

**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>	539164
		<b>In Case of Emergency</b>	<b>Call Chemtrec® (800)424-9300 (within U.S.A.) (703)527-3887 (outside U.S.A.)</b>

**Product name**      Proteasome Inhibitor Set I

## 2. Composition and Information on Ingredients

Ingredient Name	CAS No.	Product No.	EU Symbol	R-Phrases
MG-132	133407-82-6	RC2140	-	-
Lactacystin, Synthetic		RC2480	-	-
Proteasome Inhibitor I		RC2590	-	-

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

## 3. Hazards Identification

**Primary Hazards and Critical Effects** : RC2140, RC2480, RC2590      No specific hazard.

**Physical/Chemical hazards** :      Not applicable.

**Human Health Hazards** :      Not applicable.

**Environmental Hazards** :      Not applicable.

## 4. First Aid Measures

<b>Inhalation</b>	: RC2140, RC2480, RC2590	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Ingestion</b>	: RC2140, RC2480, RC2590	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.
<b>Skin Contact</b>	: RC2140, RC2480, RC2590	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>	: RC2140, RC2480, RC2590	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, CO2), nitrogen oxides (NO, NO2...), sulfur oxides (SO2, SO3...).

## 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** : RC2140, RC2480, RC2590 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

#### Ingredient Name

RC2140  
RC2480  
RC2590

#### Occupational Exposure Limits

Not available.  
Not available.  
Not available.

- Engineering Controls** : RC2140, RC2480, RC2590 No special containment is required. Local exhaust ventilation should be provided.

### Personal Protective Equipment

- Respiratory System** : RC2140, RC2480, RC2590 Use an approved, properly fitted, HEPA filter cartridge respirator, or a respirator of greater protection if there is the potential to exceed the exposure limit(s).
- Skin and Body** : RC2140, RC2480, RC2590 Work uniform or laboratory coat.
- Hands** : RC2140, RC2480, RC2590 Use chemical resistant, impervious gloves. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits). Appropriate techniques should be used to remove potentially contaminated clothing.
- Eyes** : RC2140, RC2480, RC2590 Safety glasses. Goggles, face shield, or other full-face protection if potential exists for direct exposure to dust.

## 9. Physical and Chemical Properties

### Kit Components

426100: 1 x 200 ug Lactacystin, Synthetic (RC2480)  
474790: 1 x 1 mg MG-132 (RC2140)  
539160: 1 x 1 mg Proteasome Inhibitor I (RC2590)

### Flash Point

Not available.

## 10. Stability and Reactivity

- Stability** : RC2140, RC2480, RC2590 The product is stable.
- Conditions and Materials to Avoid** : Not available.
- 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>
RC2140	Not available.	Not available.	Not available.	Not available.
RC2480	Not available.	Not available.	Not available.	Not available.
RC2590	Not available.	Not available.	Not available.	Not available.

**Routes of Entry** : Not available.

### Acute Effects

<b>Inhalation</b>	:	Not available.
<b>Ingestion</b>	:	Not available.
<b>Skin Contact</b>	:	Not available.
<b>Eye Contact</b>	:	Not available.

### Chronic Effects

<b>Adverse Effects</b>	:	Not available.
<b>Target Organs</b>	:	Not available.
<b>Carcinogenic Effects</b>	:	Not available.
<b>Mutagenic Effects</b>	:	Not available.
<b>Developmental and Teratogenic Effects</b>	:	Not available.
<b>Reproductive Effects</b>	:	Not available.

**Other Information** : RC2140, RC2480, RC2590 Repeated or prolonged exposure is not known to aggravate medical condition.

## 12. Ecological Information

### Ecotoxicity Data

<u>Ingredient Name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
RC2140	Not available.	Not available.	Not available.
RC2480	Not available.	Not available.	Not available.
RC2590	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

### Air

**IATA-DGR Class** : Not controlled under IATA.

### Packing Group

## 15. Regulatory Information

### EU Regulations

<b>Hazard Symbol(s)</b>	:	-
<b>Risk Phrases</b>	:	This product is not classified according to the EU regulations.
<b>Safety Phrases</b>	:	Not applicable.

### US Regulations

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

### Canadian Regulations

<b>WHMIS</b>	:	Not controlled under WHMIS (Canada).
<b>CEPA</b>	:	No products were found.
<b>Provincial</b>	:	No products were found.

## 16. Other Information

Validated by jew on 12/5/2003.

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### Notice to Reader

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*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. \*\*This product is intended for research use only.\*\**