Safety Data Sheet (SDS)

Revision 1 / Review Date: 05/07/2018

1. Chemical Product and Company Identification

Product Name:	Kemamide U
Distributed By:	HB Chemical 1665 Enterprise Parkway Twinsburg Oh 44087 Phone - 330-920-8023
MSDS Prepared By (w Suppliers Input):	HB Chemical
Chemical Name / Family:	Oleamide
CAS No.	301-02-0
EC No.:	206-103-9
OSHA Status	Not Hazardous

For emergency health, safety, and environmental information, calls 330-920-8023
For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300

2. Hazard(s) Identification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200
Combustible dust.

Handle in accordance with good industrial hygiene and safety practice.
May form combustible dust concentration in air.
The product contains no substances which at their given concentration, are considered to be hazardous to health.

GHS Label elements, including precautionary statements:

Pictogram/Signal word/Hazard statement: None

3. Composition / Information on Ingredients

Chemical Name	CAS No	Weight-%	Trade Secret
9-Octadecenamide, (Z)	301-02-0	100	*

4. First Aid Measures

Inhalation: Remove to fresh air.

Eyes:	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 a least 15 minutes. If redness or irritation occurs, seek medical attention.
Skin:	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 burn) - For contact with hot molten material, cool burned skin area by immersing in cold water or apply cold water.
Ingestion:	Obtain medical attention. **WHEN MOLTEN ONLY** (molten product can cause thermal burns) - Obtain medical attention immediately.
Indication of any immediate medical attention and Special treatment needed:	Treat symptomatically.

5. Fire-Fighting Measures

Flash point:	205 ^{o}C (401 ^{o}F)
Suitable Extinguishing Media:	Dry chemical, water spray, CO2, foam.
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. Avoid creating dust. Dust can form an explosive mixture with air. Thermal decomposition can lead to release of irritating and toxic gases and vapors.
Hazardous Combustion Products:	Carbon monoxide; Carbon dioxide; Oxides of nitrogen.
Special protective equipment for firefighting:	Firefighters must be equipped to prevent breathing of vapors or products of combustion. Wear an approved self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

Steps to be taken in case material is spilled:	Ensure adequate ventilation, especially in confined areas. Avoid dust formation. Avoid dispersion of dust. Sweep up and collect in suitable container for disposal.
Environmental Precautions:	This product is insoluble in water and will float on the surface. 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.
Waste Disposal:	Reclaim or dispose of in accordance with local, state, and federal regulations

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 solidly naturally.

7. Handling and Storage:

Handling:	Avoid breathing dust. Avoid dispersion of dust to reduce fire and explosion potential.
Storage:	Keep containers tightly closed in a dry, cool and well-ventilated place.
Incompatible materials:	Strong oxidized agents.

8. Exposure Controls / Personal Protection

Control parameters

Exposure Guidelines Exposure limits are listed below, if they exist.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	PMC OEL
Dust DUST	TWA: 10 mg/m³ Inhl TWA: 3 mg/m³ Resp	TWA: 5 mg/m³ Resp TWA: 15 mg/m³ Total 29CFR1910.1000	-	-

Engineering Controls:	Showers, Eyewash stations, Ventilation systems.
Exposure Limit values:	
Respiratory Protection:	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Protective Gloves:	Neoprene, heat protective impervious gloves when handling molten products.
Eye Protection:	Wear safety glasses with side shields.
Skin and Body Protection:	Heat resistant gloves are recommended when handling molten Material.

9. Physical and Chemical Properties

Physical state	Solid		
Appearance	Molten, pellets, powder	**Odor**	Slight characteristic
Color	white to beige	**Odor threshold**	No information available

Property	**Values**	**Remarks • Method**
pH	No information available	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	No information available	negligible
Vapor density	No information available	
Specific Gravity	No information available	
Water solubility	Insoluble in water	
Solubility in other solvents	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	

Other Information

Softening point	No information available
Molecular weight	281.4805 g/mol
VOC Content (%)	No information available
Density	<1.0 g/cm3 @ 25 °C
Bulk density	No information available
Minimum ignition energy (MIE)	389 mJ [Powder]

10. Stability and Reactivity

Stability:	This product is stable under normal conditions.
Incompatibility (Materials to Avoid):	Strong oxidizing agents.
Conditions to Avoid:	Avoid creating dust. Dust can form an explosive mixture with air. Extremes of temperature and direct sunlight.
Hazardous Polymerization:	Hazardous polymerization will not occur
Hazardous decomposition products:	Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx)

11. Toxicological Information

Product Information:	Product does not present an acute toxicity hazard based on known or supplied information.
Eyes:	Dust contact with the eyes can lead to mechanical irritation. Molten product can cause thermal burns.

Skin Contact: Molten product can cause thermal burns.

Skin Absorption: Low acute toxicity.

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.

Swallowing: No data available.

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

Information on toxicological effects:

Symptoms: No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Non-irritating to the skin Slight erythema edema : 0.5 ml; occlusive (rabbits)
Sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Reproductive toxicity	No information available.
STOT - single exposure	No information available
STOT - repeated exposure	No information available
Aspiration hazard	Not applicable.

Numerical measures of toxicity - Product Information

12. Ecological Information

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

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
9-Octadecenamide, (Z) 301-02-0		1000: 96 h Cyprinodon variegatus mg/L LC50 semi-static		1000: 96 h Mysidopsis bahia mg/L LC50

Bioaccumulation: Not likely.

Persistence and degradability: No information available.

Comments: No information available.

13. Disposal Considerations

Reclaim or Dispose of material in accordance with all a lie able local, state, and federal regulations.

14. Transport Information

D.O.T. Shipping Name	Not regulated
Air - ICAO (international Civil Aviation Organization)	Not regulated
Sea - IMDG (International Maritime Dangerous Goods)	Not regulated

15 All of the components in the product are on the following Inventory lists

The classification and labeling information in this Safety Data Sheet should be viewed as provisional.

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

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). Any Substance regulated Title 40 of the Code of Federal Regulations, Part 372 is listed below, if it exists.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

CWA (Clean Water Act)
Any Substance regulated as a pollutant pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42) is listed below, if it exists.

CERCLA

Any Substance regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) is listed below, if it exists.

US State Regulations. Regulatory Information
California Proposition 65 This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations
U.S. EPA Label Information EPA Pesticide Registration Number Not applicable

16. Other Information

HMIS Rating

HEALTH:	1	**FLAMMABILITY:**	1	**PHYSICAL HAZARD:**	0	**PERSONAL PROTECTION:**	

The above information has been compiled from what we believe to be credible sources. To our knowledge the information is accurate and reliable, however, it is not guaranteed. Any recommendations issued by HB Chemical personnel or literature is derived from experience and by no means should be taken as fact or construed as a recommendation to violate of any law, regulation or patent. It is the users responsibility to determine the suitability of any HB supplied material in their application. The individual conditions of each customer are well outside of our control and we cannot be held liable for its functionality and use. Please contact our office should you need specific information beyond what is supplied above. As with all Chemical usage safety precautions beyond the stated are highly recommended.