 1880 mg/m³, 1000 ppm

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

- Exposure controls
- Appropriate engineering controls No further data; see section 7.
- · 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.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.
- Breathing equipment: Not required.

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· 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.

• Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

 Information on basic physical and chemic General Information 	al properties
· Physical state	Liquid
· Color:	According to product specification
· Odor:	Alcohol-like
· Storage Buffer	
· Odor threshold:	Not determined.
· Formulation	A solution in ethanol
 Melting point/Melting range: 	-114 °C (-173.2 °F)
Boiling point/Boiling range:	78 °C (172.4 °F)
· Flammability:	Highly flammable.
Explosion limits:	
Lower:	3.3 Vol %
· Upper:	19 Vol %
Flash point:	13 °C (55.4 °F)
Auto igniting:	425 °C (797 °F)
 Decomposition temperature: 	Not determined.
· pH-value:	Not determined.
· Viscosity:	
· Kinematic:	Not determined.
SOLUBILITY	
· Dynamic at 20 °C (68 °F):	1.2 mPas
 Solubility in / Miscibility with 	
· Water at 20 °C (68 °F):	1,000 g/l
 Partition coefficient (n-octanol/water): 	Not determined.

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· Vapor pressure at 20 °C (68 °F):	59 hPa (44.3 mm Hg)
· Vapor pressure at 50 °C (122 °F):	280 hPa (210 mm Hg)
[.] Density at 20 °C (68 °F):	0.79 g/cm³ (6.59255 lbs/gal)
Relative density	Not determined.
· Vapor density	Not determined.
 Particle characteristics 	Not applicable.
· Other information	
· Appearance:	
· Form:	Liquid
 Important information on protection of 	health
and environment, and on safety.	
 Ignition temperature: 	Product is not selfigniting.
 Danger of explosion: 	Product is not explosive. However, formation of
	explosive air/vapor mixtures are possible.
 Solvent content: 	
 Organic solvents: 	100.0 %
VOC content:	99.99 %
	999.9 g/l / 8.34 lb/gal
· Solids content:	0.0 %
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.

11 Toxicological information

- Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

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Oral	LD50	10,470 mg/kg (rat)
		10,470 mg/kg (rat) OECD Test Guideline 401
Inhalative	LC50/4 h	117–125 mg/l (rat) OECD 403 (rat)
		OECD 403 (rat)

- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.

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• Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

- · Interactive effects No interactive effects between components are known.
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

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· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · **Bioaccumulative potential** No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects
- · 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.

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

- · UN-Number
- · DOT, IMDG, IATA

UN1170

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· UN proper shipping name	
DOT	Ethanol solutions
·IMDG	ETHANOL SOLUTION (ETHYL ALCOHO
	SOLUTION)
·IATA	Ethanol solution
· Transport hazard class(es)	
· DOT	
FLAMMABLE LIQUID	
3	
· Class	2 Elementela liquida
	3 Flammable liquids 3
	J
· IMDG, IATA	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, IMDG, IATA	11
Environmental hazards:	Not applicable.
· 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 · Limited quantities (LQ)	11
· Limited quantities (LQ)	1L Code: E2
	Code: E2
· Limited quantities (LQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml
 Limited quantities (LQ) Excepted quantities (EQ) 	Code: E2
 Limited quantities (LQ) Excepted quantities (EQ) IATA 	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
 Limited quantities (LQ) Excepted quantities (EQ) 	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml When sold in quantities of less than or equal to 1 m
 Limited quantities (LQ) Excepted quantities (EQ) IATA 	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml When sold in quantities of less than or equal to 1 ml or 1 g, with an Excepted Quantity Code of
 Limited quantities (LQ) Excepted quantities (EQ) IATA 	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 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
 Limited quantities (LQ) Excepted quantities (EQ) IATA 	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 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.
 Limited quantities (LQ) Excepted quantities (EQ) IATA 	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 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.
 Limited quantities (LQ) Excepted quantities (EQ) IATA Remarks: 	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 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.
 Limited quantities (LQ) Excepted quantities (EQ) IATA Remarks: Special precautions for user 	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 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. Warning: Flammable liquids
 Limited quantities (LQ) Excepted quantities (EQ) IATA Remarks: 	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 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. Warning: Flammable liquids

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· Stowage Category	A
· UN "Model Regulation":	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II

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 (extremely hazardous substances): None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
TSCA (Toxic Substances Control Act):	
Trade Secret	ACTI
Hazardous Air Pollutants	
None of the ingredients is listed.	
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:	
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Carcinogenic categories	
EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
TLV (Threshold Limit Value)	
Trade Secret	
NIOSH-Ca (National Institute for Occupational Safety and Health)	I
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.

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· Contact: -	
 Date of previous version 02/18/2022 	
Date of preparation 05/21/2025	
· 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	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
Flammable liquids 2: Flammable liquids – Category 2	
Eye irritation 2A: Serious eye damage/eye irritation – Category 2A	
* Data compared to the previous version altered.	