

# SAFETY DATA SHEET

Cat# 1141-1, -5, Caspase-1 Inhibitor, Z-YVAD-FMK

SDS DATE: Aug 25, 2011

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Caspase-1 Inhibitor, Z-YVAD-FMK  
**PRODUCT CODES:** Cat# 1141-1, -5  
**MANUFACTURER:** BioVision, Inc.  
**DIVISION:**  
**ADDRESS:** 155 S. Milpitas Boulevard, Milpitas, CA 95035  
**EMERGENCY PHONE:** 858-373-8066  
**CHEMTREC PHONE:**  
**OTHER CALLS:** 408-493-1800  
**FAX PHONE:** 408-493-1801

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component	Description	Volume	Safety Information
Caspase-1 Inhibitor, Z-YVAD-FMK Z-Tyr-Val-Ala-Asp(OMe)-FMK FMK (fluoromethyl ketone)	Solid	1141-1: 1 mg 1141-5: 5 mg	See below

## SECTION 3: HAZARDS IDENTIFICATION

Product Name/Chemical Name	CAS Number	EC-No.	MW	Chemical Formula
Z-YVAD-FMK	N/A	N/A	630.7	C <sub>31</sub> H <sub>39</sub> FN <sub>4</sub> O <sub>9</sub>

### Z-YVAD-FMK:

#### Emergency Overview

**OSHA Hazards:** no known OSHA hazards

#### GHS Label elements, including precautionary statements

Pictogram: none

Signal word: none

Hazard statement(s): none

Precautionary statement(s): none

#### HMIS Classification

Health hazard: 0

Flammability: 0

Physical hazards: 0

#### NFPA Rating

Health hazard: 0

Fire: 0

Reactivity Hazard: 0

#### Potential Health Effects

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

**Skin:** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes:** May cause eye irritation.

**Ingestion:** May be harmful if swallowed.

## SECTION 4: FIRST AID MEASURES

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

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact:** Wash off with soap and plenty of water.

**In case of eye contact:** Flush eyes with water as a precaution.

**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water.

## SECTION 5: FIRE-FIGHTING MEASURES

### Suitable extinguishing media

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

### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

**Environmental precautions:** Do not let product enter drains.

**Methods for cleaning up:** Sweep up and shovel. Keep in suitable, closed containers for disposal.

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

Provide appropriate exhaust ventilation. Normal measures for preventive fire protection.

### Conditions for safe storage

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

Recommended storage temperature: -20 °C

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection:** For prolonged or repeated contact use protective gloves.

**Eye protection:** Chemical safety goggles

**Hygiene measures:** General industrial hygiene practice.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Z-YVAD-FMK
<b>Appearance:</b>	Lyophilized solid
<b>pH:</b>	Not available
<b>Water Solubility:</b>	Not available
<b>Specific Gravity (g/ml):</b>	Not available
<b>Boiling Point (°C):</b>	Not available
<b>Melting Point (°C):</b>	Not available
<b>Flash Point (°C):</b>	Not available
<b>Ignition Temperature (°C):</b>	Not available

## SECTION 10: STABILITY AND REACTIVITY

Property	Z-YVAD-FMK
<b>Chemical stability</b>	Stable under recommended storage conditions
<b>Conditions to avoid:</b>	Not available
<b>Materials to avoid:</b>	Not available
<b>Hazardous decomposition products:</b>	Carbon oxides, nitrogen oxides, halogenated compounds

## SECTION 11: TOXICOLOGICAL INFORMATION

### Z-YVAD-FMK

**Acute toxicity:** no data available

**Irritation and corrosion:** no data available

**Sensitisation:** 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.

### Potential Health Effects:

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

**Skin:** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes:** May cause eye irritation.

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## SECTION 12: ECOLOGICAL INFORMATION

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### Z-YVAD-FMK

**Elimination information (persistence and degradability):** no data available

**Ecotoxicity effects:** no data available

**Further information on ecology:** no data available

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**Product:** Offer surplus and non-recyclable solutions to a licensed disposal company. Observe all federal, state, and local environmental regulations.

**Contaminated packaging:** Dispose of as unused product.

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## SECTION 14: TRANSPORT INFORMATION

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### Z-YVAD-FMK

**DOT (US):** Not dangerous goods

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods

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## SECTION 15: REGULATORY INFORMATION

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### Z-YVAD-FMK

**OSHA Hazards:** no known OSHA hazards

**DSL Status:** All components of this product are on the Canadian DSL list.

**SARA 302 Components:** SARA 302: 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:** No SARA hazards

**Massachusetts Right To Know Components:** No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components:** No components are subject to the Pennsylvania Right to Know Act.

**New Jersey Right To Know Components:** No components are subject to the New Jersey Right to Know Act.

**California Prop. 65 Components**

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

**EU regulations:** no data available

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## SECTION 16: OTHER INFORMATION

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### **OTHER INFORMATION:**

#### **PREPARATION INFORMATION:**

#### **DISCLAIMER:**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. BioVision, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.