

### SECTION 1 Identification

#### 1.1. Product identifier

Product form : Mixture  
Product name : BIOSINC

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Inoculant for soybean seeds, containing nitrogen-fixing bacteria (*Bradyrhizobium* sp.)  
Recommended use : Fertilizers

#### 1.4. Supplier's details

##### Manufacturer

TIMAC AGRO USA Inc.  
P.O. Box 888 - Route 724 & I-176  
Reading, PA 19607-0888 – USA, PENNSYLVANIA  
T 1-800-545-5474  
[info-fds@roullier.com](mailto:info-fds@roullier.com)

#### 1.5. Emergency phone number

No additional information available

### SECTION 2 Hazard Identification

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

##### GHS US classification

Not classified

#### 2.2. Label elements

##### GHS US labeling

No labeling applicable

#### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

#### 2.4. Hazards not otherwise classified

No additional information available

#### 2.5. Unknown acute toxicity

No additional information available

### SECTION 3 Composition/information on ingredients

#### 3.1. Substances

Not applicable

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### 3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria for section 3.2 of HCS

## SECTION 4 First aid measures

### 4.1. Description of necessary first-aid measures

First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove victim to fresh air. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: After contact with skin, wash immediately with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Get medical advice/attention if you feel unwell.

### 4.2. Most important symptoms/effects, acute and delayed

No additional information available

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO <sub>2</sub> ).
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Fire hazard	: Not flammable. Non oxidizing material.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: On thermal decomposition (pyrolysis), releases : Carbon oxides (CO, CO <sub>2</sub> ).

### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus. EN 469.
Other information	: Do not allow run-off from fire fighting to enter drains or water courses. Relevant water authorities should be notified of any large spillage to water course or drain.

## SECTION 6 Accidental release measures

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

General measures : Evacuate area. Remove ignition sources.

#### For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Evacuate unnecessary personnel. Mechanically ventilate the spillage area.

#### For emergency responders

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Stop leak if safe to do so. Evacuate unnecessary personnel.

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Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

### 6.2. Methods and materials for containment and cleaning up

For containment : Collect spillage.  
Methods for cleaning up : Take up liquid spill into absorbent material. Gather the product and place it in a spare container that has been suitably labeled.  
Other information : Clear up spills immediately and dispose of waste safely.

For further information refer to section 8: "Exposure controls/personal protection", For further information refer to section 13

## SECTION 7 Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Use personal protective equipment as required. Avoid contact with skin, eyes and clothing.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Handle in accordance with good industrial hygiene and safety practice.

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

Technical measures : Comply with applicable regulations.  
Storage conditions : Store in dry, cool, well-ventilated area. Protect from sunlight. Stored and transported at temperature between 4°C - 25°C and a relative humidity between 40% - 80%. Do not exceed 26°C, otherwise it would occur a decreasing of bacterial viability.  
Incompatible products : Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity.  
Information on mixed storage : Keep away from food, drink and animal feeding stuffs.  
Storage temperature : 4 – 25 °C Store at ambient temperature  
Specific end uses : see section(s) : 1.2. Relevant identified uses of the substance or mixture and uses advised against).  
Special rules on packaging : Store in a closed container.

## SECTION 8 Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Local exhaust and general ventilation must be adequate to meet exposure standards.

### 8.3. Individual protection measures, such as personal protective equipment

#### Personal protective equipment:

Gloves. Safety glasses.

#### Materials for protective clothing:

Wear suitable protective clothing

#### Hand protection:

protective gloves

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Type	Material	Permeation	Thickness (mm)	Penetration
Disposable gloves, Reusable gloves	Nitrile rubber (NBR), butyl rubber, Polyvinylchloride (PVC)			

### Eye protection:

Safety glasses. ISO 16321-1

Type	Field of application	Characteristics
Safety goggles	Droplet	With side shields

### Skin and body protection:

Skin protection appropriate to the conditions of use should be provided

### Respiratory protection:

Where excessive vapor may result, wear approved mask

### Personal protective equipment symbol(s):



## SECTION 9 Physical and chemical properties

### 9.1. Basic physical and chemical properties

Physical state	: Liquid
Color	: Brown
Odor	: characteristic
Odor threshold	: No data available
pH	: 6.5 – 7.8
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 100 °C
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 1.05 g/cm <sup>3</sup>
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: No data available
Particle characteristics	: No data available

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

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### SECTION 10 Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

Oxidation agents. Acids. Bases.

#### 10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature.

### SECTION 11 Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : No data available (Based on available data, the classification criteria are not met)  
Acute toxicity (dermal) : No data available  
Acute toxicity (inhalation) : No data available

#### BIOSINC

Additional information	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation
Skin corrosion/irritation	: No data available (Based on available data, the classification criteria are not met; No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation) pH: 6.5 – 7.8
Serious eye damage/irritation	: No data available (Based on available data, the classification criteria are not met) pH: 6.5 – 7.8
Respiratory or skin sensitization	: No data available (Based on available data, the classification criteria are not met; No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation)
Germ cell mutagenicity	: No data available (Based on available data, the classification criteria are not met)
Carcinogenicity	: No data available (Based on available data, the classification criteria are not met)
Reproductive toxicity	: No data available (Based on available data, the classification criteria are not met; No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation)
STOT-single exposure	: No data available (Based on available data, the classification criteria are not met)

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Additional information	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation

STOT-repeated exposure : No data available (Based on available data, the classification criteria are not met)

BIOSINC	
Additional information	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation

Aspiration hazard : No data available (Based on available data, the classification criteria are not met; No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation)

## SECTION 12 Ecological information

### 12.1. Ecotoxicity

Ecology - general : Based on available data, the classification criteria are not met. No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation.

Ecology - water : Do not allow large quantities, as are, to spread into the environment. Do not discharge into drains or rivers.

Hazardous to the aquatic environment, short-term (acute) : No data available

Hazardous to the aquatic environment, long-term (chronic) : No data available

### 12.2. Persistence and degradability

BIOSINC	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

BIOSINC	
Bioaccumulative potential	Bioaccumulation unlikely. No studies of longer duration have been conducted at this time.

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Ozone : No data available

Other adverse effects : May cause eutrophication at very low concentration.

Fluorinated greenhouse gases : No

## SECTION 13 Disposal considerations

Regional waste regulation : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Discharging into rivers and drains is forbidden.

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### SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

#### 14.1. UN number

UN-No. (DOT) : Not applicable  
UN-No. (TDG) : Not applicable  
UN-No. (IMDG) : Not applicable  
UN-No. (IATA) : Not applicable

#### 14.2. UN Proper Shipping Name

Proper Shipping Name (DOT) : Not applicable  
Proper Shipping Name (TDG) : Not applicable  
Proper Shipping Name (IMDG) : Not applicable  
Proper Shipping Name (IATA) : Not applicable

#### 14.3. Transport hazard class(es)

**DOT**  
Transport hazard class(es) (DOT) : Not applicable

**TDG**  
Transport hazard class(es) (TDG) : Not applicable

**IMDG**  
Transport hazard class(es) (IMDG) : Not applicable

**IATA**  
Transport hazard class(es) (IATA) : Not applicable

#### 14.4. Packing group

Packing group (DOT) : Not applicable  
Packing group (TDG) : Not applicable  
Packing group (IMDG) : Not applicable  
Packing group (IATA) : Not applicable

#### 14.5. Environmental hazards

Other information : No supplementary information available.

#### 14.6. Transport in bulk

Not applicable

#### 14.7. Special precautions for user

**DOT**  
Not applicable

**TDG**  
Not applicable

**IMDG**  
Not applicable

**IATA**  
Not applicable

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### SECTION 15 Regulatory information

#### 15.1. Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

#### 15.2. International regulations

##### CANADA

No additional information available

##### EU-Regulations

No additional information available

##### National regulations

##### BIOSINC

Ensure all national/local regulations are observed

#### 15.3. State regulations

No additional information available

### SECTION 16 Other information

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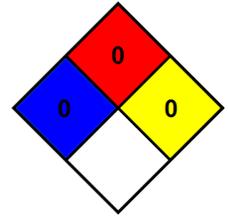
Abbreviations and acronyms	
ATE	Acute Toxicity Estimate
IARC	International Agency for Research on Cancer
LC50	Median lethal concentration
DNEL	Derived-No Effect Level
EC50	Median effective concentration
SDS	Safety Data Sheet
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LD50	Median lethal dose
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organization for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative

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- NFPA health hazard : 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
- NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
- NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



### Hazard Rating

- Health : 0 Minimal Hazard - No significant risk to health
- Flammability : 0 Minimal Hazard - Materials that will not burn
- Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
- Personal protection : B - Safety glasses, Gloves

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.