

# SAFETY DATA SHEET (SDS)

In compliance with the EU Regulations No. 1907/2006 (REACH), No. 2015/830, No. 1272/2008 (CLP) and Commission Regulation (EU) No. 453/2010

Component 5 of Reagent kit for reversible biological conservation  
Customs commodity code 3822 00 000 0

Date of issue: March 01, 2020

<b>1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING</b>
<b>1.1. Product Identifier</b> Trade Name: Component 5 of Reagent kit for reversible biological conservation of BioRee-CC brand IUPAC Name: No Synonyms: No CAS Number: No EC Number: No Registration Number (REACH): No
<b>1.2. Relevant identified uses of the substance or mixture and uses advised against</b> Product use: Returning of calcium components in to cell environment. For research use only. Non-recommended methods of use: Not intended for human or animal diagnostic or therapeutic uses.
<b>1.3. Details of the supplier of the safety data sheet</b> Manufacturer: LLC GLAUKON, 23a-k2 Avtozavodskaya st., 513 room 1, Moscow, Russian Federation, 115280 Telephone: +7 (925) 339-00-49 E-Mail: info@bioree.ru
<b>1.4. Emergency telephone number</b> Information on measures in case of emergency situations: 112 (Russia, European Union) Other information: <a href="https://bioree.ru/">https://bioree.ru/</a>
<b>2. SECTION 2: HAZARDS IDENTIFICATION</b>
<b>2.1. Classification of the substance or mixture</b> According to the Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of chemical substances and mixtures (CLP) and Globally Harmonised System on the classification and labelling of chemicals (GHS): This chemical is considered nonhazardous.
<b>2.2. Label elements</b> Signal word: None Hazard pictograms: None Hazard Statement Code: None Precautions: None
<b>2.3. Other hazards</b> None
<b>3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS</b>
The product contains no substances which at their given concentration, are considered to be hazardous to health. However we recommend handling all chemicals with caution.
<b>4. SECTION 4: FIRST AID MEASURES</b>
<b>4.1. Description of first aid measures</b> General: Personnel hygiene measures have to be observed when working with the reagent. Regular biocontamination control is mandatory in the lab.

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Eye Contact: Rinse thoroughly under running water  
Skin Contact: Rinse under running water  
Inhalation: Fresh air  
Ingestion: Rinse mouth with water

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

Eye Contact: None  
Skin Contact: None  
Inhalation: None  
Ingestion: None

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

None.

### 5. SECTION 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

Appropriate extinguishing media: The reagent isn't flammable. Extinguishing media according to the main source of ignition are used at the outbreak of fire in the warehouses and handling areas.

Inappropriate extinguishing media: Unknown

#### 5.2. Special hazards associated with the substance or mixture

Hazardous Products generated at the point of outbreak of fire: None.

#### 5.3. Advice for firefighters

None

### 6. SECTION 6: ACCIDENTAL RELEASE MEASURE

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

Pull the vehicle to a safe place. Eliminate the reason or leak. Use personal protective equipment recommended in Section 8 of this document and isolate the hazard area.

#### 6.2. Environmental precautions

No special environmental precautions required.

#### 6.3. Methods and material for containment and cleaning up

Collect the ampules.

Collect spilled components in a separate container, using inert absorbent material and send for further disposal.

#### 6.4. Reference to other sections

Information on personal protective equipment is in Section 8 of this document and information about the disposal is in Section 13.

### 7. SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Shipping can be performed using all modes of covered vehicles, subject to shipping rules for a specific mode of transport. Use personal protective equipment as required. No special handling advices are necessary.

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

Storage Recommendations: The reagent should be stored in closed dry warehouses at temperature between +5°C and +25°C and relative humidity below 90%. Keep in properly labelled containers.

Packaging Means and Materials: The reagent is placed in glass ampules with net volume of 2 or 5 ml.

#### 7.3. Specific end use(s)

As indicated in Section 1.2.

### 8. SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1. Control parameters

##### Exposure Limits

Contains no substances with occupational exposure limit values.

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## Engineering measures

Ensure adequate ventilation, especially in confined areas.

### 8.2. Exposure controls

Environmental exposure controls

No special environmental precautions required.

Personal Protective Equipment:

- eye/face protection:

Safety glasses with side shields.



- skin (hands / other) protection:

Rubber gloves, protective clothes for general industrial pollution, cotton lab coats, rubber-proofed fabric apron, leather shoes.



## 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance:	transparent liquid.
Color:	colorless
Odor:	odorless
pH:	7.4
Melting point:	No data available
Boiling point:	No data available
Flash point:	No data available
Decomposition temperature:	No data available
Auto-ignition point:	No data available
Lower ignition limit:	No data available
Upper ignition limit:	No data available
Relative density:	No data available
Specific gravity (water = 1):	No data available
Vapor density (air = 1):	No data available
Vapor pressure:	No data available
Evaporation rate:	No data available
Partition coefficient n-octanol/water:	No data available
Dynamic viscosity:	No data available
Oxidizing properties:	No data available
Explosive properties:	No data available
Relative molecular weight:	No data available
Solubility in water:	Soluble
Solubility in other substances:	Soluble in alcohols

### 9.2. Other information:

Net weight: 5g

## 10. SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Reagent is soluble in water and ethanol

### 10.2. Chemical stability

The reagent is stable under normal conditions of use, transport and storage; does not decompose.

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<b>10.3. Possibility of hazardous reactions</b>	Unknown
<b>10.4. Conditions to avoid</b>	No information available.
<b>10.5. Incompatible materials</b>	No dangerous reaction known under conditions of normal use.
<b>10.6. Hazardous decomposition products</b>	No information available.

<b>11. SECTION 11: TOXICOLOGICAL INFORMATION</b>	
<b>11.1. Information on toxicological effects</b>	There is no evidence available indicating acute toxicity.
<b>Principal Routes of Exposure</b>	
<b>Irritation</b>	feasibly but not sufficient for classification
<b>Corrosivity</b>	feasibly but not sufficient for classification
<b>Sensitisation</b>	feasibly but not sufficient for classification
<b>Carcinogenicity</b>	No data available
<b>Mutagenicity</b>	No data available
<b>Reproductive Toxicity</b>	No data available
<b>Aspiration Hazard</b>	feasibly but not sufficient for classification

<b>12. SECTION 12: ECOLOGICAL INFORMATION</b>	
<b>12.1. Toxicity</b>	Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.
<b>12.2. Persistence and degradability</b>	Component don't form any secondary dangerous products on interaction with external environment.
<b>12.3. Bioaccumulative potential</b>	No data available
<b>12.4. Mobility in soil</b>	No data available
<b>12.5. Results of PBT and vPvB assessment</b>	Is not considered to be PBT (persistent, bioaccumulative and toxic) or vPvB (very persistent and very bioaccumulative) mixture/substance.
<b>12.6. Other adverse effects</b>	No data available

<b>13. SECTION 13: DISPOSAL CONSIDERATIONS</b>	
<b>13.1. Waste treatment methods</b>	Waste treatment precautions are similar to the precautions used for handling finished products.
<b>13.2. Places and methods of neutralization</b>	Upon leakage of the reagent it should be collected in a separate container and directed for recycling or disposal in specially designated areas (e.g., worked-out quarry, the industrial landfill, etc.). Disposal of non-conforming waste and screenings of raw materials should be carried out in accordance with the requirements for environmental protection and current legislation.

<b>14. SECTION 14: TRANSPORT INFORMATION</b>	
<b>14.1. UN number</b>	Not applicable
<b>14.2. UN proper shipping name</b>	Not applicable
<b>14.3. Transport hazard class(es)</b>	Not classified as a dangerous good.

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<b>14.4. Packing group</b>	Not classified as a dangerous good.
<b>14.5. Environmental hazards</b>	Presents no hazard to the environment if handling rules are observed.
<b>14.6. Special precautions for user</b>	Transport marking includes the following handling symbols: "Fragile, handle with care", "Top", "Keep dry" and the warning label "Don't throw".
<b>14.7. Transport in Bulk according to Annex II of MARPOL 73/78 and the International Bulk Chemical Code</b>	Not applicable. The reagent can only be transported in a container.

## 15. SECTION 15: REGULATORY INFORMATION

GOST 19433-88	Hazardous Goods. Classification and Marking.
GOST 31340-2013	Labelling of Chemicals. General Requirements.
GOST 32419-2013	Classification of Chemicals. General Requirements.
GOST 32423-2013	Mixtures Classification of Hazard for Health.
GOST 32424-2013	Environmental hazard classification of a chemical product. Main provisions.
GOST 32425-2013	Environmental hazard classification of a chemical mixture product.

Regulation (EC) No 1907/2006 – REACH concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and establishing a European Chemicals Agency, amending the Directive 1999/45/EC and repealing the Council Regulation (EEC) No. 793/93 and the Commission Regulation (EC) No 1488/94, as well as the Council Directive 76/769/EEC and the Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council dd. 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing the Directives 67/548/EEC and 1999/45/EC, and amending the Regulation (EC) No. 1907/2006.

COMMISSION REGULATION (EC) No 790/2009 dd. August 10, 2009 amending, for the purposes of its adaptation to technical and scientific progress, the Regulation (EC) No. 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.

COMMISSION REGULATION (EU) No 453/2010 dd. May 20, 2010 amending the Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

## 16. SECTION 16: OTHER INFORMATION

<b>16.1. Accepted Abbreviations</b>	
IUPAC	International Union of Pure and Applied Chemistry
CAS Number	Unique numerical identifier of chemical compounds, polymers, biological sequences of nucleotides or amino acids, mixtures and alloys assigned by the Register of Chemical Abstracts Service
EC Number	Number assigned by the EU Commission for the classification and labelling of hazardous substances
GOST	State standard adopted by the Interstate Council for Standardization, Metrology and Certification" (MGS)
<b>16.2. Denial of responsibility</b>	The information presented in this material safety data sheet shall not be taken as being all inclusive and is to be used only as a guide.

Prepared by:

Chief Process Engineer  
LLC GLAUKON

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« \_\_\_\_ » \_\_\_\_\_ 2020