



## Safety Data Sheet

Revision: 01

Date: March 20, 2017

### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

#### 1. Product Identifiers

Product Name	Silk Fibroin, Solution, 50 mg/mL
Catalog No	5154
Brand Name	Silk Fibroin Solution
CAS No.	96690-41-4

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

Identified Uses	Laboratory chemicals, Manufacturer of substances
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#### 3. Details of the supplier of the safety data sheet

Company	Advanced BioMatrix, Inc. 5930 Sea Lion Place Carlsbad, CA 92010 USA Phone: 1-800-883-8220 1-760-929-0755 outside USA
Fax	1-510-217-3452

#### 4. Emergency telephone number

Emergency Phone No.	1-800-883-8220
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### SECTION 2 – HAZARDS IDENTIFICATION

#### 1. Classification of the substance or mixture

Not a hazardous substance or mixture.

#### 2. GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

#### 3. Hazards not otherwise classified (HNOC) or not covered by GHS – None

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

#### 1. Substances

CAS No.	96690-41-4
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No ingredients hazardous according to OSHA criteria.

No components need to be disclosed according to the applicable regulations.

## SECTION 4 – FIRST AID MEASURES

- 1. Eye Contact**  
Flush eyes with water as a precaution.
- 2. Skin Contact**  
Wash off with soap and plenty of water.
- 3. Inhalation**  
If breathed in, move person into fresh air. If not breathing, give artificial respiration.
- 4. Ingestion**  
Never give anything by mouth to an unconscious person. Rinse mouth with water.
- 5. Most important symptoms and effects, both acute and delayed**  
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- 6. Indication of any immediate medical attention and special treatment needed**  
No data available

## SECTION 5 – FIREFIGHTING MEASURES

- 1. Extinguishing media**  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 2. Special hazards arising from the substance or mixture**  
Nature of decomposition of products not known.
- 3. Advice for firefighters**  
Wear self-contained breathing apparatus for firefight if necessary.
- 4. Further Information**  
No data available

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

- 1. Personal precautions, protective equipment and emergency procedures**  
Avoid dust formation.  
Avoid breath vapors, mist or gas.  
For personal protection see section 8.
- 2. Environmental precautions**  
Do not let product enter drains.
- 3. Methods and materials for containment and cleaning up**  
Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 4. Reference to other sections**  
For disposal see section 13.

## SECTION 7 – HANDLING AND STORAGE

### 1. Precautions for safe handling

Provide appropriate exhaust ventilation at place where dust is formed. For precaution see section 2.2

### 2. Conditions for safe storage, including any incompatibilities

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

Recommended storage temperature -60 to -80°C.

#### Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

### 1. Workplace control parameters

The product does not contain any substances with occupational exposure limit values.

### 2. Exposure controls

#### Appropriate engineering controls

General industrial hygiene practice.

#### Personal protective equipment

##### Eye/Face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Dispose of the contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

##### Body protection

Choose body protection in relations to its type, to the concentration and amount of dangerous substances, and to the specific work place. The type of protective equipment must be selected according to the concentration and the amount of the dangerous substance at the specific work place.

##### Respiratory protection

Respiratory protection is not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Do not let product enter drains.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Form	Liquid
Color	Slight yellow, translucent
Odor	None
Odor threshold	No data available
pH	Around 9.5
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability	No data available
Upper/lower flammability	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Water solubility	No data available
Partition coefficient: n- octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

## SECTION 10 – STABILITY AND REACTIVITY

Reactivity	No data available
Chemical stability	Stable under recommend storage conditions
Possibility of hazardous reactions	No data available
Conditions to avoid	High temperatures
Incompatible material	Strong oxidizing agents
Hazardous decomposition products	Carbon monoxide and Carbon dioxide

\*\*In the event of fire: see section 5.\*\*

## SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity	No data available
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Inhalation	No data available
Dermal	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	
IARC	No components of this product present at levels greater than or equal to 0.1% is identified as known or anticipate carcinogen by IARC.
NTP	No components of this product present at levels greater than or equal to 0.1% is identified as known or anticipate carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	No data available
Specific target organ toxicity	
Single exposure	No data available
Repeated exposure	No data available
Aspiration hazard	No data available
Additional information	
RTECS	No data available

\*\*To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.\*\*

## SECTION 12 – ECOLOGICAL INFORMATION

Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other adverse effect	No data available

## SECTION 13 – DISPOSAL CONSIDERATIONS

### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

### Contaminated packaging

Dispose of as unused product.

## SECTION 14 – TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

## SECTION 15 – REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right To Know Components

Silk Fibroin

CAS No. 96690-41-4

Pennsylvania Right To Know Components

Silk Fibroin

CAS No. 96690-41-4

New Jersey Right To Know Components

Silk Fibroin

CAS No. 96690-41-4

California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

## SECTION 16 – OTHER INFORMATION

HMIS Rating	
Health hazard	0
Chronic Health Hazard	0
Flammability	0
Physical Hazard	0
NFPA Rating	
Health hazard	0
Fire Hazard	0
Reactivity Hazard	0

**Further information:**

This information has been prepared by Advanced BioMatrix, Inc. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Advanced BioMatrix, Inc. and its Affiliates shall not be held liable for any damages resulting from handling or from contact with the above product. See [www.advancedbiomatrix.com](http://www.advancedbiomatrix.com) for additional terms and conditions of sale.

**Preparation Information:**

Advanced BioMatrix, Inc.  
1-800-883-8220