



# SAFETY DATA SHEET

Issue Date 19-Jun-2014

Revision Date 21-May-2014

Version 1

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

|                           |                     |
|---------------------------|---------------------|
| Biogenix Product Code     | 10889; 10626; 10625 |
| SDS Code                  | KEMU                |
| Product Name              | Kemamide® U         |
| REACH registration number | 01-2119560613-41    |
| Formula                   | C18H35NO            |
| Molecular weight          | 281                 |

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

\*1= No

Use of the substance/preparation  
Intermediate

Uses advised against                      No information available

### 1.3. Details of the supplier of the safety data sheet

| Manufacturer       | Supplier           |
|--------------------|--------------------|
| PMC Biogenix, Inc. | PMC Biogenix, Inc. |
| 1231 Pope Street   | 1231 Pope Street   |
| Memphis, TN 38108  | Memphis, TN 38108  |
| USA                | USA                |

For further information, please contact

Contact Point                      Biogenix EMEA: 33 (0)3.91.83.71.71; FAX: 33 (0)3.91.83.71.92

### 1.4. Emergency telephone number

Emergency Telephone                      Chemtrec +1-703-527-3887

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture *Regulation (EC) No 1272/2008*

Classification according to 67/548/EEC  
*Full text of R-phrases: see section 16*

Hazard symbols  
Not dangerous

### 2.2. Label elements Product identifier

### 2.3. Other hazards

Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Full text of R-phrases: see section 16

Full text of H- and EUH-phrases: see section 16

### Section 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

##### Inhalation

Remove to fresh air. (Get medical attention immediately if symptoms occur.).

##### Skin Contact

Molten product can cause thermal burns. In case of burns, immediately cool affected skin for as long as possible with cold water. Wash off immediately with plenty of water for at least 15 minutes. (Get medical attention immediately if symptoms occur.).

##### Eye contact

Molten product can cause thermal burns. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. (Call a physician if irritation persists).

##### Ingestion

Molten product can cause thermal burns. Clean mouth with water and drink afterwards plenty of water. (Get medical attention immediately if symptoms occur.).

#### 4.2. Most important symptoms and effects, both acute and delayed

##### Symptoms

None known.

#### 4.3. Indication of any immediate medical attention and special treatment needed

##### Note to physicians

Treat symptomatically.

### Section 5: FIRE FIGHTING MEASURES

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

##### Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire

#### 5.2. Special hazards arising from the substance or mixture

Avoid creating dust. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Do not allow run-off from fire-fighting to enter drains or water courses.

**Hazardous combustion products** Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. Nitrogen oxides (NO<sub>x</sub>).

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

### Section 6: ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures****Personal precautions**

Ensure adequate ventilation, especially in confined areas. Avoid creating dust. Dust can form an explosive mixture with air.

**For emergency responders**

Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

See Section 12 for additional ecological information. The product is insoluble and floats on water. Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains.

**6.3. Methods and material for containment and cleaning up****Methods for containment**

Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**

Use personal protective equipment as required. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Avoid creating dust. Pick up and transfer to properly labeled containers.

**6.4. Reference to other sections**

See Section 12: ECOLOGICAL INFORMATION.

**Section 7: HANDLING AND STORAGE****7.1. Precautions for safe handling****Advice on safe handling**

Ensure adequate ventilation, especially in confined areas.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage, including any incompatibilities****Storage Conditions**

Keep container tightly closed in a dry and well-ventilated place.

**7.3. Specific end use(s)****Risk Management Methods (RMM)**

The information required is contained in this Material Safety Data Sheet.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters****Exposure Limits**

Exposure limits are listed below, if they exist.

**Derived No Effect Level (DNEL)****Predicted No Effect Concentration (PNEC)**



**8.2. Exposure controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations.

**Personal protective equipment**

**Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Hand Protection**

Heat resistant gloves are recommended when handling molten materials.

**Skin and body protection**

Wear protective gloves and protective clothing.

**Respiratory protection**

Use certified respiratory protection equipment meeting EU requirements(89/656/EEC, 89/686/EEC ), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

**Environmental exposure controls** Prevent product from entering drains.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

|                                      |   |                                    |                          |
|--------------------------------------|---|------------------------------------|--------------------------|
| <b>Physical state</b>                | Solid                                       | <b>Odor</b>                        | Slight characteristic    |
| <b>Appearance</b>                    | pellets, powder                             | <b>Odor threshold</b>              | No information available |
| <b>Color</b>                         | white to beige                              |                                    |                          |
| <b>Property</b>                      | <b>Values</b>                               | <b>Remarks • Method</b>            |                          |
| <b>pH</b>                            |   | No information available           |                          |
| <b>Melting point/freezing point</b>  | 68 - 78 °C / 154 - 174 °F                   |                                    |                          |
| <b>Boiling point / boiling range</b> | 260 °C / 550 °F                             |                                    |                          |
| <b>Flash point</b>                   | 205 °C / 401 °F                             | Pensky-Marten closed cup ASTM D 93 |                          |
| <b>Evaporation rate</b>              |   | No information available           |                          |
| <b>Flammability (solid, gas)</b>     |   | No information available           |                          |
| <b>Flammability Limit in Air</b>     |   |                                    |                          |
| Upper flammability limit:            |   | No information available           |                          |
| Lower flammability limit:            |   | No information available           |                          |
| <b>Vapor pressure</b>                |   | No information available           |                          |
| <b>Vapor density</b>                 |   | No information available           |                          |
| <b>Specific Gravity</b>              |   | No information available           |                          |
| <b>Water solubility</b>              | Insoluble in water                          |                                    |                          |
| <b>Solubility(ies)</b>               |   | No information available           |                          |
| <b>Partition coefficient</b>         |   | No information available           |                          |
| <b>Autoignition temperature</b>      |   | No information available           |                          |
| <b>Decomposition temperature</b>     |   | No information available           |                          |
| <b>Kinematic viscosity</b>           |   | No information available           |                          |
| <b>Dynamic viscosity</b>             |   | No information available           |                          |
| <b>Explosive properties</b>          | Dust can form an explosive mixture with air |                                    |                          |
| <b>Oxidizing properties</b>          | No information available                    |                                    |                          |

**9.2. Other information**

|                         |                          |
|-------------------------|--------------------------|
| <b>Softening point</b>  | No information available |
| <b>Molecular weight</b> | 281                      |
| <b>VOC Content (%)</b>  | None                     |
| <b>Density</b>          | <1.0 g/cm <sup>3</sup>   |
| <b>Bulk density</b>     | No information available |

**Section 10: STABILITY AND REACTIVITY****10.1. Reactivity**

No data available.

**10.2. Chemical stability**

Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact None.  
Sensitivity to Static Discharge None.

**10.3. Possibility of hazardous reactions****Hazardous polymerization**

Hazardous polymerization does not occur.

**Possibility of Hazardous Reactions,**

None under normal processing.

**10.4. Conditions to avoid**

Avoid creating dust. Dust can form an explosive mixture with air. Extremes of temperature and direct sunlight.

**10.5. Incompatible materials**

Incompatible with oxidizing agents.

**10.6. Hazardous decomposition products**

Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. Nitrogen oxides (NO<sub>x</sub>).

**Section 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****Acute toxicity****Product Information****Inhalation**

Product does not present an acute toxicity hazard based on known or supplied information. Inhalation of dust in high concentration may cause irritation of respiratory system. No known effect based on information supplied.

**Eye contact**

Dust contact with the eyes can lead to mechanical irritation. Molten product can cause thermal burns.

**Skin Contact**

Molten product can cause thermal burns.

**Ingestion**

No data available.

**Unknown Acute Toxicity**

100% of the mixture consists of ingredient(s) of unknown toxicity.

| Chemical Name         | Oral LD50                  | Dermal LD50 | Inhalation LC50 |
|-----------------------|----------------------------|-------------|-----------------|
| 9-Octadecenamide, (Z) | >10 000 mg/kg (Rats, male) |             | > 2.8 mg/L      |

**Skin corrosion/irritation** (rabbits) edema erythema Non-irritating to the skin 0.5 ml; occlusive

**Serious eye damage/eye irritation** No information available

**Sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

Aspiration hazard No information available.

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

Not Likely.

### 12.4. Mobility in soil

#### **Mobility in soil**

No information available.

### 12.5. Results of PBT and vPvB assessment

No information available.

### 12.6. Other adverse effects

Avoid release to the environment

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### **Waste from Residues / Unused Products**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### **Contaminated packaging**

Do not reuse container. Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### **Waste codes / waste designations according to EWC / AVV**

Waste codes should be assigned by the user based on the application for which the product was used

## Section 14: TRANSPORT INFORMATION

### IMDG

#### **14.1 UN/ID No.**

Not regulated

#### **14.2**

#### **14.3**

#### **14.4**

#### **14.5**

#### **14.6**

#### **14.7**

#### **Flash point °C**

205

**RID**

|                |               |
|----------------|---------------|
| 14.1 UN/ID No. | Not regulated |
| 14.2           |               |
| 14.3           |               |
| 14.4           |               |
| 14.5           |               |
| 14.6           |               |

**ADR**

|                |               |
|----------------|---------------|
| 14.1 UN/ID No. | Not regulated |
| 14.2           |               |
| 14.3           |               |
| 14.4           |               |
| 14.5           |               |
| 14.6           |               |

**IATA**

|                           |                                     |
|---------------------------|-------------------------------------|
| 14.1                      |                                     |
| 14.2 Proper shipping name | Not a recommended mode of transport |
| 14.3                      |                                     |
| 14.4                      |                                     |
| 14.5                      |                                     |
| 14.6                      |                                     |

**Section 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

**International Inventories**

|               |          |
|---------------|----------|
| EINECS/ELINCS | Complies |
| TSCA          | Complies |
| AICS          | Complies |
| DSL/NDL       | Complies |
| ENCS          | Complies |
| KECL          | Complies |
| PICCS         | Complies |
| IECSC         | Complies |
| NZIoC         | Complies |

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List  
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
ENCS - Japan Existing and New Chemical Substances  
IECSC - China Inventory of Existing Chemical Substances  
KECL - Korean Existing and Evaluated Chemical Substances  
PICCS - Philippines Inventory of Chemicals and Chemical Substances  
AICS - Australian Inventory of Chemical Substances  
NZIoC - New Zealand Inventory of Chemicals

**15.2. Chemical safety assessment**

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No information available

|                                      |
|--------------------------------------|
| <b>Section 16: OTHER INFORMATION</b> |
|--------------------------------------|

**Full text of R-phrases referred to under sections 2 and 3**

No information available

|                      |                 |
|----------------------|-----------------|
| <b>Prepared By</b>   | PMC Group       |
| <b>Issue Date</b>    | 19-Jun-2014     |
| <b>Revision Date</b> | 21-May-2014     |
| <b>Revision Note</b> | Not Applicable. |

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**Disclaimer**

An SDS in compliance with article 31 of REACH Regulation (EC) n°1907/2006 is not obligatory. This SDS has been written in accordance with article 32 of same Regulation.

End of Safety Data Sheet