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Revision: 08/22/2012 Supercedes Revision: 01/03/2007

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



1. Identification of the Substance/Mixture and of the Company/Undertaking

Product Code: 760910

Product Name: PAF Acetylhydrolase Assay Buffer 1

Intended Use: For research use only, not for human or veterinary use.

Manufacturer Information

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

2. Hazards Identification					
GHS Classification	Placard	Key word	GHS Hazard		
Skin Corrosion/Irritation, Category 2	Exclamation point	Warning	Causes skin irritation		
Serious Eye Damage/Eye Irritation, Category 2A	Exclamation point	Warning	Causes serious eye irritation		
Target Organ Systemic Toxicity (single exposure), Category 3	Exclamation point	Warning	May cause respiratory irritation,or may cause drowsiness and dizziness		

GHS Hazard Phrases: H315: Causes skin irritation.

H319: Causes serious eye irritation H335: May cause respiratory irritation.

GHS Precaution Phrases: P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/clothing and eye/face protection as specified by the

 $manufacturer/supplier\ or\ the\ competent\ authority.$

 $P261: A void \ breathing \ dust/fume/gas/mist/vapours/spray.$

GHS Response Phrases: P302+352: IF ON SKIN: Wash with plenty of soap and water.

P332+313: If skin irritation occurs, get medical advice/attention. P362: Take off contaminated clothing and wash before re-use.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P337+313: If eye irritation persists, get medical advice/attention.

P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable

for breathing.

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

Route(s) of Entry: Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes Other: Injection

Potential Health Effects (Acute and Chronic): Material is irritating to the mucous membranes and upper respiratory tract.

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

Causes eye, skin, or respiratory system irritation.

Target Organs: No data available.

LD 50 / LC 50: Please refer to Section 11.



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Signs and Symptoms Of Exposure:

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

Medical Conditions Generally Aggravated By No data available.

Exposure:

	Composition/Information on Ingredients					
Hazardous Components (Chemical Name) CAS # Concentration EC# Risk Phrases RTECS #					RTECS#	
1.	Trizma base	77-86-1	12.1 %	201-064-4	R36/37/38	TY2900000
2.	EGTA (Ethyleneglycol-bis-(b-aminoethyl ether) N,N,N',N'-tetr	67-42-5	0.38 %	200-651-2	No phrases apply.	AH3760000
3.	Water	7732-18-5	87.52 %	231-791-2	No phrases apply.	ZC0110000

4. First Aid Measures

Emergency and First Aid Procedures:

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

personnel. Get immediate medical attention.

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.

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.

Fire Fighting Measures

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.

Flammable Properties and Hazards: No data available. **Hazardous Combustion Products:** No data available.

Flash Pt: No data

Autoignition Pt: No data available.

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

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.

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).

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

Steps To Be Taken In Case Material Is

Contain spill and collect, as appropriate.

Released Or Spilled:

Transfer to a chemical waste container for disposal in accordance with local regulations.

7. Handling and Storage

Precautions To Be Taken in Handling:

Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid prolonged or repeated exposure.

Precautions To Be Taken in Storing:

Keep container tightly closed.

Store in accordance with information listed on the product insert.



Stability:

SAFETY DATA SHEET PAF Acetylhydrolase Assay Buffer 1

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Hazard Label Information:

Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation.

Wash thoroughly after handling.								
8. Exposure Controls/Personal Protection								
Hazardous Components (Chemical Name)	CAS#	OSHA PEL	ACGIH TLV	Other Limits				
1. Trizma base	77-86-1	No data.	No data.	No data.				
2. EGTA (Ethyleneglycol-bis-(b-aminoethyl ether)	67-42-5	No data.	No data.	No data.				
N,N,N',N'-tetr		1		ļ				
3. Water	7732-18-5	No data.	No data.	No data.				
Hazardous Components (Chemical Name) 1. Trizma base	CAS # 77-86-1	Britain EH40 No data.	France VL No data.	No data.				
EGTA (Ethyleneglycol-bis-(b-aminoethyl ether)	67-42-5	No data.	No data.	No data.				
N,N,N',N'-tetr	07 42 0	140 data.	TVO data.	140 data.				
3. Water	7732-18-5	No data.	No data.	No data.				
Protective Equipment Summary - Hazard	Compatible chem	ical-resistant gloves Eye was	sh station in work area Lab coa	at Safety				
Label Information:	glasses Safety	shower in work area Vent Ho	ood					
	-		, or other engineering controls to	control airborne				
		mmended exposure limits.						
Eye Protection:	Safety glasses							
Protective Gloves:	Compatible chem	ical-resistant gloves						
Other Protective Clothing:	Lab coat							
Respiratory Equipment (Specify Type):	NIOSH approved	respirator, as conditions warran	nt.					
Work/Hygienic/Maintenance Practices:	Do not take interr	nally.						
Facilities storing or utilizing this material should be equipped with an eyewash and a safety								
shower.								
	Wash thoroughly	after handling.						
9. Pl	9. Physical and Chemical Properties							
Information on Basic Physical and Chemical Pr	operties							
Physical States:	[] Gas [X]	Liquid [] Solid						
Appearance and Odor:	No data available							
Boiling Point:	No data.							
pH:	7.2							
Melting Point:	No data.							
Autoignition Pt: No data.								
Flash Pt: No data.								
Specific Gravity (Water = 1): No data.								
Vapor Pressure (vs. Air or mm Hg): No data.								
Vapor Density (vs. Air = 1): No data.								
Evaporation Rate:	Evaporation Rate: No data.							
Solubility in Water:	No data.							
Other Information								
Percent Volatile:	No data.							
	10 Stabil	ity and Reactivity						

Unstable [] Stable [X]



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Stability Note(s): Stable if stored in accordance with information listed on the product insert.

Conditions To Avoid: No data available.

Polymerization: Will occur [X]

Incompatibility - Materials To Avoid: strong oxidizing agents

Hazardous Decomposition Or Byproducts: carbon dioxide

carbon monoxide nitrogen oxides

11. Toxicological Information

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

Trizma base - Toxicity Data: Oral LD50 (rat): >3,000 mg/kg; Oral LD50 (mouse): 5,500 mg/kg;

Chronic Toxicological Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.

See actual entry in RTECS for complete information.

Trizma base RTECS Number: TY2900000

Hazardous Components (Chemical Name)	CAS#	NTP	IARC	ACGIH	OSHA
1. Trizma base	77-86-1	n.a.	n.a.	n.a.	n.a.
EGTA (Ethyleneglycol-bis-(b-aminoethyl ether) N,N,N',N'-tetr	67-42-5	n.a.	n.a.	n.a.	n.a.
3. Water	7732-18-5	n.a.	n.a.	n.a.	n.a.
Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No					

12. Ecological Information

General Ecological Information: Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

13. Disposal Considerations

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

14. Transport Information

Globally Harmonized System of Classification and Labelling

Skin Corrosion/Irritation, Category 2 - Warning! Causes skin irritation

Serious Eye Damage/Eye Irritation, Category 2A - Warning! Causes serious eye irritation

Target Organ Systemic Toxicity (single exposure), Category 3 - Warning! May cause respiratory irritation, or may cause drowsiness and dizziness

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name Not dangerous goods.

LAND TRANSPORT (European ADR/RID)

ADR/RID Shipping Name Not dangerous goods.

AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name Not dangerous goods.

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

15. Regulatory Information

European Community Hazard Symbol codes Xi: Irritant

European Community Risk and Safety Phrases

R36/37/38 - Irritating to eyes, respiratory system and skin.

S24/25 - Avoid contact with skin and eyes.

- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.



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Hazardous Components (Chemical Name)		CAS#	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1.	Trizma base	77-86-1	No	No	Yes-Cat. N106	No
2.	EGTA (Ethyleneglycol-bis-(b-aminoethyl ether)	67-42-5	No	No	No	No
	N,N,N',N'-tetr					
3.	Water	7732-18-5	No	No	No	No

Other US EPA or State Lists

На	zardous Components (Chemical Name)	CAS#	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
1.	Trizma base	77-86-1	HAP	No	Inventory	No
2.	EGTA (Ethyleneglycol-bis-(b-aminoethyl ether) N,N,N',N'-tetr	67-42-5	HAP	No	Inventory	No
3.	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.

16. Other Information

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