


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

Date of issue: March 01, 2020

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING	
1.1. Product Identifier	
Trade Name:	Component 2 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
1.2. Relevant identified uses of the substance or mixture and uses advised against	
Product use:	Solution for conservation. For research use only.
Non-recommended methods of use:	Not intended for human or animal diagnostic or therapeutic uses.
1.3. Details of the supplier of the safety data sheet	
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
1.4 Emergency telephone number	
Information on measures in case of emergency situations:	112 (Russia, European Union)
Other information:	https://bioree.ru/
2. SECTION 2: HAZARDS IDENTIFICATION	
2.1. Classification of the substance or mixture	
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):	Skin irritation (Category 2), H315 Eye irritation (Category 2), H319
2.2. Label elements	
Signal word:	Warning
Hazard pictograms:	
Hazard Statement Code:	H315 H319
Precautions:	P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
2.3. Other hazards	
	None
3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS	
Main compound is water solution of Neodimium Chloride (< 1.5M)	

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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.

4. SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General: Personnel hygiene measures have to be observed when working with the reagent.
Regular biocontamination control is mandatory in the lab.
Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact: Wash off with soap and plenty of water. Consult a physician.
Inhalation: Fresh air
Ingestion: Rinse mouth with water

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) and/or in section 11

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: Hydrogen chloride gas, neodymium oxides.

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

Do not let product enter drains.

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

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

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.

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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.

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: light violet

Odor: odorless

pH: 6-8

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

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

9.2. Other information:

Net weight: 2.1g

10. SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reagent is soluble in water and ethanol

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10.2. Chemical stability	The reagent is stable under normal conditions of use, transport and storage; does not decompose.
10.3. Possibility of hazardous reactions	Unknown
10.4. Conditions to avoid	No information available.
10.5. Incompatible materials	No dangerous reaction known under conditions of normal use.
10.6. Hazardous decomposition products	Hydrogen chloride gas, neodymium oxides

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects	There is no evidence available indicating acute toxicity.
Principal Routes of Exposure	
Irritation	No data available
Corrosivity	No data available
IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Carcinogenicity	No data available
Mutagenicity	No data available
Reproductive Toxicity	No data available
Aspiration Hazard	feasibly but not sufficient for classification

12. SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity	No data available
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	Is not considered to be PBT (persistent, bioaccumulative and toxic) or vPvB (very persistent and very bioaccumulative) mixture/substance.
12.6. Other adverse effects	No data available

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods	Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
13.2. Places and methods of neutralization	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.

14. SECTION 14: TRANSPORT INFORMATION

14.1. UN number	Not applicable
14.2. UN proper shipping name	

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

16.1. Accepted Abbreviations	
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)
16.2. Denial of responsibility	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

«____» _____, 2020