

# Bioland Scientific LLC

## Material Safety Data Sheet

Version 1.0

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

|                   |                                                                                        |
|-------------------|----------------------------------------------------------------------------------------|
| Product name      | <b>Agarose</b>                                                                         |
| Product Number    | CA-01                                                                                  |
| Brand             | Bioland Chemicals                                                                      |
| Company           | Bioland Scientific LLC<br>14925 Paramount Blvd., Suite C<br>Paramount, CA 90723<br>USA |
| Telephone         | 1-562-377-2668                                                                         |
| Fax               | 1-562-733-6008                                                                         |
| Emergency Phone # | 1-562-377-2668                                                                         |

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

#### 2.1 Substances

Formula : : C<sub>24</sub>H<sub>38</sub>O<sub>19</sub>  
Molecular weight : 630.5 g/mol  
CAS-No. : 9012-36-6  
EC-No. : 682-415-2

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

### SECTION 3 : HAZARDS IDENTIFICATION

#### 3.1 Classification of the substance or mixture

Not a hazardous substance or mixture

#### 3.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture

#### 3.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

## **SECTION 4 : FIRST AID MEASURES**

### **4.1 Description of first-aid measures**

#### **General advice**

#### **If inhaled**

Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

#### **In case of skin contact**

Rinse with plenty of water. Immediate medical attention is not required.

#### **In case of eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### **If swallowed**

Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

### **4.2 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)

### **4.3 Indication of any immediate medical attention and special treatment needed**

None.

## **SECTION 5 : FIRE-FIGHTING MEASURES**

### **5.1 Extinguishing media**

Suitable extinguishing media

Water spray. Carbon dioxide (CO<sub>2</sub>).

Foam.

Dry chemical

Wear self-contained breathing apparatus and protective suit.

### **5.2 Special Hazards arising from the substance or mixture**

No data available

### **5.3 Advice for firefighters**

No data available.

### **5.4 Further information**

No data available.

## **SECTION 6 : ACCIDENTAL RELEASE MEASURES**

### **6.1 Personal precautions, protective equipment and emergency procedures**

For personal protection see Section 8.

### **6.2 Environmental precautions**

No special environmental precautions required.

### **6.3 Methods and materials for containment and cleaning up**

Take up mechanically, placing in appropriate containers for disposal.

### **6.4 Reference to other sections**

For disposal see section 13.

## SECTION 7 : HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary

### 7.2 Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers.

### 7.3 Specific end use(s)

For research use only.

## SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Engineering measures

Ensure adequate ventilation, especially in confined areas

### 8.2 Exposure controls

#### Personal protective equipment

##### Respiratory protection

In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

##### Hand protection

Wear suitable gloves Glove material: Compatible chemical-resistant gloves.

##### Eye protection

Tight sealing safety goggles

##### Skin and Body Protection

Wear suitable protective clothing

##### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

##### Environmental exposure controls

No special environmental precautions required.

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|                                               |                             |
|-----------------------------------------------|-----------------------------|
| a) Appearance                                 | Form: solid                 |
| b) Odor                                       | No data available           |
| c) Odor Threshold                             | No data available           |
| d) pH                                         | No data available           |
| e) Melting<br>point/freezing point            | Mixture has not been tested |
| f) Initial boiling point and<br>boiling range | No data available           |

|                                                 |                      |
|-------------------------------------------------|----------------------|
| g) Flash point                                  | ( )No data available |
| h) Evaporation rate                             | No data available    |
| i) Flammability (solid, gas)                    | No data available    |
| j) Upper/lower flammability or explosive limits | No data available    |
| k) Vapor pressure                               | No data available    |
| l) Vapor density                                | No data available    |
| m) Density                                      | No data available    |
| Relative density                                | No data available    |
| n) Water solubility                             | No data available    |
| o) Partition coefficient: n-octanol/water       | No data available    |
| p) Autoignition temperature                     | No data available    |
| q) Decomposition temperature                    | No data available    |
| r) Viscosity                                    | No data available    |
| s) Explosive properties                         | No data available    |
| t) Oxidizing properties                         | No data available    |

## 9.2 Other safety information

No data available

## SECTION 10 : STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

No data available

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

No data available

**10.5 Incompatible materials**

No data available

**10.6 Hazardous decomposition products**

In the event of fire: see section 5

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

There is no evidence available indicating acute toxicity

**Principal Routes of Exposure**

Irritation

Conclusive but not sufficient for classification

Corrosivity

Conclusive but not sufficient for classification

Sensitisation

Conclusive but not sufficient for classification

STOT – Single Exposure

Conclusive but not sufficient for classification

STOT - Repeated Exposure

Conclusive but not sufficient for classification

Carcinogenicity

Conclusive but not sufficient for classification

Mutagenicity

Conclusive but not sufficient for classification

Reproductive toxicity

Conclusive but not sufficient for classification

Aspiration hazard

Conclusive but not sufficient for classification

**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity****Toxicity**

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Endocrine disrupting properties**

No data available

**12.7 Other adverse effects**

No data available

**SECTION 13 : DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

**SECTION 14 : TRANSPORT INFORMATION**

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**Further information**

Not classified as dangerous in the meaning of transport regulations.

## SECTION 15 : REGULATORY INFORMATION

### **SARA 313**

This product is not regulated by SARA.

### **Clean Air Act**, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contains HAPs.

### **US State Regulations**

California Proposition 65

This product does not contain any Proposition 65 chemicals.

### **WHMIS Hazard Class**

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

## SECTION 16: OTHER INFORMATION

### **Product Use:**

For research use only.

### **Further information**

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product.

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