

Safety Data Sheet

Revision: 01

Date: July 27, 2023

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

1. Product Identifiers

Product Name Methacrylated chitosan
Catalog No 5428

Brand Name PhotoChitosan
CAS No. 9012-76-4

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

Identified Uses Laboratory chemical, synthesis of substances

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

SECTION 2 – HAZARDS IDENTIFICATION

1. Classification of the substance or mixture

Acute aquatic hazard, H401

2. GHS Label elements, including precautionary statements

Pictogram: N/A

Signal Word: N/A

Hazard statement(s) H401 Toxic to aquatic life

Precautionary statement(s)

P273 Avoid release to the environment

P501 Dispose of contents/containers to an approved waste disposal plant or facility

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

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

1. Substances

Classification	Aquatic Acute 3; H401
Synonym	Deacetylated chitin
CAS No.	9012-76-4
EC No.	618-480-0

SECTION 4 – FIRST AID MEASURES

1. Eye Contact

Flush eyes with water as a precaution. Remove contact lenses (if any)

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. Drink and 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

No data available

3. Advice for firefighters

Wear self-contained breathing apparatus.

4. Further Information

No data available

SECTION 6 – ACCIDENTAL RELEASE MEASURES

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- 1. Personal precautions, protective equipment and emergency procedures**
For personal protection see section 8.
- 2. Environmental precautions**
None.
- 3. Methods and materials for containment and cleaning up**
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 in places where dust is formed. For precaution see section 2.2
- 2. Conditions for safe storage, including any incompatibilities**
Tightly closed and stored at recommended storage temperatures. Store at -20C if lyophilized, and 4C once reconstituted.
- 3. 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**
Contains no 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**

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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	Solid
Odor	No data available
Odor threshold	No data available
pH	No data available
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	Insoluble
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	None

SECTION 10 – STABILITY AND REACTIVITY

Reactivity	No data available
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Chemical stability

Possibility of hazardous reactions
Conditions to avoid
Incompatible material
Hazardous decomposition products

Stable under recommend storage conditions
No data available
No data available
Strong oxidizing agents
Hazardous decomposition products formed under fire conditions.

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

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 Oral - Rat - > 10000 mg/kg
Inhalation	LC50 Inhalation – No data available
Dermal	LD50 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 to fish	LC50 Rainbow Trout 1.73 mg/L, 96 hr
Toxicity to other aquatic species	LC50 Water Flea 13.69 mg/L, 48 hr
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

Waste material must be disposed of as required by a waste disposal facility. No mixing with other waste.

Contaminated packaging

Dispose of as unused product.

SECTION 14 – TRANSPORT INFORMATION

ADR	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	No components are subject to the Massachusetts Right to Know Act

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California Prop. 65 Components

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

SECTION 16 – OTHER INFORMATION

HMIS Rating	
Health hazard	1
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 for additional terms and conditions of sale.

Preparation Information:

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