SAFETY DATA SHEET

Issue Date 19-Jun-2014 **Revision Date** 07-May-2018 **Version** 5

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

1.1. Product identifier

Biogenix Product Code 10889; 10626; 10625; 40406
SDS Code KEMU
Product Name **Kemamide® U**

REACH registration number: 01-2119560613-41 [Amides, C18 (unsaturated); EC#931-801-1]
Chemical Name 9-Octadecenamide; Oleamide
Formula C18 H35 NO
Molecular weight 281.4805 g/mol

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

Sold to the general public -
***1=** No

Use of the substance/preparation
SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

Uses advised against
No information available

1.3. Details of the supplier of the safety data sheet

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

Supplier
PMC Ouvrie SAS
44, Rue Albert Einstein
62220 Carvin
France
info.ouvrie@ouvrie.com

For further information, please contact

Contact Point Biogenix EMEA: 33 (0)3.91.83.71.71; FAX: 33 (0)3.91.83.71.92
E-mail address info.ouvrie@ouvrie.com

1.4. Emergency telephone number

Emergency Telephone Chemtrec +1-703-527-3887

Emergency Telephone - 24 Hour Emergency Phone Number	
Belgium	+(32)-28083237
Denmark	+(45)-69918573
France	+(33)-975181407
Germany	0800-181-7059; +(49)- 69643508409
Italy	800-789-767
Netherlands	+(31)-858880596
Poland	+(48)-223988029
Spain	900-868538
United Kingdom	+(44)-870-8200418

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008
This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

2.2. Label elements

Product identifier

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

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

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
9-Octadecenamide, (Z)	206-103-9	301-02-0	100	-	Sec 1

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. Dust can form an explosive mixture with air. 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 monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx).

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

The product is insoluble and floats on water. See section 12 for additional ecological information. 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	Take up mechanically, placing in appropriate containers for disposal. Use personal protective equipment as required. Clean contaminated surface thoroughly. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Avoid creating dust. Where possible allow molten material to solidify naturally.

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
Avoid generation of dust. Handle in accordance with good industrial hygiene and safety practice.

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)

Chemical Name	End Use	Inhalation	Oral	Dermal
9-Octadecenamide, (Z) 301-02-0	Workers			

Chemical Name	End Use	Inhalation	Oral	Dermal
9-Octadecenamide, (Z) 301-02-0	Consumer use			

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

Physical state Solid

Appearance Molten, pellets, powder

Color white to beige

Odor Slight characteristic

Odor threshold No information available

Property	Values	Remarks • Method
pH		Not applicable
Melting point / freezing point	68 - 78 °C / 154 - 174 °F	
Boiling point / boiling range	260 °C / 550 °F	
Flash point	205 °C / 401 °F	Pensky-Marten closed cup ASTM D 93
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limit in Air		
Upper flammability limit:		No information available
Lower flammability limit:		No information available
Vapor pressure		negligible
Vapor density		No information available
Specific Gravity		No information available
Water solubility	Insoluble in water	
Solubility(ies)		No information available
Partition coefficient		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available

Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	Dust can form an explosive mixture with air
Oxidizing properties	Not applicable

9.2. Other information

Softening point	No information available
Molecular weight	281.4805 g/mol
VOC Content (%)	No information available
Density	<1.0 g/cm3 @ 25 ºC
Bulk density	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	Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

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

Strong oxidizing agents.

10.6. Hazardous decomposition products

None under normal use conditions.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Product Information	Product does not present an acute toxicity hazard based on known or supplied information.
Inhalation	Inhalation of dust in high concentration may cause irritation of respiratory system. No known effect based on information supplied. Vapors may be irritating to eyes, nose, throat, and lungs.
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 0 % 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)		

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

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 Not applicable.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

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

Chemical Name	Algae/aquatic plants	Fish	Crustacea
9-Octadecenamide, (Z)		1000: 96 h Cyprinodon variegatus mg/L LC50 semi-static	1000: 96 h Mysidopsis bahia mg/L LC50

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

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

Chemical Name	PBT and vPvB assessment
9-Octadecenamide, (Z)	Not applicable

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 regulated
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

National regulations

Germany

Water hazard class (WGK) 1 (VwVwS Anhang 2, 3748)

European Union

International Inventories

EINECS/ELINCS	Complies or Exempt
TSCA	Complies
AICS	Complies
DSL/NDSL	Complies
ENCS	Complies
KECL	Complies
PICCS	Complies
IECSC	Complies
NZIoC	Complies
TCSI	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - 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
TCSI - Taiwan Chemical Substance Inventory

15.2. Chemical safety assessment

No information available

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet
SEC. 1 Section 1

Key literature references and sources for data
Fatty Amides Consortium
NIH US National Library of Medicine
NIST Standard Reference Database

Prepared By PMC Group

Issue Date 19-Jun-2014

Revision Date 07-May-2018

Revision Note (M)SDS sections updated, 1.

Disclaimer
An SDS in compliance with Regulation (EC) n°2015/830 is not obligatory. This SDS has been written in accordance with the Regulation.

End of Safety Data Sheet