

# Material Safety Data Sheet

**Product Number:** 05206758001  
**Catalogue Number:** 1235-01  
**Product Name:** Celase<sup>®</sup> GMP

Page 1 of 4

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

<b>Product name:</b>	<b>Celase GMP</b>
<b>Part number:</b>	<b>05206758001</b>
<b>Business area:</b>	<b>Cytori Therapeutics, Inc.</b>
<b>Product line:</b>	<b>Not applicable.</b>
<b>Instrument type:</b>	<b>Not applicable.</b>
<b>Supplier:</b> Cytori Therapeutics, Inc. 3020 Callan Road San Diego, CA 92121	<b>Emergency telephone number:</b> CHEMTREC: 1-800-424-9300 (U.S. or Canada) 1-703-527-3887 (International)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %	OSHA PEL:	OSHA STEL:	ACGIH TLV:	ACGIH STEL:
Proteolytic enzyme blend	N/A	N/A	N/A	N/A	N/A	N/A

## 3. HAZARDS IDENTIFICATION

<b>Emergency Overview</b>	
<b>NFPA Ratings:</b> Health= 2 Flammability= 0 Reactivity= 0 Special =H, S	
<b>Special Definitions:</b> A=Allergen CA=Carcinogen CO=Corrosive F=Flammable H=Harmful I=Irritant Ox=Oxidizer PB=Potential Biohazard R=Reproductive S=Sensitizer T=Toxic T+=Highly Toxic W=Water Reactive	
<b>Principle routes of exposure:</b>	Ingestion, skin and/or eye contact.
<b>Inhalation:</b>	Inhalation may cause sensitization by inhalation and skin contact. May cause irritation of respiratory tract.
<b>Ingestion:</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Skin contact:</b>	Harmful in contact with skin. May cause sensitization by skin contact. May cause irritation in contact with skin.
<b>Eye contact:</b>	Contact with eyes may cause irritation.
<b>Sensitization:</b>	None.
<b>Medical conditions aggravated by exposure:</b>	Persons with pre-existing skin disorders or impaired liver, kidney and pulmonary function may be more susceptible to the effects of this material.
<b>Additional information:</b>	None.

## 4. FIRST AID MEASURES

<b>Inhalation:</b>	Consult a physician. Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
<b>Skin contact:</b>	Rinse with plenty of water. If skin irritation persists, consult a physician. Remove and wash contaminated clothing before re-use.
<b>Ingestion:</b>	Call a physician immediately. Do not induce vomiting without medical advice.
<b>Eye contact:</b>	Rinse immediately with plenty of water for at least 15 minutes and consult a physician.

# Material Safety Data Sheet

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**Catalogue Number:** 1235-01  
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Page 2 of 4

**Notes to physician:** None determined.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam.  
**Unusual hazards:** None known.  
**Special protective equipment for firefighters:** Wear self-contained breathing apparatus if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Use personal protective equipment. Evacuate personnel to safe areas.  
**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.  
**Methods for cleaning up:** Never return spills in original containers for re-use. Sweep up or vacuum (if powder) or soak up with inert absorbent material (if liquid), then place into a suitable clean, dry, closed container, and label for disposal.

## 7. HANDLING AND STORAGE

**Handling:** Protect from contamination. Wear personal protective equipment.  
**Storage:** No special precautions required

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures:** Ensure adequate ventilation.  
**Personal Protective Equipment:**  
**Respiratory protection:** Respiratory protection is not required under normal use of this product. If respiratory protection is needed, follow the OSHA regulation, 29CFR1910.134. Always use a NIOSH approved respirator when necessary.  
**Hand protection:** Wear appropriate protective gloves to prevent skin contact. Replace torn or punctured gloves promptly.  
**Skin and body protection:** Wear appropriate body protection to prevent skin contact.  
**Eye protection:** Wear appropriate eye protection to prevent eye contact.  
**Hygiene measures:** Avoid contact with skin, eyes and clothing

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Boiling point/range:** No information available.  
**Melting point/range:** Not determined.  
**pH:** Not determined.  
**Physical state:** Solid.  
**Flash point:** No information available.  
**LEL (%):** Not determined.  
**UEL (%):** Not determined.

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions.  
**Polymerization:** Not applicable.  
**Hazardous decomposition products:** Carbon oxides.

# Material Safety Data Sheet

**Product Number:** 05206758001  
**Catalogue Number:** 1235-01  
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Page 3 of 4

<b>Materials to avoid:</b>	Strong acids and strong bases. Strong oxidising agents
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## 11. TOXICOLOGICAL INFORMATION

<b>Inhalation:</b>	No additional data available.
<b>Skin:</b>	No additional data available.
<b>Oral:</b>	No additional data available.
<b>Mutagenic effects:</b>	No data is available on the product itself.
<b>Reproductive toxicity:</b>	No data is available on the product itself.
<b>Carcinogenic effects:</b>	

## 12. ECOLOGICAL INFORMATION

<b>Bioaccumulation:</b>	Not determined.
<b>Aquatic toxicity:</b>	No data is available on the product itself.
<b>Ecotoxicity effects:</b>	No data is available on the product itself

## 13. DISPOSAL CONSIDERATIONS

<b>Waste from residues / unused products:</b> Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.
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## 14. TRANSPORT INFORMATION

<b>Is product hazardous to ship?</b>	No
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### DOT

**Proper shipping name:** None

**UN Number:** Not applicable    **Hazard class:** Not applicable    **Subsidiary risk:** Not applicable  
**Packing group:** Not applicable

### ICAO/IATA

**Proper shipping name:** None

**UN Number:** Not applicable    **Hazard class:** Not applicable    **Subsidiary risk:** Not applicable  
**Packing group:** Not applicable

## 15. REGULATORY INFORMATION

### U.S. Regulations:

**U.S. TSCA/SARA/CERCLA Regulatory Information:** The following chemicals are listed under the following TSCA/SARA/CERCLA lists: Collagenase

**U.S. Clean Air Act (CAA):** The following chemicals are listed under the following CAA lists:

**U.S. Clean Water Act (CWA):** The following chemicals are listed under the following CWA lists:

**California Safe Drinking Water and Toxic Enforcement Act (Prop 65):** The following chemicals are listed under the California Prop 65 list:

# Material Safety Data Sheet

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Page 4 of 4

## Canadian Regulations:

**Canada DSL Inventory List** - This product does not comply with DSL.

**Canada NDSL Inventory List** - This product does not comply with NDSL.

## 16. OTHER INFORMATION

**Reason for revision:** Not applicable.

**References:** None.

**Additional advice:** None.

**Prepared by:** Cytori Therapeutics, Safety and Environmental Personnel (Regulatory Affairs), MSDS

**Contact:** 877-470-8000.

The information, data and recommendations contained herein are based upon information believed by Cytori Therapeutics Inc ("Cytori"), after reasonable investigation and research, to be accurate; however, Cytori does not warrant the accuracy of this information. All materials and mixtures may present unknown hazards and should be used with caution. When necessary or appropriate, independent opinions regarding the risk of handling or exposure should be obtained from trained professionals. Cytori disclaims any warranty against patent infringement and the implied warranties of merchantability and fitness for a particular purpose. Customer's sole and exclusive remedy shall be replacement of the product or return of the product and refund of the purchase price, at Cytori's option. In no case shall Cytori be liable for incidental or consequential damages, including lost profits.

**End of Safety Data Sheet**