

Caspase-3 (human) Polyclonal Antibody

Revision: 05/24/2013

Page:

Supercedes Revision: 11/26/2006

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



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

1.1 Product Code: 160745

Product Name: Caspase-3 (human) Polyclonal Antibody

Synonyms: Apopain; CPP32; ICE3; Yama;

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

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

1.3 Details of the Supplier of the Safety Data Sheet

Company Name: Cayman Chemical Company

Emergency Contact:CHEMTREC Within USA and Canada:+1 (800)424-9300Alternate Emergency Contact:CHEMTREC Outside USA and Canada:+1 (703)527-3887Information:Cayman Chemical Company+1 (734)971-3335

Web site address: www.caymanchem.com

Section 2.	Hazards I	ldentification
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GHS Classification	Placard		GHS hazard phrase	
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	
Acute Toxicity: Oral, Category 5	none	Warning	May be harmful if swallowed	

GHS Hazard Phrases: H315: Causes skin irritation.

H319: Causes serious eye irritation H335: May cause respiratory irritation. H303: May be harmful if swallowed.

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: Avoid 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.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

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

2.3 Adverse Human Health Effects and

Symptoms:

Causes skin and serious eye irritation.

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

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

May cause respiratory system irritation.

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



Caspase-3 (human) Polyclonal Antibody

Revision: 05/24/2013

Page:

Supercedes Revision: 11/26/2006

Target Organs: No data available.

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

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. Caspase-3 (human) Polyclonal Antibody	NA	< 9.16 %	NA	No phrases apply.	NA
2. Trizma base	77-86-1	<25.0 %	201-064-4	R36/37/38	TY2900000
3. Sodium chloride	7647-14-5	<66.0 %	231-598-3	R36	VZ4725000

Section 4. First Aid Measures

4.1 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.

4.1.3 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.

4.2 Important Symptoms and Effects,

Both Acute and Delayed:

Ingestion may cause: dehydration, diarrhea, gastrointestinal disturbances, nausea, and vomiting.

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

attention an

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.

Autoignition Pt: No data available.

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

6.1 Protective Precautions, Protective Avoid raising and breathing dust, 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.



Caspase-3 (human) Polyclonal Antibody

Revision: 05/24/2013

Page: 3

Supercedes Revision: 11/26/2006

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	
Caspase-3 (human) Polyclonal Antibody	NA	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.	
Hazardous Components (Chemical Name)	CAS#	Britain EH40	France VL	Europe	
Caspase-3 (human) Polyclonal Antibody	NA	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.	

Protective Equipment Summary - Hazard

Label Information:

glasses Safety shower in work area Vent Hood

8.2.1 Engineering Controls (Ventilation

etc.):

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

levels below recommended exposure limits.

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 [] Liquid [X] Solid
Appearance and Odor:	A lyophilized powder
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.



Caspase-3 (human) Polyclonal Antibody

Revision: 05/24/2013

Page:

Supercedes Revision: 11/26/2006

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: strong oxidizing agents

10.6 Hazardous Decomposition Or

Byproducts:

carbon monoxide hydrogen chloride gas nitrogen oxides sodium oxides

carbon dioxide

Section 11. Toxicological Information

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

Sodium chloride - Toxicity Data: Oral LDLO (man): 1,000 mg/kg; Oral LD50 (mouse): 4,000

mg/kg; Oral LD50 (rat): 3,000 mg/kg;

Trizma base - Toxicity Data: Oral LDLO (rabbit): 1,000 mg/kg; Oral TDLO (mouse): 3,000 mg/kg; Oral LD50 (rat) >3,000 mg/kg; Oral LD50 (mouse): 5,500 mg/kg; Oral TDLO (rat): 3,000

mg/kg;

Chronic Toxicological Effects: Trizma base - Investigated as a reproductive effector.

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

See actual entry in RTECS for complete information. Sodium chloride RTECS Number: VZ4725000 Trizma base RTECS Number: TY2900000

Hazardous Components (Chemical Name)	CAS#	NTP	IARC	ACGIH	OSHA
Caspase-3 (human) Polyclonal Antibody	NA	n.a.	n.a.	n.a.	n.a.
2. Trizma base	77-86-1	n.a.	n.a.	n.a.	n.a.
3. Sodium chloride	7647-14-5	n.a.	n.a.	n.a.	n.a.

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 Name Not dangerous goods.

14.1 LAND TRANSPORT (European ADR/RID)

ADR/RID Shipping Name Not dangerous goods.

14.3 AIR TRANSPORT (ICAO/IATA)



Caspase-3 (human) Polyclonal Antibody

Revision: 05/24/2013

Page: 5

Supercedes Revision: 11/26/2006

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 Xi: Irritant

European Community Risk and Safety Phrases

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

S22 - Do not breathe dust.

S24/25 - Avoid contact with skin and eyes.

S26 - 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.

US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS#	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
Caspase-3 (human) Polyclonal Antibody	NA	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

Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS#	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
Caspase-3 (human) Polyclonal Antibody	NA	No	No	No	No
2. Trizma base	77-86-1	HAP	No	Inventory	No
3. Sodium chloride	7647-14-5	No	No	Inventory	No

Regulatory Information Statement:

This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European $\,$

Directive 67/548/EEC as amended.

Section 16. Other Information

Revision Date: 05/24/2013

Company Policy or Disclaimer

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