



**MATERIAL SAFETY DATA SHEET**  
**KEMAMIDE® OR 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® OR BEAD

**Chemical name:** Oleamide

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

**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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9-Octadecenamide, (Z)  
CAS# 301-02-0



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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:**            401 °F            205 °C

**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



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### 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.

## 7. HANDLING AND STORAGE

### 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.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE LIMIT VALUES

<u>Component</u>	<u>Type</u>	<u>Value</u>	<u>Remark</u>
Particulates not otherwise regulated	TWA, OSHA	15.0 mg/m3	Total dust
	TWA, OSHA	5.0 mg/m3	Respirable fraction
	TWA - ACGIH	10.0 mg/m3	Total inhalable dust
	TWA - ACGIH	3.0 mg/m3	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.

### 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

**OTHER PROPERTIES**

Boiling point	> 260 °C > 500 °F
Melting point	68 - 78 °C 154 - 172 °F
pH	Not available
Density	~ 0.89 g/cm <sup>3</sup>
Vapor pressure	
Solubility in water	Insoluble
Evaporation rate (Butyl Acetate=1)	Not available
Partitioning coefficient	Not available
Flash point	401 °F 205 °C Method: Pensky-Martens closed cup ASTM D 93
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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**GENERAL**

No information available.

**SWALLOWING**

Acute effects  
Low acute toxicity.

**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.

**EYE CONTACT**

Acute effects  
May cause slight irritation.

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**12. ECOLOGICAL INFORMATION**

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Not expected to be acutely toxic to aquatic organisms.

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**13. DISPOSAL CONSIDERATIONS**

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**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.

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**14. TRANSPORT INFORMATION**

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**DOT Classification**

This product is not regulated by DOT.

**IMDG Classification**

This product is not regulated by IMDG.



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### ICAO Classification

This product is not regulated by ICAO.

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## 15. REGULATORY INFORMATION

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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
9-Octadecenamide, (Z)	301-02-0	

EPA Hazard Categories (SARA 311, 312): None

### CHEMICAL INVENTORY

Canada: This product is on the DSL.  
Europe: This product is on the EINECS inventory. 206-103-9  
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: This product is on the PICCS.

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## 16. OTHER INFORMATION

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### HMIS RATING

Health: 1	Flammability: 1	Reactivity: 0	PPI:
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STP	Standard temperature and pressure
W/W	
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

Weight/Weight

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**THE OPINIONS EXPRESSED HEREIN ARE THOSE OF QUALIFIED EXPERTS WITHIN PMC BIOGENIX INC.. WE BELIEVE THAT THE INFORMATION CONTAINED HEREIN IS CURRENT AS OF THE DATE OF THIS SAFETY DATA SHEET. SINCE THE USE OF THIS INFORMATION AND OF THESE OPINIONS AND THE CONDITIONS OF USE OF THIS PRODUCT ARE NOT WITHIN THE CONTROL OF PMC BIOGENIX INC., IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THE PRODUCTS.**