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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: **Apo 3 HTS**

Part No: 5010, 5012 and 5013

Components:

1. 1 vial Caspase 3/7 detection reagent: Part# 4005
2. 1 Bottle 1X Lysis Buffer: 12mL Part# 3005

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**Part#: 4005 Caspase 3/7 detection reagent**

## Section 1 - Product

Product Name: (z DEVD)<sub>2</sub>-Rhodamine 110.

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## Section 2 - Composition/Information on Ingredient

Substance Name: (z DEVD)<sub>2</sub>-Rhodamine 110

CAS # None

Formula (z-Asp-Glu-Val-Asp)<sub>2</sub> Rhodamine 110

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## Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Caution: Avoid contact and inhalation.

HMIS RATING

HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0

NFPA RATING

HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0

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.

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

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.

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### **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.

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### **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

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### **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.

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

Appearance Physical State: Solid

Property Value At Temperature or Pressure

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### **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.

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.

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## **Section 12 - Ecological Information**

No data available.

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## **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.

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## **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.

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**Part#: 3005**

## **Section 1 - Product**

Product Name : Lysis Buffer

## **Section 2 - Composition/Information on Ingredient**

Substance Name: Lysis Buffer

CAS None

Formula: Proprietary

Synonyms None

RTECS Number: None

## **Section 3 - Hazards Identification**

### EMERGENCY OVERVIEW

Harmful.

Harmful if swallowed. Risk of serious damage to eyes.

### HMIS RATING

HEALTH: 2

FLAMMABILITY: 1

REACTIVITY: 0

### NFPA RATING

HEALTH: 2

FLAMMABILITY: 1

REACTIVITY: 0

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 immediately.

##### **INHALATION EXPOSURE**

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

##### **DERMAL EXPOSURE**

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

##### **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 TO BE FOLLOWED IN CASE OF LEAK OR SPILL**

Evacuate area.

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

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

##### **METHODS FOR CLEANING UP**

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

##### **ENVIRONMENTAL PRECAUTION(S)**

Avoid contaminating water supply. Do not allow material to enter drains or water courses.

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

##### **HANDLING**

User Exposure: Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

##### **STORAGE**

Suitable: Keep tightly closed..

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

Safety shower and eye bath. Mechanical exhaust required.

##### **PERSONAL PROTECTIVE EQUIPMENT**

Respiratory: Government approved respirator.

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.  
GENERAL HYGIENE MEASURES  
Wash thoroughly after handling.

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

Appearance Physical State: Clear liquid

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

#### STABILITY

Stable: Stable.

Materials to Avoid: Strong acids, Strong bases, Strong oxidizing agents.

#### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: 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: Causes severe eye irritation.

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

Ingestion: 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.

#### IRRITATION DATA

Eyes

Rabbit

0.01 ml

Remarks: Severe irritation effect

Eyes

Rabbit

0.01 ml

#### CHRONIC EXPOSURE – MUTAGEN

#### CHRONIC EXPOSURE - REPRODUCTIVE HAZARD

### **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: Environmentally hazardous substances, liquid, n.o.s.

UN#: 3082

Class: 9

Packing Group: Packing Group III

Hazard Label: Class 9  
PIH: Not PIH  
IATA  
Proper Shipping Name: Environmentally hazardous  
substance, liquid, n.o.s.  
IATA UN Number: 3082  
Hazard Class: 9  
Packing Group: III

#### **Section 15 - Regulatory Information**

##### **EU ADDITIONAL CLASSIFICATION**

Symbol of Danger: Xn  
Indication of Danger: Harmful.  
R: 22-41

Risk Statements: Harmful if swallowed. Risk of serious damage to eyes.

S: 26-36/39

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and eye/face protection.

##### **US CLASSIFICATION AND LABEL TEXT**

Indication of Danger: Harmful.

Risk Statements: Harmful if swallowed. Risk of serious damage to eyes.

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear

suitable protective clothing and eye/face protection.

##### **CANADA REGULATORY INFORMATION**

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

##### **DISCLAIMER**

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

##### **WARRANTY**

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