

SAFETY DATA SHEET PA Assay Lipase

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according to Regulation (EC) No. 1907/2006

Revision: 04/29/2013

Supercedes Revision: 11/06/2009

Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108

Section 1. Identification of the Substance/Mixture and of the

Product Code:

Product Name: PA Assay Lipase

Relevant identified uses of the substance or mixture and uses advised against 1.2

Relevant identified uses: For research use only, not for human or veterinary use.

700242

Details of the Supplier of the Safety Data Sheet

Company Name: Cayman Chemical Company

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300 **Alternate Emergency Contact:** CHEMTREC Outside USA and Canada: +1 (703)527-3887

Information: Cayman Chemical Company +1 (734)971-3335

Web site address: www.caymanchem.com

Section 2. Hazards Identification

GHS Hazard Phrases: Based on evaluation of currently available data this substance or mixture is not classifiable

according to GHS.

GHS Precaution Phrases: No data available. **GHS Response Phrases:** No data available.

GHS Storage and Disposal Phrases: Please refer to Section 7 for Storage and Section 13 for Disposal information.

Adverse Human Health Effects and

Symptoms:

Material may be irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation, ingestion, or skin absorption.

May cause eye, skin, or respiratory system irritation.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Medical Conditions Generally Aggravated By No data available.

Exposure:

Section 3. Composition/Information on Ingredients						
Hazardous Components (Chemical Name)	CAS#	Concentration	EC#	Risk Phrases	RTECS #	
1. Lipase	9001-62-1	< 1.0 %	232-619-9	R35-36-42	OJ0400700	
2. Trizma base	77-86-1	< 1.0 %	201-064-4	R36/37/38	TY2900000	
3. Sodium chloride	7647-14-5	< 1.0 %	231-598-3	R36	VZ4725000	
4. Water	7732-18-5	>97.0 %	231-791-2	No phrases apply.	ZC0110000	

Section 4. First Aid Measures

Description of First Aid Measures:

4.1.1 In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained

personnel. Get immediate medical attention.

4.1.2 In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove

contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes

examined and tested by medical personnel.

4.1.4 In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an

unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by

medical personnel.



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Important Symptoms and Effects,

Both Acute and Delayed:

No data available.

Indication of any immediate medical 4.3 attention and special treatment needed:

No data available.

Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media: A solid water stream may be inefficient.

5.2 Flammable Properties and Hazards: No data available.

> Flash Pt: No data.

No data available. **Autoignition Pt:**

Explosive Limits: LEL: No data. UEL: No data.

Hazardous Combustion Products: No data available.

5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or

equivalent), and full protective gear to prevent contact with skin and eyes.

Section 6. Accidental Release Measures

Protective Precautions, Protective Avoid breathing vapors and provide adequate ventilation.

Equipment and Emergency Procedures: As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,

and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

6.2 **Environmental Precautions:** Take steps to avoid release into the environment, if safe to do so.

6.3 **Methods and Material For** Contain spill and collect, as appropriate.

Containment and Cleaning Up: Transfer to a chemical waste container for disposal in accordance with local regulations.

Section 7. Handling and Storage

7.1 Precautions To Be Taken in Handling: Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid prolonged or repeated exposure.

7.2 Precautions To Be Taken in Storing: Keep container tightly closed.

Store in accordance with information listed on the product insert.

Hazard Label Information: Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation.

Wash thoroughly after handling.

Section 8. Exposure Controls/Personal Protection						
Hazardous Components (Chemical Name)	CAS#	OSHA PEL	ACGIH TLV	Other Limits		
1. Lipase	9001-62-1	No data.	No data.	No data.		
2. Trizma base	77-86-1	No data.	No data.	No data.		
3. Sodium chloride	7647-14-5	No data.	No data.	No data.		
4. Water	7732-18-5	No data.	No data.	No data.		
Hazardous Components (Chemical Name)	CAS#	Britain EH40	France VL	Europe		
1. Lipase	9001-62-1	No data.	No data.	No data.		
2. Trizma base	77-86-1	No data.	No data.	No data.		
3. Sodium chloride	7647-14-5	No data.	No data.	No data.		
4. Water	7732-18-5	No data.	No data.	No data.		

Protective Equipment Summary - Hazard

Label Information:

Compatible chemical-resistant gloves Eye wash station in work area Lab coat Safety Safety shower in work area Vent Hood

Engineering Controls (Ventilation

etc.):

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.



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8.2.2.1 Eye Protection: Safety glasses

8.2.2.2 Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

8.2.2.3 Respiratory Equipment (Specify

Type):

NIOSH approved respirator, as conditions warrant.

Work/Hygienic/Maintenance Practices: Do not take internally.

Facilities storing or utilizing this material should be equipped with an eyewash and a safety

shower.

Wash thoroughly after handling.

8.2.3 Environmental Exposure Controls: No data available.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Che	emical Properties					
Physical States:	[] Gas [X] Liquid [] Solid					
Appearance and Odor:	No data available.					
Melting Point:	No data.					
Boiling Point:	No data.					
Flash Pt:	No data.					
Evaporation Rate:	No data.					
Vapor Pressure (vs. Air or mm Hg):	No data.					
Vapor Density (vs. Air = 1):	No data.					
Specific Gravity (Water = 1):	No data.					
Solubility in Water:	No data.					
Autoignition Pt:	No data.					
Explosive Properties:	No data available.					
Oxidizing Properties:	No data available.					
9.2 Other Information						
Percent Volatile:	No data.					
Section 10. Stability and Reactivity						
10.1 Reactivity:	No data available.					
10.2 Stability:	Unstable [] Stable [X]					
10.3 Stability Note(s):	Stable if stored in accordance with information listed on the product insert.					
10.4 Conditions To Avoid:	No data available.					
10.3 Polymerization:	Will occur [] Will not occur [X]					
10.5 Incompatibility - Materials To Avoid:	No data available.					
10.6 Hazardous Decomposition Or Byproducts:	No data available.					
Section 11. Toxicological Information						

11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied.

Chronic Toxicological Effects: No data available.

Hazardous Components (Chemical Name)	CAS#	NTP	IARC	ACGIH	OSHA
1. Lipase	9001-62-1	n.a.	n.a.	n.a.	n.a.
2. Trizma base	77-86-1	n.a.	n.a.	n.a.	n.a.



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Hazardous Components (Chemical Name)	CAS#	NTP	IARC	ACGIH	OSHA
3. Sodium chloride	7647-14-5	n.a.	n.a.	n.a.	n.a.
4. Water	7732-18-5	n.a.	n.a.	n.a.	n.a.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

Section 12. Ecological Information

12.1 Toxicity: Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

Section 13. Disposal Considerations

13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT)

DOT Proper Shipping NameNot dangerous goods.

14.1 LAND TRANSPORT (European ADR/RID)

ADR/RID Shipping Name Not dangerous goods.

14.3 AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name Not dangerous goods.

Additional Transport Information: Transport in accordance with local, state, and federal regulations.

Section 15. Regulatory Information

European Community Hazard Symbol codes

No data available.

European Community Risk and Safety Phrases

S24/25 - Avoid contact with skin and eyes.

S37/39 - Wear suitable gloves and eye/face protection.

US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS#	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Lipase	9001-62-1	No	No	No	No
2. Trizma base	77-86-1	No	No	Yes-Cat. N106	No
3. Sodium chloride	7647-14-5	No	No	No	No
4. Water	7732-18-5	No	No	No	No

Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS#	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
1. Lipase	9001-62-1	No	No	Inventory	No
2. Trizma base	77-86-1	HAP	No	Inventory	No
3. Sodium chloride	7647-14-5	No	No	Inventory	No
4. Water	7732-18-5	No	No	Inventory	No

Regulatory Information Statement: This SDS was prepared in accordance with 29 CFR 1910.1200, Regulation (EC) No.1272/2008, and European Directive 67/548/EEC as amended.

Section 16. Other Information

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Company Policy or Disclaimer

For research use only, not for human or veterinary use.

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required