

Order Number

Customer Number

## 1. Identification of the substance/preparation and of the company/undertaking

**Product name** : Caspase-8, Human, Recombinant, *E. coli* **Catalog #** : 218769  
**Chemical formula** : N/A **Supplier** : EMD Biosciences, Inc.  
 10394 Pacific Center Court  
 San Diego, CA 92121  
 (858)450-5558/(800)854-3417  
 FAX: (858)453-3552  
**Synonym** : FLICE  
 MACH  
 Mch5

**Emergency telephone number** : Call Chemtrec®  
 (800)424-9300 (within U.S.A.)  
 (703)527-3887 (outside U.S.A.)

## 2. Composition / information on ingredients

**Substance/Preparation** : Substance

Chemical name*	CAS No.	EC Number	Symbol	R-Phrases
FLICE MACH Mch5	N/A	Not available.	-	-

## 3. Hazards identification

**Physical/chemical hazards** : Not applicable.  
**Human health hazards** : No specific hazard.

## 4. First-aid measures

### First-Aid measures

**Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.  
**Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.  
**Skin Contact** : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.  
**Eye Contact** : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.  
**Aggravating conditions** : Repeated or prolonged exposure is not known to aggravate medical condition.

## 5. Fire-fighting measures

**Flammability of the Product** : May be combustible at high temperature.

### Extinguishing Media

**Suitable** : SMALL FIRE: Use DRY chemical powder.  
 LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Hazardous thermal (de)composition products** : These products are nitrogen oxides (NO, NO2...).

**Special fire-fighting procedures** : Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

**Protection of fire-fighters** : Be sure to use an approved/certified respirator or equivalent.

## 6. Accidental release measures

- Personal precautions** : Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
- Small Spill and Leak** : Absorb with an inert material and put the spilled material in an appropriate waste disposal.
- Large Spill and Leak** : Absorb with an inert material and put the spilled material in an appropriate waste disposal.

## 7. Handling and storage

- Handling** : Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe gas/fumes/ vapor/spray.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above -70°C (-94°F).
- Packaging materials**
- Recommended use** : Use original container.

## 8. Exposure controls/personal protection

- Engineering measures** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
- Hygiene measures** : Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.

<u>Ingredient Name</u>	<u>Occupational Exposure Limits</u>
Caspase-8, Human, Recombinant, <i>E. coli</i>	Not available.

### Personal protective equipment

- Skin and body** : Lab coat.
- Eyes** : Safety glasses.
- Protective Clothing (Pictograms)** :



## 9. Physical and chemical properties

- Physical state** : Liquid. ( In 50 mM HEPES, 100 mM NaCl, 10 mM DTT, 1 mM EDTA, 10% glycerol, 0.5% CHAPS, pH 7.4.)
- Color** : Not available.
- Molecular Weight** : Not available.
- Solubility** : Not available.
- Flash point** : Not available.
- Explosive properties** : Risks of explosion of the product in presence of mechanical impact: Not available.  
Risks of explosion of the product in presence of static discharge: Not available.

## 10. Stability and reactivity

- Stability** : The product is stable.
- Conditions to avoid** : Not available.
- Hazardous Decomposition Products** : These products are nitrogen oxides (NO, NO2...).

## 11. Toxicological information

- RTECS #** : N/A
- Local effects**
- Skin irritation** : Not available.
- Acute toxicity** : LD50: Not available.  
LC50: Not available.
- Chronic toxicity** : Repeated or prolonged exposure is not known to aggravate medical condition.
- Other Toxic Effects on Humans** : Not available.  
No specific information is available in our database regarding the other toxic effects of this material for humans.  
Not available.  
To the best of our knowledge, the toxicological properties of this product have not been thoroughly investigated.

Carcinogenic effects	: Not available.
Mutagenic effects	: Not available.
Reproduction toxicity	: Not available.
Teratogenic effects	: Not available.

## 12. Ecological information

Ecotoxicity	: Not available.
Toxicity of the Products of Biodegradation	: The product itself and its products of degradation are not toxic.

## 13. Disposal considerations

**Methods of disposal; Waste of residues; Contaminated packaging** : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## 14. Transport information

### International transport regulations

#### Land - Road/Railway

ADR/RID Class : Not controlled under ADR (Europe).

#### Sea

IMDG Class : Not controlled under IMDG.

#### Air

IATA-DGR Class : Not controlled under IATA.

Special Provisions for Transport : Not applicable.

## 15. Regulatory information

### EU Regulations

**Risk Phrases** : This product is not classified according to the EU regulations.

### U.S. Federal Regulations

: TSCA: No products were found.  
 SARA 302/304/311/312 extremely hazardous substances: No products were found.  
 SARA 302/304 emergency planning and notification: No products were found.  
 SARA 302/304/311/312 hazardous chemicals: No products were found.  
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.  
 SARA 313 toxic chemical notification and release reporting: No products were found.  
 Clean Water Act (CWA) 307: No products were found.  
 Clean Water Act (CWA) 311: No products were found.  
 Clean air act (CAA) 112 accidental release prevention: No products were found.  
 Clean air act (CAA) 112 regulated flammable substances: No products were found.  
 Clean air act (CAA) 112 regulated toxic substances: No products were found.

**HCS Classification** : Not controlled under the HCS (United States).

**State Regulations** :

**WHMIS (Canada)** : Not controlled under WHMIS (Canada).  
 No products were found.

## 16. Other information

### Hazardous Material Information System (U.S.A.)

Health	0
Fire Hazard	1
Reactivity	0
Personal Protection	A

### National Fire Protection Association (U.S.A.)



### Notice to Reader

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. \*\*This product is intended for research use only.\*\**

Catalog # 218769

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Page: 3/3