

**Order  
Number**

**Customer  
Number**

## 1. Product and Company Identification

<b>Supplier</b>	Manufactured by EMD Biosciences, Inc. 10394 Pacific Center Court San Diego, CA 92121 (858)450-5558/(800)854-3417 FAX: (858)453-3552	<b>Catalog #</b>	539134
		<b>In Case of Emergency</b>	<b>Call Chemtrec®</b> <b>(800)424-9300 (within U.S.A.)</b> <b>(703)527-3887 (outside U.S.A.)</b>

**Product name** Protease Inhibitor Cocktail Set III

## 2. Composition and Information on Ingredients

<u>Ingredient Name</u>	<u>CAS No.</u>	<u>Product No.</u>	<u>EU Symbol</u>	<u>R-Phrases</u>
Dimethyl Sulfoxide	67-68-5	RC112	Xi	R36/38

**Note:** See section 8 for occupational exposure limits and section 11 for LC50/LD50 information.

## 3. Hazards Identification

<b>Primary Hazards and Critical Effects</b>	: RC112	CAUTION! MAY CAUSE EYE AND SKIN IRRITATION. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
<b>Physical/Chemical hazards</b>	:	Not applicable
<b>Human Health Hazards</b>	: RC112	Irritating to eyes and skin.
<b>Environmental Hazards</b>	:	Not applicable

## 4. First Aid Measures

<b>Inhalation</b>	: RC112	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention
<b>Ingestion</b>	: RC112	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
<b>Skin Contact</b>	: RC112	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
<b>Eye Contact</b>	: RC112	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
<b>Notes to Medical Doctor</b>	:	Not available.

## 5. Fire-Fighting Measures

<b>Extinguishing Media</b>	: Use foam or all purpose dry chemicals to extinguish.
<b>Fire-Fighting Procedures</b>	: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
<b>Fire/Explosion Hazards</b>	: Not applicable.
<b>Hazardous Decomposition Products</b>	: These products are carbon oxides (CO, CO <sub>2</sub> ), sulfur oxides (SO <sub>2</sub> , SO <sub>3</sub> ...).

## 6. Accidental Release Measures

Personal Precautions	:	Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).
Environmental Precautions and Clean-up Methods	:	If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waterways.

Note: See section 1 for emergency contact information and section 13 for waste disposal.

## 7. Handling and Storage

Handling	:	RC112	Avoid contact with eyes, skin and clothing. Wash thoroughly after handling
Storage	:		Keep container tightly closed. Keep container in a cool, well-ventilated area.
Packaging Materials	:		Use original container.

## 8. Exposure Controls and Personal Protection

Occupational Exposure Limits			
<u>Ingredient Name</u>		<u>Occupational Exposure Limits</u>	
RC112		Not available.	
Engineering Controls	:	RC112	No special containment is required. Local exhaust ventilation should be provided
Personal Protective Equipment			
Respiratory System	:	RC112	Use appropriate respiratory protection if there is the potential to exceed the exposure limit(s).
Skin and Body	:	RC112	Work uniform or laboratory coat.
Hands	:	RC112	Use chemical resistant, impervious gloves. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits).
Eyes	:	RC112	Safety glasses. Goggles, face shield, or other full-face protection if potential exists for direct exposure to aerosols or splashes.

## 9. Physical and Chemical Properties

### Kit Components

5 x 1ml Protease Inhibitor Cocktail: 100mM AEBSF, HCl, 80uM Aprotinin, 5mM Bestatin, 1.5mM E-64, 2mM Leupeptin, Hemisulfate and 1mM Pepstatin A. Supplied in Dimethyl Sulfoxide (RC112)

Flash Point  
Not available.

## 10. Stability and Reactivity

Stability	:	RC112	The product is stable.
Conditions and Materials to Avoid	:	RC112	Reactive with oxidizing agents, reducing agents, acids.
Hazardous Decomposition Products	:		Not available.

## 11. Toxicological Information

Toxicity Data				
<u>Ingredient Name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>

RC112	LD50	14500 mg/kg	Oral	Rat
	LD50	7920 mg/kg	Oral	Mouse
	LD50	>10000 mg/kg	Oral	Dog
	LD50	40000 mg/kg	Dermal	Rat
	LD50	50000 mg/kg	Dermal	Mouse
	LDLo	>11000 mg/kg	Oral	Guinea pig

Routes of Entry : Absorbed through skin. Eye contact.

Acute Effects

Inhalation	:	Not available.
Ingestion	:	RC112 Practically non-toxic if swallowed.
Skin Contact	:	RC112 Moderately irritating to the skin. Practically non-toxic in contact with skin
Eye Contact	:	RC112 Moderately irritating to the eyes.

Chronic Effects

Adverse Effects	:	Not available.
Target Organs	:	Not available.
Carcinogenic Effects	:	Not available.
Mutagenic Effects	:	Not available.
Developmental and Teratogenic Effects	:	Not available.
Reproductive Effects	:	Not available.

Other Information : RC112 Repeated or prolonged exposure is not known to aggravate medical condition.

12. Ecological Information

Ecotoxicity Data

<u>Inгредиент Name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
RC112	Not available.	Not available.	Not available.

13. Disposal Consideration

Waste Handling and Disposal : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport Information

<u>Air</u>	
IATA-DGR Class	: Not controlled under IATA.
Packing Group	

15. Regulatory Information

EU Regulations

Hazard Symbol(s)	:	Xi
Risk Phrases	:	R36/38- Irritating to eyes and skin.
Safety Phrases	:	S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

US Regulations

Haz-Com Standard	:	Not controlled under the HCS (United States).
EPA	:	Not available.
State	:	Not available.

Canadian Regulations

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

## 16. Other Information

Validated by map on 4/15/2003.

Version : 1.0

Date of Printing : 4/15/2003.

### 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.*