

# Safety Data Sheet

REVISION: 02/28/2022

# **SECTION 1: Product and Company Identification**

# Identification of the substance or mixture

**Product Name:** Caspase 3, Human Recombinant

**Catalog #:** 10088

# **Company Identification**

Cepham Life Sciences Inc. 11830 W Market Place, Suite K Fulton, MD 20759

USA

Toll Free: 1-800-257-1565 Phone: 410-636-4954

24-hour Emergency Response for Hazardous Materials [or Dangerous Goods] Incident, Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Toll Free: 1-800-424-9300/ +1 703-527-3887 CCN 1010970

For Research Use Only. Not for use in diagnostic procedures.

# **SECTION 2: Hazards identification**

# Classification of the substance or mixture

Not a hazardous substance or mixture.

# GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

# Hazards not otherwise classified (HNOC) or not covered by GHS

Human source material.

# **SECTION 3: Composition / Information on Ingredients**

**Mixtures** 

Synonyms: Apopain

CPP32 Yama

Hazardous components

riazardous components				
Component	Classification	Concentration		
Glycerol				
CAS-No. 56-81-5		>= 10 - < 20%		
EC-No. 200-289-5				

# **SECTION 4: First Aid Measures**

### Description of first aid measures

# General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### lf inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

# In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

# In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

www.CephamLS.com

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### Indication of any immediate medical attention and special treatment needed

No data available

# **SECTION 5: Firefighting Measures**

# **Extinguishing media**

# Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides

# Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### **Further information**

no data available

# SECTION 6: Accidental Release Measures

# Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

For personal protection see section 8.

#### **Environmental precautions**

Do not let product enter drains.

# Methods and materials for containment and cleaning up

Clean up and decontaminate all materials for disposal, as well as contaminated surfaces, with an effective decontamination method such as autoclaving, incineration, or chemical disinfection. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

# Reference to other sections

For disposal see section 13.

# SECTION 7: Handling & Storage

# Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

For precautions see section 2.2.

### Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature -70 °C

Storage class (TRGS 510): Non-Combustible Liquids

# Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# **SECTION 8: Exposure Controls / Personal Protection**

### Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis	
Glycerol	56-81-5	TWA	10.000000 mg/m3	USA. ACGIH Threshold Limit	
				Values (TLV)	
	Remarks	Upper respiratory tract irritation			
		TWA	15.000000 mg/m3	USA. Occupational Exposure	
				Limits (OSHA) - Table Z-1 Limits for	
				Air Contaminants	
		TWA	5.000000 mg/m3	USA. Occupational Exposure	
				Limits (OSHA) - Table Z-1 Limits for	
				Air Contaminants	

Catalog #: 10088

See Appendix D – Substanc	See Appendix D – Substances with No Established RELs			
TWA	5.000000 mg/m3	USA. Occupational Exposure		
		Limits (OSHA) - Table Z-1 Limits for		
		Air Contaminants		
TWA	15.000000 mg/m3	USA. Occupational Exposure		
		Limits (OSHA) - Table Z-1 Limits for Air Contaminants		

### **Exposure controls**

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

# Personal protective equipment

# Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### **Body Protection**

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# Control of environmental exposure

Do not let product enter drains.

# **SECTION 9: Physical and Chemical Properties**

# Information on basic physical and chemical properties

a) Appearance	Form: liquid
b) Odor	No data available
c) Odor Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or	No data available
explosive limits	
k) Vapour pressure	No data available
Vapour density	No data available
m) Relative density	No data available
n) Water solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

# Other safety information

No data available

# **SECTION 10: Stability & Reactivity**

# Reactivity

No data available

# **Chemical stability**

Stable under recommended storage conditions.

# Possibility of hazardous reactions

No data available

#### Conditions to avoid

No data available

### Incompatible materials

Strong oxidizing agents

# Hazardous decomposition products

Other decomposition products - No data available

In the event of fire: see section 5

# **SECTION 11: Toxicological Information**

# Information on toxicological effects

# **Acute toxicity**

Inhalation: no data available Dermal: no data available no data available

#### Skin corrosion/irritation

No data available

# Serious eye damage/eye irritation

No data available

# Respiratory or skin sensitization

No data available

# Germ cell mutagenicity

No data available

# Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated

carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

# Reproductive toxicity

No data available

### Specific target organ toxicity - single exposure

No data available

# Specific target organ toxicity - repeated exposure

No data available

# **Aspiration hazard**

No data available

# **Additional Information**

RTECS: Not available

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

Kidney - Irregularities - Based on Human Evidence

Kidney - Irregularities - Based on Human Evidence (Glycerol)

Liver - Irregularities - Based on Human Evidence ((R\*,R\*)-(+/-)-1,4-Dimercaptobutane-2,3-diol)

# **SECTION 12: Ecological Information**

# **Toxicity**

No data available

# Persistence and degradability

No data available

# Bioaccumulative potential

No data available

# Mobility in soil

No data available

# Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### Other adverse effects

no data available

# **SECTION 13: Disposal Considerations**

#### Waste treatment methods

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

# Contaminated packaging

Dispose of as unused product.

# **SECTION 14: Transport Information**

# DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

# IATA

Not dangerous goods

# **SECTION 15: Regulatory Information**

# **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### **SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

# SARA 311/312 Hazards

Chronic Health Hazard

# **Massachusetts Right To Know Components**

Glycerol	CAS-No.	56-81-5	Revision Date	2007-03-01
Pennsylvania Right To Know Components Glycerol	CAS-No.	56-81-5	Revision Date	2007-03-01
New Jersey Right to Know Components Glycerol 4-(2-Hydroxyethyl)piperazin-1-ylethanesulphonic acid	CAS-No.	56-81-5 7365-45-9	Revision Date	2007-03-01

# California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Page 5 of 6
Product Name: Caspase 3, Human Recombinant
www.CephamLS.com

# **SECTION 16: Other Information**

# **HMIS Rating**

Health hazard: 0
Chronic Health Hazard: \*
Flammability: 0
Physical Hazard 0

# **NFPA Rating**

Health hazard: 0 Fire Hazard: 0 Reactivity Hazard: 0

# Disclaimer:

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It does not represent any guarantee of the properties of the product. Cepham Life Sciences Incorporated and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.