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# MATERIAL SAFETY DATA SHEET

EMERGENCY # FOR NATIONAL RESPONSE CENTER (800) 424-8802

Prepared 3/21/05

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SECTION 1. CHEMICAL IDENTIFICATION Product Name: **MitoCasp™**

Part No: 5029 and 5030

Components:

1. Mitochondria Membrane Potential Dye (Cationic Dye).....Part # 4015
2. 1X Dilution Buffer.....Part # 3032
3. FAM-VAD-FMK (Poly Caspase).....Part # 8001
4. 10 X Wash Buffer.....Part # 3026

## Section 1 - Product

1. Part# 4015 Mitochondria Membrane Potential Dye (Cationic Dye)  
TETRAMETHYLRHODAMINE ETHYLESTER PERCHLORATE
2. FAM-VAD-FMK: 6-Carboxyfluorescein-Val-Ala-Asp-Fluoromethyl Ketone
3. 1X Dilution Buffer: N/A
4. 10X Wash Buffer: N/A

## Section 2 - Composition/Information on Ingredient

1. Substance Name : Mitochondria Membrane Potential Dye TETRAMETHYLRHODAMINE  
ETHYLESTER PERCHLORATE CAS # 115532  
Formula C<sub>26</sub>H<sub>27</sub>CIN<sub>2</sub>O<sub>7</sub>
2. FAM-VAD-FMK: 6-Carboxyfluorescein-Val-Ala-Asp-Fluoromethyl Ketone CAS# N/A  
Formula: C<sub>35</sub> H<sub>34</sub> FN<sub>3</sub> O<sub>11</sub>
3. 1X Dilution Buffer: N/A CAS# N/A  
Formula: N/A
4. 10X Wash Buffer: N/A CAS# N/A  
Formula: N/A

## Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Harmful by inhalation and if swallowed. Irritating to eyes and skin.

HMIS RATING

HEALTH: 1

For additional information on toxicity, please refer to Section 11.

## Section 4 - First Aid Measures

ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION EXPOSURE

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

DERMAL EXPOSURE

In case of contact, immediately wash skin with soap and copious amounts of water.

EYE EXPOSURE

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

## **Section 5 - Fire Fighting Measures**

### FLASH POINT

N/A

### AUTOIGNITION TEMP

N/A

### FLAMMABILITY

N/A

### EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

### FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s): Emits toxic fumes under fire conditions.

## **Section 6 - Accidental Release Measures**

### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

### METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

## **Section 7 - Handling and Storage**

### HANDLING

User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

### STORAGE

Suitable: Keep tightly closed.

Store at -20°C

## **Section 8 - Exposure Controls / PPE**

### ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

### PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Wear dust mask.

Hand: Protective gloves.

Eye: Chemical safety goggles.

### GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

## **Section 9 - Physical/Chemical Properties**

Appearance Physical State: Solid

## **Section 10 - Stability and Reactivity**

### STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Nitrogen oxides Carbon monoxide, Carbon dioxide.

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

## **Section 11 - Toxicological Information**

### ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled or swallowed.

Ingestion: May be harmful if swallowed.

#### **SIGNS AND SYMPTOMS OF EXPOSURE**

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

#### **Section 12 - Ecological Information**

No data available.

#### **Section 13 - Disposal Considerations**

##### **APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION**

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

#### **Section 14 - Transport Information**

DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

#### **DISCLAIMER**

For R&D use only. Not for drug, household or other uses.

#### **WARRANTY**

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