

# MATERIAL SAFETY DATA SHEET

## ADDILIFE™ (M4, M5)

Safety Data Sheet according to Regulation (EC) N° 1907/2006 and its amendment

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### IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND THE COMPANY/ UNDERTAKING

#### Product Use:

For Biodegradable Polyolefin

#### PRODUCT Trade NAME:

AddiLife™ (M4, M5)

#### Tel:

#### Supplier

Eloquent Ideas  
11, ru d'Italie  
1204 Geneva  
Switzerland

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### HAZARDS IDENTIFICATION

#### Appearance:

Clear, translucent, or opaque strand/string.

#### Color

Varies

#### Physical state

Solid

#### Odor:

Sweet

#### Target organ effects:

N/A

#### Sensitization:

N/A



#### Emergency Overview

CAUTION! May cause eye/skin irritation. Burning produces obnoxious and toxic fumes. Avoid contact with skin and eyes. Avoid formation of dust and aerosols.



#### Potential health effects:

Eye contact: Contact with eyes may cause irritation.



#### Skin contact:

Substance may cause slight skin irritation.



#### Ingestion:

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.



#### Inhalation:

Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Low hazard for usual handling.



#### Specific hazards:

No information available



#### Flammability:

Fine dust dispersed in air may ignite.



#### Environmental precautions:

Not determined See Section 12 for more information.



**Personal Protective Equipment:** Not determined



#### NFPA rating:

Data not available Health: 1  
Flammability: 1  
Reactivity: 0  
Special: Not determined



#### HMIS classification:

Health: 1  
Flammability: 1  
Reactivity: 0

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### COMPOSITION /INFORMATION ON INGREDIENTS

Chemical Name/ Common name	CAS#	%	OSHA	ACGIH TLV
Synthetic Bio based Polymer	Proprietary	≥75	None	None
Natural Polymer	Proprietary	≥25	15 mg/M <sup>3</sup>	10 mg/M <sup>3</sup>

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### FIRST AID MEASURES

- **EYE CONTACT:**  
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.
- **SKIN CONTACT:**  
Rinse immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. Cool skin rapidly with cold water after contact with hot polymer.
- **INHALATION:**  
Move to fresh air. Call a physician immediately.
- **INGESTION:**  
Drink water as a precaution. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Call a physician immediately.
- **NOTES TO PHYSICIAN:**  
Treat symptomatically.

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### FIRE FIGHTING MEASURES

#### Flammability:

- ➔ **Auto ignition temperature:**  
388°C
- ➔ **Flammability Limits in Air:**
- ➔ **Flammable limits in air - lower (%):**  
Not applicable
- ➔ **Flammable limits in air - upper (%):**  
Not applicable
- ➔ **Suitable extinguishing media:**  
Foam. Water. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Alcohol resistant foams are preferred if available. General-purpose synthetic foams (including AFFF) or protein foams may function, but much less effectively.
- ➔ **Extinguishing media which must not be used for safety reasons:**  
No information available
- ➔ **Hazardous decomposition products:** Burning produces obnoxious and toxic fumes Aldehydes Carbon monoxide (CO) carbon dioxide (CO<sub>2</sub>)
- ➔ **Special protective equipment for firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
- ➔ **Under fire conditions:** Cool containers / tanks with spray water. Water mist may be used to cool closed containers.
- ➔ **Other information:** Fine dust dispersed in air may ignite. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.

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### ACCIDENTAL RELEASE MEASURES

- ➔ **Personal precautions:**  
Use personal protective equipment. See Section 8. Remove all sources of ignition. Avoid contact with skin and eyes. Sweep up to prevent slipping hazard.
- ➔ **Environmental precautions:**  
Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.
- ➔ **Methods for cleaning up:**  
Place into suitable container for disposal.

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### HANDLING AND STORAGE



#### Safe handling advice:

Avoid contact with skin and eyes. Avoid dust formation. Workers should be protected from the possibility of contact with molten material during fabrication. Low hazard for usual industrial or commercial handling. Use personal protective equipment. See Section 8.



#### Storage:

Store in cool place. Keep at temperatures below 104F (40 °C). No special restrictions on storage with other products



#### Precautions:

No special precautions required

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### EXPOSURE CONTROLS/ PERSONAL PROTECTION

#### Engineering measures:

Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

#### Control parameters:

None

### PERSONAL PROTECTIVE EQUIPMENT:



#### Eye protection:

Safety glasses with side-shields. Goggles.



#### Skin and body protection:

Impervious clothing.



#### Respiratory protection:

Respirator must be worn if exposed to dust. Wear respirator with dust filter. Respiratory protection is needed if any of the exposure limits in Section 2 are exceeded. Consult an industrial hygiene professional prior to respirator selection and use. Use a positive- pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. WARNING: Air purifying respirators do not protect workers in oxygen deficient atmospheres.



#### Hand protection:

Preventive skin protection.



#### Hygiene measures:

Avoid contact with skin, eyes and clothing.



#### Exposure limits:

See Section 2.

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### PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

- Clear, translucent, opaque, strand/string.

#### Color

- Varies

#### Physical state:

- Solid

#### Odor

- Sweet

#### PH

- Not applicable

- **Vapor pressure:** Not determined
- **Vapor density:** Not determined
- **Evaporation rate:** Not determined
- **Density:** 1.305 g/cc
- **Boiling point/range:** Not applicable
- **Decomposition temperature:** 482F (250C)
- **Melting point/range:** Not determined
- **Water solubility:** Insoluble
- **Solubility in other solvents:** None known

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### STABILITY AND REACTIVITY

- ➔ **Stability:**  
Stable under recommended storage conditions
- ➔ **Conditions to avoid:**  
Temperatures above 140F (60 °C).
- ➔ **Materials to avoid:**  
Oxidizing agents. Strong bases.
- ➔ **Hazardous decomposition products:**  
Burning produces obnoxious and toxic fumes. Aldehydes. Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).
- ➔ **Polymerization:**  
Not applicable

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### TOXICOLOGICAL INFORMATION

- ➔ **Principle Routes of Exposure:** Eye contact. Skin contact. Inhalation. Ingestion.
- ➔ **Acute toxicity:** N/A
- ➔ **Local effects:**
- ➔ **Long term toxicity:**
- ➔ **Specific effects:** May cause skin irritation and/or dermatitis. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Burning produces irritant fumes.
- ➔ **Mutagenic effects:** Not mutagenic in AMES Test.
- ➔ **Reproductive toxicity:** No data is available on the product itself.
- ➔ **Carcinogenic effects:** No data is available on the product itself.

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### ECOLOGICAL INFORMATION

- ➔ **Mobility:** No data available
- ➔ **Biodegradable:** Does not bio accumulate. Inherently biodegradable.
- ➔ **Eco toxicity effects:**

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### DISPOSAL CONSIDERATIONS

- ➔ **Waste from residues / unused products:** In accordance with local and national regulations. Do not contaminate ponds, waterways or ditches with chemical or used container. Contact manufacturer. THE COMPANY HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (Composition/Information On Ingredients).
- ➔ **Contaminated packaging:** Empty remaining contents. Do not re-use empty containers. Empty containers should be transported/delivered using a registered waste carrier to local recyclers for disposal.

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### TRANSPORT INFORMATION

- U.S. Department of Transportation (DOT):
- **Proper shipping name:** Not regulated as a hazardous material.
- **IMDG:**
- **Proper shipping name:** None
- **Hazard class:** Not regulated.
- **UN/Id No.:** None
- **Packing group:** None
- **ICAO/IATA:**
- **Proper shipping name:** None
- **Hazard Class:** Not regulated.
- **Packing group:** None

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### REGULATORY INFORMATION

(Not meant to be all inclusive--selected regulations represented)  
 NOTICE: The information herein is presented in good faith and believed to be accurate as of the print date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

#### U.S. REGULATIONS

Sara 313 title III: Not listed TSCA  
 Inventory List – Not listed

#### STATE REGULATIONS

California Proposition 65 Not listed

### INTERNATIONAL INVENTORIES

#### Canada DSL Inventory List:

Not listed

#### REACH/EU EINECS List:

Components are in compliance with and/or are listed.

#### Japan (ECL):

Not listed

#### Australia (AICS):

Not listed

#### Korean chemical inventory:

Not listed

#### Philippines (PICCS) inventory:

Not listed

#### China inventory of existing chemical substances list:

Not listed

# MATERIAL SAFETY DATA SHEET

## ADDILIFE™ M3

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1907/2006 and its amendment

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### **Recommended restrictions: None**

The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made. Consult the Company for Further Information.

### **OTHER INFORMATION**

#### **NOTICE:**

The information contained herein is provided by the suppliers of our raw materials. While Eloquent Ideas believes the information contained herein is accurate, Eloquent Ideas Makes no warranty, express or implied, with respect to this information and expressly disclaims all liability for reliance thereon. This data is offered for your consideration, investigation and verification.

#### **NOTICE REGARDING MEDICAL APPLICATION RESTRICTIONS:**

The company does not recommend any of its products, including samples, for use: (A) in any application which is intended for any internal contact with human body fluids or body tissues (B) as a critical component in any medical device that supports or sustains human life; and (C) specifically pregnant women or in any applications designed specifically to promote or interfere with human reproduction.