Material Safety Data Sheet

MSDS created:



1 - Identification of substance and manufacturer

Axon catalogue ID CAS number 2159 187389-52-2

Product name Z-VAD-FMK

IUPAC name (5S,8S,11S)-methyl 11-(2-fluoroacetyl)-5-

isopropyl-8-methyl-3,6,9-trioxo-1-phenyl-2-oxa-4,7,10-triazatridecan-13-oate

Manufacturer's name Axon Medchem BV Batch no. Street address

caspase

Biotech Center UMCG, Hanzeplein 1

Postal Code City 9713 GZ Groningen Province

Country of origin Groningen The Netherlands

Emergency Telephone number

+31 (0)50 311 8007 Manufacturer's fax number +31 (0)50 3600390

Manufacturer's email address info@axonmedchem.com Manufacturer's website

http://www.axonmedchem.com

2 - Information on ingredients					
Hazardous ingredient	CAS number	Concentration	LD-50 of ingredient		
Z-VAD-FMK	187389-52-2	98.2%	No data available		

irreversible

Z-VAD-FMK

B - Hazards identification

Route of entry Eye contact, Inhalation, Digestion Symptoms of Exposure

No data available - First Aid Measures Skin contact

Potential health effects

May be harmful by inhalation, ingestion or eye and/or skin absorption. May cause irritation to eye, mucous membranes, upper respiratory system, and/or skin. The toxicological properties of this compound have not been fully tested. For research purposes

Wash with copious amounts of water for at least 15 minutes. Remove contaminated clothing.

Eve contact

Application

inhibitor

Cell-permeable.

Rinse with copious amounts of water for at least15 minutes.

Inhalation

Transfer victim to an un-effected area and monitor breathing. If breathing becomes difficult administer oxygen. If breathing stops give artificial respiration.

Ingestion

Rinse mouth out with copious amounts of water, contact a physician.

5 - Fire Fighting Measures

Fire fighting instructions Use extinguishing media appropriate to the surrounding fire conditions. Wear protective clothing to prevent contact with

Flamable No data available Flashpoint (°C) No data available Hazardous combustion products May emit toxic gasses like carbon

US EPA CAA, CWA, TSCA

EPA CWA NPDES - No

EPA CAA - No

EPA TSCA - No

CA PROP 65 - No

monoxide (CO), carbon dioxide (CO2), hydrochloric acid (HCI), nitrogen oxide upon thermal decomposition.

skin,eyes, and respiratory system.

6 - Accidental Release Measures

Leak and spill procedures

Wear appropriate protective clothing. Vacuum or sweep up dry material and dispose in an appropriate container as described under Disposal Conditions. Avoid raising dust. Absorb solutions with finely-powdered liquid-binding material. After removal, ventilate and decontaminate surfaces and equipment with alcohol. Dispose of contaminated materials according to section 13.

7 - Handling and Storage

Handling procedures and equipment

Avoid inhalation, contact with eyes, skin and clothing. Wear appropriate protective clothing. Avoid repeated and/or prolonged exposure. Use in a chemical fume hood, with an independent air supply

Storage requirements

472.89

Store in a properly sealed container under the storage conditions indicated on the label

otoro a propori	, coalea collianioi al	
8 - Exposure (Control / Personal	Protection

	Exposure limits	Protection of hands/skin	Protection of eyes	Protection of respiratory system
	No data available	Chemical resistant gloves and lab coat	Appropriate safety glasses	Handle in fume hood. Prevent inhalation
9 - Physical and chemical properties				
	Batch molecular formula	Appearance	Chemical purity	Solubility in water (mg/mL)
	C22H30FN3O7.0.3H2O	White solid	98.2%	0

C22H30FN3O7.0.3H2O Batch MW

Melting point 10 - Stability and reactivity

Optical purity (ee)

US EPA SARA Title III

Sec.302 (EHS) - No

Sec.302 (EHS) - No

Sec.313 (TRI) - No

Sec.110 - No

Stable under normal handling conditions.

May emit toxic gasses like carbon monoxide (CO), carbon dioxide (CO2), hydrochloric acid (HCI), nitrogen oxide upon thermal decomposition.

Conditions and materials to avoid Protect from light and heat. Avoid strong oxidizing agents.

11 - Toxicological information

Toxicity Carcinogenicity Mutagenicity Teratogenicity No data available No data available No data available No data available

12 - Ecological information

Treat as potentially toxic. Runoff from fire control or dilution with water may cause pollution.

13 - Disposal considerations

Treat as potentially toxic. Dispose in accordance with local, state, and federal regulations

14. - Transport Information

14 - Hallsport illiorination					
(US) DOT shipping name	IATA class	Applicable HS class	Transportation (Land/Sea/Air)		
No data available	No data available	2942.00.0000	Non-hazardous		

15 - Regulatory Information

Hazardous ingredient CAS number Z-VAD-FMK 187389-52-2

European risk and saftey phrases

R26/27/28: Very toxic by inhalation, in contact with skin and if swallowed R48: Danger of serious damage to health by prolonged exposure S22 - Do not breathe dust S24/S25 - Avoid any inhalation, contact with skin and eyes.

S36/S37/S39 - Wear suitable protective clothing, gloves and eye/face protection

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

16 - Other information

The above information is believed to be accurate and represents the best information currently available to us, but does not purport to be complete.

The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

For research use only by trained personnel

CAUTION: SUBSTANCE NOT FULLY TESTED