

SAFETY DATA SHEET

BioRaiser



The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

SECTION 1: Identification of the substance / mixture and of the company / undertaking

Date issued	21.03.2018
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1.1. Product identifier

Product name	BioRaiser
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1.2. Relevant identified uses of the substance or mixture and uses advised against

Use categories nordic (UCN).	1 Absorbents and adsorbents 19 Fertilisers
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Use of the substance / preparation	Absorbent for moisture management of soil. Fertilizer.
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Standard industrial classification (NACE)	C20.1.5 – Manufacture of fertilisers and nitrogen compounds E39 – Remediation activities and other waste management services
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1.3. Details of the supplier of the safety data sheet

Company name	Oy Bio-Raiser Ltd
Postal address	Kauppatori 1-3 F
Postcode	60100
City	Seinäjoki
Country	Finland
Telephone number	+358 (0) 44 773 7441
Enterprise No.	2884509-9

1.4. Emergency telephone number

Emergency telephone	Telephone number: 09-471977 or 09-4711 Description: Poison Information Centre (in Finland), P.O. Box 790 (Tukholmankatu 17),
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00029 HUS
Telephone number: 112
Description: Common emergency number

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

CLP classification, notes	In accordance with CLP/GHS regulation (EC) No 1272/2008, the product has not been classified as hazardous.
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2.2. Label elements

Other label information (CLP)	No labeling. In accordance with current regulations, this product has not been classified as hazardous.
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2.3. Other hazards

PBT / vPvB	For results of PBT and vPvB assessment, see point 12.5.
Other hazards	None reported.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description of the mixture	Non toxic, synthetic absorbent. The product contains: Water (CAS 7732-18-5) 40-45 % Carbon (CAS 7440-44-0) 20-30 % Nitrogen (CAS 7727-37-9) 20-30 % Ammonium phosphate (CAS 7722-76-1) 1-5 % Urea (CAS 57-13-6) 0-1 %
Substance comments	The product does not contain ingredients classified as hazardous to health or the environment at concentrations exceeding the concentration limits for listing such ingredients.

SECTION 4: First aid measures

4.1. Description of first aid measures

General	If the situation is unclear or symptoms persist, seek medical attention.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	Wash skin immediately with plenty of water and soap.
Eye contact	Immediately flush eyes with plenty of water for several minutes, holding eyelids open. If eye irritation or other symptoms persist, seek medical attention.
Ingestion	Rinse mouth with water and then drink plenty of water. Do NOT induce vomiting. Get medical attention if symptoms occur.

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

Acute symptoms and effects	None known.
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Delayed symptoms and effects	None known.
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4.3. Indication of any immediate medical attention and special treatment needed

Other information	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.
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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	Harmful compounds may be evolved during fire. Carbon monoxide. Carbon dioxide.
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5.3. Advice for firefighters

Personal protective equipment	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA).
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Avoid generation and spreading of dust.
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Personal protection measures	Wear appropriate personal protective equipment.
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6.2. Environmental precautions

Environmental precautionary measures	No special measures required.
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6.3. Methods and material for containment and cleaning up

Containment	No special measures required.
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6.4. Reference to other sections

Other instructions	Safe handling: see point 7. Personal protective equipment: see point 8. Waste disposal: see point 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Prevent spillages.
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Protective safety measures

Preventive measures to prevent aerosol and dust generation	Prevent formation of dust.
Advice on general occupational hygiene	Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in a dry place. Store in a closed container. Store away from food and feedstuffs.
Conditions to avoid	Protect from moisture.

Conditions for safe storage

Packaging compatibilities	Store in original package or container.
Requirements for storage rooms and vessels	Keep container tightly closed.

7.3. Specific end use(s)

Specific use(s)	None reported.
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SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Other Information about threshold limit values	No applicable exposure limit values. DNEL/PNEC: Not available.
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8.2. Exposure controls

Precautionary measures to prevent exposure

Technical measures to prevent exposure	Ensure adequate ventilation.
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Eye / face protection

Suitable eye protection	Wear suitable protective goggles if there is a risk of eye contact or conditions are dusty.
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Hand protection

Suitable gloves type	Wear applicable chemical resistant safety gloves.
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Skin protection

Suitable protective clothing	Under normal conditions not required.
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Respiratory protection

Respiratory protection necessary at	In case of inadequate ventilation wear respiratory protection.
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Appropriate environmental exposure control

Environmental exposure controls	No special precautions required.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid. Granulate. Block.
Colour	White.
Odour	Not known.
Odour limit	Comments: Unknown.
pH	Value: 4 – 6
Melting point / melting range	Comments: Unknown.
Boiling point / boiling range	Comments: Unknown.
Flash point	Value: 2000 °C
Evaporation rate	Comments: Unknown.
Flammability (solid, gas)	Not flammable.
Explosion limit	Comments: Unknown.
Vapour pressure	Comments: Unknown.
Vapour density	Comments: Unknown.
Specific gravity	Comments: Unknown.
Solubility	Medium: Water Comments: Not water-soluble.
Partition coefficient: n-octanol/water	Comments: Unknown.
Spontaneous combustability	Comments: Not self-igniting.
Decomposition temperature	Comments: Unknown.
Viscosity	Comments: Unknown.
Explosive properties	Not classified as explosive.
Oxidising properties	Not classified as oxidising.

9.2. Other information

Other physical and chemical properties

Comments	None reported.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Not reactive under normal use and storage conditions.
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10.2. Chemical stability

Stability	Chemically stable under normal storage conditions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None known.
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10.4. Conditions to avoid

Conditions to avoid	None known.
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10.5. Incompatible materials

Materials to avoid	Strong inorganic acids.
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10.6. Hazardous decomposition products

Hazardous decomposition products	None known.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Other toxicological data	There is no toxicological data available about the product as such. The product is not classified as acutely toxic.
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Other information regarding health hazards

Assessment of skin corrosion / irritation, classification	The product is not classified as irritant or corrosive to skin.
Assessment of eye damage or irritation, classification	The product is not classified as damaging or irritating to eyes.
Sensitisation	The product is not classified as a respiratory or skin sensitiser.
Mutagenicity	The product is not classified as a mutagen.
Carcinogenicity, other information	The product is not classified as a carcinogen.
Reproductive toxicity	The product is not classified as toxic to reproduction.
Assessment of specific target organ SE, classification	The product is not classified as toxic to specific target organs at a single exposure.
Assessment of specific target organ toxicity RE, classification	The product is not classified as toxic to specific target organs through repeated exposure.
Assessment of aspiration hazard, classification	The product is not classified as an aspiration hazard.

Symptoms of exposure

Other information	No other health effects reported.
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SECTION 12: Ecological information

12.1. Toxicity

Aquatic, comments	There is no ecotoxicological data available about the product as such.
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12.2. Persistence and degradability

Persistence and degradability, comments	Biodegradable.
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12.3. Bioaccumulative potential

Bioaccumulative potential	The product is not bioaccumulative.
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12.4. Mobility in soil

Mobility	No data available.
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12.5. Results of PBT and vPvB assessment

PBT assessment results	The product contains no components considered to be either persistent, bioaccumulative or toxic (PBT).
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12.6. Other adverse effects

Environmental details, summation	There is no environmental data available about the product as such. The product is not classified as hazardous to the environment.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Other information	Dispose of in compliance with local and national regulations.
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SECTION 14: Transport information

14.1. UN number

Comments	The product is not classified for transportation.
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14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

Comments	The product is not classified as hazardous to the environment.
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14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

Legislation and regulations	No specific regulations.
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15.2. Chemical safety assessment

Chemical safety assessment performed	No
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SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	
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Training advice	Read safety data sheet.
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Key literature references and sources for data	Previous version of the SDS (01.04.2014) Product specifications by manufacturer
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Version	1
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Prepared by	Linnunmaa Ltd.
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Comments	The information of this safety data sheet is based on existing public information sources, such as current legislation, available at the time of publication of the completed safety data sheet, and information on the Customer's products that has been provided by the Customer to Linnunmaa Ltd. The Customer is responsible that the information provided to Linnunmaa Ltd. is accurate and up to date.
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