



# MATERIAL SAFETY DATA SHEET

## *KEMAMIDE® E ULTRA BEAD*

Version:	1
Date Of Issue:	02/29/2008
Date Printed:	09/3/2009

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### 1. PRODUCT AND COMPANY IDENTIFICATION

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**Product name :** KEMAMIDE® E ULTRA BEAD

**Chemical name:** Erucamide

**Use of substance/preparation:** Release agent. Chemical intermediate

**Supplier:** PMC Biogenix Inc.  
1231 Pope Street  
Memphis, TN 38108 USA

**Emergency telephone number:** CHEMTREC (24 hours) 800-424-9300

**Environmental, Health and Safety Department:** 901-320-5883

**Customer Service:** 800-641-2152

**Prepared by** Product Safety Department Date of Issue: 02/29/2008

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### 2. HAZARDS IDENTIFICATION

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#### EMERGENCY OVERVIEW

NORMAL PRECAUTIONS COMMON TO SAFE MANUFACTURING PRACTICE SHOULD BE FOLLOWED IN HANDLING AND STORAGE.  
USUAL HAZARDS ASSOCIATED WITH ORGANIC DUSTS. THE POSSIBILITY OF EXPLOSION EXISTS UNDER DUSTY CONDITIONS. AVOID DUSTING WHEN HANDLING AND AVOID ALL POSSIBLE SOURCES OF IGNITION (SPARK AND FLAME).  
MOLTEN PRODUCT MAY CAUSE THERMAL BURNS.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

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INGREDIENT	% BY WEIGHT
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13-Docosenamide, (Z)-  
CAS# 112-84-5



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### 4. FIRST AID MEASURES

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#### Swallowing

No emergency care anticipated. WHEN MOLTEN ONLY (molten product can cause thermal burns) - Obtain medical attention immediately.

#### Inhalation

Remove to fresh air.

#### Skin contact

Wash skin thoroughly with soap and water for at least 15 minutes. If redness or irritation occurs, seek medical attention. WHEN MOLTEN ONLY (molten product can cause thermal burns) - For contact with hot molten material, cool burned skin area by immersing in cold water or apply cold water.

#### Eye contact

Immediately flush eyes with water and continue washing for at least 15 minutes. If redness or irritation occurs, seek medical attention. WHEN MOLTEN ONLY (molten product can cause thermal burns) - Obtain medical attention immediately. Immediately flush eyes with water and continue washing for at least 15 minutes. If redness or irritation occurs, seek medical attention.

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### 5. FIRE-FIGHTING MEASURES

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**Flash point:** 428 °F 220 °C

Flammable limits

**Lower limit:** Not available

**Upper limit:** Not available

**Autoignition temperature:**

Not available

#### Hazardous combustion products

Burning can produce the following combustion products:

Carbon monoxide.

Carbon dioxide.

Oxides of nitrogen.

#### Special fire fighting procedures

Do not direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.

#### Special protective equipment for firefighters

Firefighters must be equipped to prevent breathing of vapors or products of combustion. Wear an approved self-contained breathing apparatus and protective clothing.

#### Extinguishing media

**Suitable:** Extinguish with:  
- dry chemical  
- water spray  
- CO2  
- foam  
- dry powder (ABC-powder)

**Unsuitable:** High volume water jet.

#### Unusual fire and explosion hazards

In case of a fire aside from the major combustion products carbon dioxide and carbon monoxide other harmful gases and vapors may be formed., Oxides of nitrogen.

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### 6. ACCIDENTAL RELEASE MEASURES

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### Personal precautions

Avoid dust formation., In case of occurrence of dust respiratory protective equipment required.

### Environmental precautions

This product is insoluble in water and will float on the surface., Prevent from entering sewer system or surface water., Disposal: see section 13

### Methods for cleaning up

Avoid dust formation.  
 Avoid dispersion of dust.  
 Sweep up and collect in a suitable container for disposal.  
 Sweep up using non-sparking equipment.  
 Eliminate sources of ignition.  
 Dispose of waste material in compliance with all federal, state, and local regulations.

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## 7. HANDLING AND STORAGE

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### HANDLING

#### Handling precautions

Keep container tightly closed., Avoid dispersion of dust in air., Do not get in eyes, on skin, on clothing., Use only in well ventilated areas., Do not breathe hot vapors.

### STORAGE

#### Storage requirements

Normal precautions common to good safety practice should be followed in storage., Store at ambient temperature., Repair all broken bags immediately.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### EXPOSURE LIMIT VALUES

<u>Component</u>	<u>Type</u>	<u>Value</u>	<u>Remark</u>
Particulates not otherwise regulated	TWA, OSHA	15.0 mg/m <sup>3</sup>	Total dust
	TWA, OSHA	5.0 mg/m <sup>3</sup>	Respirable fraction
	TWA - ACGIH	10.0 mg/m <sup>3</sup>	Total inhalable dust
	TWA - ACGIH	3.0 mg/m <sup>3</sup>	Respirable fraction

### PERSONAL PROTECTION

#### Respiratory protection

Dust respirator, if dusting conditions exist.

#### Hand protection / protective gloves

Neoprene, Rubber, Heat protective impervious gloves when handling molten product.

#### Eye protection

Safety glasses with side shields., Safety goggles., Personal protectives: WHEN MOLTEN ONLY., Splash-proof goggles, Full face shield.

#### Skin protection

Rubber or plastic apron, Use heat protective equipment (such as gloves, long sleeves, and aprons) when handling molten material.



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### ENGINEERING CONTROLS

#### Ventilation

Use local ventilation or engineering controls as needed to maintain personnel exposure below the exposure limits.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

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#### APPEARANCE

Physical state	Solid
Color	Off-white
Odor	Slight fatty
Odor threshold	Not available

#### OTHER PROPERTIES

Boiling point	> 550 °F
Melting point	167 - 185 °F
Solidification	Not available
pH	Not available
Specific gravity (H2O=1)	Not available
Density	~ 0.88 g/cm <sup>3</sup> at 25 °C 0.815 g/cm <sup>3</sup> at 130 °C
Vapor pressure	
Solubility in water	Insoluble
Solubility in organic solvents	No data available.
Partitioning coefficient	Not available
Flash point	428 °F 220 °C Method: Pensky-Martens closed cup ASTM D 93
Autoignition temperature	Not available
Upper explosion limits	Not available
Lower explosion limits	Not available
Percent volatiles	0 %(m)



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### 10. STABILITY AND REACTIVITY

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**Stability:** Stable under normal conditions.

**Stability - Conditions to avoid:**  
None known.

**Incompatible materials:**  
Strong oxidizing agents.

**Hazardous combustion products:**  
Burning can produce the following combustion products:  
Carbon monoxide.  
Carbon dioxide.  
Oxides of nitrogen.

**Hazardous polymerization:** Will not occur.

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### 11. TOXICOLOGICAL INFORMATION

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SWALLOWING  
Acute effects  
Low acute toxicity.

Test results  
**Acute toxicity:** LD50 Rats (Males)  
Result: > 10,000 mg/kg

SKIN ABSORPTION  
Acute effects  
Low acute toxicity.

INHALATION  
Acute effects  
Dust may cause irritation of the respiratory tract.

SKIN CONTACT  
Acute effects  
May cause slight irritation.

Test results  
**Skin irritation:** Species: Rabbit  
Result: Slight erythema, slight edema  
Classification: Not irritant  
Remark: 0,5 ml; occlusive

EYE CONTACT  
Acute effects  
May cause slight irritation.



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### 12. ECOLOGICAL INFORMATION

Not expected to be acutely toxic to aquatic organisms.

### 13. DISPOSAL CONSIDERATIONS

**General:** It is our opinion this product is not a RCRA hazardous waste. It is the generator's responsibility to make their own determination as to the RCRA status of waste they generate. We have not performed a Toxicity Characteristic Leachate Procedure (TCLP) on this product., Incinerate in a furnace where permitted under appropriate Federal, State, and local regulations.

**Non-cleaned packages**  
Subject completely emptied paper bags to paper recycling.

### 14. TRANSPORT INFORMATION

#### DOT Classification

This product is not regulated by DOT.

#### IMDG Classification

This product is not regulated by IMDG.

#### ICAO Classification

This product is not regulated by ICAO.

### 15. REGULATORY INFORMATION

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RO's) in 40CFR302.4.

Components present in this product at a level which could require reporting under the statute are:

\*\*\*\* NONE \*\*\*\*

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPO's) and release reporting based on Reportable Quantities (RO's) in 40CFR355 (used for SARA 302 and 304).

Components present in this product at a level which could require reporting under the statute are:

\*\*\*\* NONE \*\*\*\*

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

\*\*\*\* NONE \*\*\*\*

#### New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

Chemical name

CAS#

New Jersey TS Number



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EPA Hazard Categories (SARA 311, 312): None

### CHEMICAL INVENTORY

Canada: This product is on the DSL.  
Europe: This product is on the EINECS inventory. 204-009-2  
United States: This product is on the TSCA inventory.  
Australia: This product is on the AICS inventory.  
China: This product is on the IECSC Inventory.  
Japan: This product is on the ENCS inventory.  
Korea: This product is listed on the Existing Chemicals List (ECL).  
Philippines: The ingredients of this product are on the PICCS.

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## 16. OTHER INFORMATION

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### HMIS RATING

<b>Health: 1</b>	<b>Flammability: 1</b>	<b>Reactivity: 0</b>	<b>PPI:</b>
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STP	Standard temperature and pressure
W/W	
Weight/Weight	
0 (HMIS)	
1 (HMIS)	Slight hazard
2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

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