

SAFETY DATA SHEET

BrightBio® LOIMU-C73



According to Regulation (EC) No. 1907/2006
Version 1.0 Revision Date 23.09.2020
GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Product Name: BrightBio® LOIMU-C73

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Biomaterial

1.3 Details of the supplier of the safety data sheet

Company: Brightplus Oy
Gneissikuja 5-8
FI-90620 OULU FINLAND
Telephone: +358 (0)20 728 99 70
E-mail address: info@brightplus.com

1.4 Emergency telephone number

Emergency Phone #: Myrkytystietokeskus +358 9 4711

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practices

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

No labelling applicable

2.3 Other hazards

Other hazards not contributing to the classification: Warning. Potential dust explosion hazard. Dust may form explosive mixture in air. This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

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Substance type: Biomaterial

<u>Component</u>	<u>Concentration in wt-%</u>
Biopolymer resin	>99%
CAS-No. n/a	
EC-No. n/a	
Non Hazardous component	

3.2 Mixtures

Not applicable

4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled

If breathed in, move person into fresh air and keep comfortable for breathing

In case of skin contact

Wash skin with soap and plenty of water.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes as a precaution

If swallowed

Call a poison centre or a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

None known. Non-hazardous substance.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, foam dry powder.

5.2 Special hazards arising from the substance or mixture

Dust can form an explosive mixture with air, under fire conditions, hazardous fumes will be present: Carbon dioxide, Carbon monoxide, Acetaldehyde

5.3 Advice for firefighters

Evacuate personnel to a safe area. Use water spray or fog for cooling exposed containers. Move containers from fire area if it can be done without personal risk. Prevent fire fighting water from entering the environment

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5.4 Further information

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

Use personal protective equipment. Avoid contact with eyes and skin. Evacuate unnecessary personnel. Ventilate spillage area. Avoid dust formation. Avoid breathing dust. In case of dust release, avoid flames and sparks. Eliminate all sources of ignition

6.2 Environmental precautions

Avoid release to the environment

6.3 Methods and materials for containment and cleaning up

Stop leak without risks if possible. Avoid creating or spreading dust. When cleaning up, avoid dust formation. Shovel or sweep up and put in a closed container for disposal. Flush contaminated areas with plenty of water. Use non-sparking tools. Never return spills in original containers for possible later re-use.

Other information: Dispose of materials or solid residues at an authorized site.

6.4 Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13. For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Dust may form flammable and explosive mixture with air. Protect from moisture. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe dust. Ensure good ventilation of the workstation.

7.2 Conditions for safe storage, including any incompatibilities

Keep away from sources of ignition -No smoking. Keep container tightly closed in a dry and well-ventilated place. Protect from moisture.
Storage temperature: < 30 °C

7.3 Specific end uses

No data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limits

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8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product.

Ensure good ventilation of the workstation. Assess the risk of potentially explosive atmospheres and the need for explosion-proof equipment.

Personal protective equipment

Eye/face protection

Safety glasses with side shields. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with Butyl rubber gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Long sleeved protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

No respiratory protection needed under normal use conditions. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. When respiratory protection is required for certain operations, Dust mask with filter type FFP2 is recommended.

Use respirators and components tested and approved under appropriate government standards such as EN 149.

Environmental exposure controls

Avoid release to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	Physical state: Solid Form: Pellet Colour: White, Opaque
b) Odour	Odourless
c) Odour Threshold	No data available
d) pH	No data available
e) Melting point	150-230°C
f) boiling point/freezing point	No data available
g) Flash point	Not applicable
h) Auto-ignition temperature	Not applicable

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i) Decomposition temperature	> 230°C
j) Flammability (solid, gas)	Non-flammable.
k) Vapour pressure	No data available
l) Relative vapour density at 20 °C	No data available
m) Relative density	No data available
n) Density	1.2 – 1.3 g/cm ³
o) Solubility	insoluble in water
p) Partition coefficient n-octanol/water (Log Pow)	No data available
q) Viscosity, kinematic	No data available
r) Viscosity, dynamic	No data available
s) Explosive properties	No data available
t) Oxidising properties	No data available
u) Explosive limits	Not applicable

9.2 Other safety information

No data available

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 handling and storage conditions

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerisation: Will not occur.
When mixed with air and exposed to an ignition source, dust may burn in the open air or explode if confined.

10.4 Conditions to avoid

Above a temperature of: 230°C / 446 °F. Protect from moisture. Avoid raising powdered materials into airborne dust, creating an explosion hazard.

10.5 Incompatible materials

Water, humidity.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Not classified

Skin corrosion/irritation

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Serious eye damage/eye irritation

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Respiratory or skin sensitization

Not classified

Germ cell mutagenicity

Not classified

Carcinogenicity

Not classified

Reproductive toxicity

Not classified

Specific target organ toxicity - single exposure

Not classified

Specific target organ toxicity - repeated exposure

Not classified

Aspiration hazard

Not classified

12. ECOLOGICAL INFORMATION

12.1 Toxicity

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment

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

No data available

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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Regional legislation (waste)

Regional legislation (waste): Dispose in a safe manner in accordance with local/national regulations.

Waste treatment methods

Dispose of contents/container in accordance with licensed collector's sorting instructions

Contaminated packaging

Dispose in a safe manner in accordance with local/national regulations. Do not re-use empty containers without proper cleaning or reconditioning.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

15.2 Chemical Safety Assessment

No data available

16. OTHER INFORMATION

For Industrial use only. Not for drug, medical, household, or other uses.

DISCLAIMER

The above information is presented in good faith and believed to be correct but does not purpose to be all inclusive and shall be used as a guide only. 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. Brightplus Oy shall not be held liability for any damage resulting from handling or from contact with the above product. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with local laws.