

Safety Data Sheet
 According to REACH / Commission Regulation (EU) 2020/878
RAS-Right Freshwater

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

- 1.1 Product Identifier:** BluePlanet RAS-Right Freshwater
Other Means of Identification: Not Applicable
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
 Relevant uses: Biological inoculant for aquaculture. Organic degrader for wastewater application, environmental & soil remediation, composting and organics recycling; used in general wastewater systems (WWS) biofilters and open waters.
 Uses Advised against: For uses not specified in this section, contact the Manufacturer.
- 1.3 Details of the supplier of the safety data sheet:**
- | | |
|---|---|
| BluePlanet Labs
15752 Industrial Parkway
Cleveland, OH 44135 USA
Tel(USA) +1(216) 472-3030 | Nova Q Ltd
B21 KCR Estate, Kimmage
Dublin, D12 X278, Ireland
Tel: +353-1-2542276 |
|---|---|
- 1.4 Emergency telephone number:**
 USA – BluePlanet Labs +1(216) 472-3030 (EST Office Hours)
 Europe – Nova Q Ltd (Ireland) +353-1-2542276 (GMT Office Hours) +353-86-8207512 (Outside Office Hours)

SECTION 2: Hazardous Identification

- 2.1 Classification of the substance or mixture:** GHS Classification – Not Applicable
- 2.2 Label Elements:**
Hazardous statements: not classed as hazardous.
Precautionary Statements:
 Use protective gloves and eye protection.
 IF SWALLOWED: Rinse Mouth, Drink plenty of water. Do NOT induce vomiting.
 IF ON SKIN: Remove contaminated clothing. Rinse skin with water.
 IF IN EYES: Rinse with water for several minutes. Remove contact lenses. Rinse again.
- 2.3 Other Hazards:** Not Applicable

SECTION 3: Composition/information on ingredients

- 3.1 Substance:** Not Applicable
- 3.2 Mixture:**
Description: Aqueous suspension of all natural heterotrophic, facultative and chemolithotrophic bacteria.
Composition: Water (>98% by weight)
 Viable bacteria culture (<1% by weight)
 Residual non-hazardous media (<1% by weight)
- CAS No:** 68920-42-3

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SECTION 4: First Aid Measures

4.1 Description of first aid measures:

Remove the patient from the immediate source of exposure and then follow the directions below; If medical attention is needed, have the label or SDS for the product at hand.

By Inhalation:

Remove patient from source of exposure into fresh air.

By skin contact:

Remove contaminated clothing; wash affected skin areas thoroughly with soap and water and if symptoms persist, call a doctor immediately.

Contact with Eyes:

Wash eyes with plenty of water for at least 10 minutes keeping eyelids open and if applicable, remove contact lenses after the first 5 minutes of rinsing, and then continue rinsing eyes for another 5 minutes and notify physician immediately if irritation or redness persists.

By Ingestion:

Do not induce vomiting; rinse mouth with water; drink water or milk to dilute and call a doctor if symptoms of diarrhoea develop.

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

In extreme cases, delayed effect after ingestion, diarrhoea may develop.

4.3 Indication of any immediate medical attention and special treatment needed:

Not Applicable

SECTION 5: Firefighting Measures

5.1 Extinguishing Media:

No Fire Hazard – non-flammable mixture.

5.2 Special hazards arising from the substance or mixture:

Not Applicable – no toxic gases, non-reactive, non-explosive.

5.3 Advice for firefighters:

Not Applicable – no toxic gases, non-reactive, non-explosive

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment, and emergency procedures:

Mark the area affected by the spill and prohibit access by any persons, children and animals until the area is dry through evaporation.
Use impermeable gloves and eye protection.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. No damage or contamination to watercourses or sewars.

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- 6.3 Methods and material for containment and cleaning up:**
 Ventilate the area and wash down the spill with water. Allow the water to evaporate.
- 6.4 Reference to other sections:**
 Section 13


SECTION 7: Handling and Storage

- 7.1 Precautions for safe handling:**
 Follow common safety standards and good industrial hygiene; wash hands and other exposed areas with mild soap and water before eating, drinking or smoking, and again when leaving the work area.
 Keep out of reach of children; store away from foodstuffs, beverages and animal feed; avoid exposure by inhalation; avoid contact with skin, eyes, nose and mouth; and use appropriate personal protective equipment.
- 7.2 Conditions for safe storage, including any incompatibilities:**
 Store in closed original container. Ideally store below 35° C, do not exceed 45° C for more than 24 Hours. Do not allow to freeze.
 Reseal tightly between uses.
- 7.3 Specific end use(s):**
 Except for the instructions already specified it is not necessary to provide any special recommendations regarding the uses of this product.

SECTION 8: Exposure controls/personal protection


- 8.1 Control Parameters:**
 CAS Number: 68920-42-3
 There is no harmonised classification and there are no notified hazards by manufacturers, importers or downstream users for this substance. No applicable workplace exposure limits
- 8.2 Exposure Controls:**
 General security and hygiene measures in the workplace:
 As a preventative measure it is recommended to use basic Personal Protective Equipment with CE marking.

Specific protective equipment:

Pictogram	PPE	Remarks
	Nitrile impermeable gloves	CE minimal risk certified

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Pictogram	PPE	Remarks
	Eye protection recommended when spraying	EN166:2001 Safety glasses or equivalent
Additional skin protection:		Not Applicable
Respiratory protection:		Not Applicable
Thermal hazard protection:		Not Applicable
Other protection		Not Applicable
Environmental exposure controls:		
In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its packaging. For additional information see sections 6 and 7.		

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties:

Appearance:	Liquid
Physical State at 20°C	Liquid
Colour:	Amber to light tan
Odour:	Not Applicable
Odour threshold:	Not Applicable*
Freezing point:	0°C
Boiling point:	100°C
Flammability:	Non-flammable
Specific Gravity:	1.001 SG
pH:	7.0 to 8.5
Kinematic viscosity:	Not Applicable*
Concentration:	Not Applicable*
Solubility in water:	Partially soluble
Vapour Pressure:	Not Applicable*
Partition coefficient n-octanol/water 20 °C:	Not Applicable*
Relative vapour density:	Not Applicable*
Explosive properties:	Not Applicable*
Oxidising properties:	Not Applicable*
Flash point:	Non-flammable
Auto-ignition temperature:	Not Applicable*
Decomposition temperature	Not Applicable*
Lower explosive limit:	Not Applicable*
Upper explosive limit:	Not Applicable*

*Not relevant due to the nature of the product, not providing information property of its hazards.

9.2 Other information:

No other chemical or physical information relevant for safe use of the product.

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SECTION 10: Stability and Reactivity

- 10.1 Reactivity:**
 No hazardous reactions are expected because the product is stable under normal storage and usage conditions.
- 10.2 Chemical stability:**
 Chemically stable under normal conditions of storage, handling, and use.
- 10.3 Possibility of hazardous reactions:**
 Hazardous reactions are not expected under normal conditions of storage, handling, and use.
- 10.4 Conditions to avoid:**
 Not Applicable.
- 10.5 Incompatible materials:**
 Not Applicable.
- 10.6 Hazardous decomposition products:**
 Not Applicable.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:
 Product is a non-toxic, non-pathogenic mixture of naturally occurring bacteria in a water base.

Acute Toxicity	Based on available information, classification criteria are not met.
Serious eye damage/irritation:	Mild eye irritant
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	None
Carcinogenicity:	None
Reproductive toxicity:	None
Specific target organ toxicity (single exposure):	None
Specific target organ toxicity (repeated exposure):	None
Aspiration hazard:	None
Symptoms/injuries after inhalation:	May cause drowsiness or dizziness
Symptoms/injuries after eye contact:	Causes mild eye irritation
Symptoms/injuries after ingestion:	Ingestion may cause nausea and diarrhoea

11.2 Information on other Hazards:
 Not Applicable

SECTION 12: Ecological Information.

12.1 Toxicity:
 Product is a mixture of naturally occurring bacteria. No ecotoxicity known.

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<p>12.2 Persistence and degradability: No residual issues, all naturally occurring.</p> <p>12.3 Bioaccumulative potential: No residual issues, all naturally occurring</p> <p>12.4 Mobility in soil: Evaluation of mobility in soil is not relevant for microorganisms</p> <p>12.5 Results of PBT and vPvB assessment: Not Applicable.</p> <p>12.6 Endocrine disrupting properties: None known.</p> <p>12.7 Other adverse effects: Not applicable.</p>
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SECTION 13: Disposal considerations
<p>13.1 Waste treatment methods: Safe to dispose of product to sewage drains, as this fits with products intended use.</p> <p>All packaging is suitable for recycling. Rinse PE bottles thoroughly before disposal.</p>

SECTION 14: Transport Information		
<p>14.1 UN Number</p> <p>14.2 UN Proper Shipping Name</p> <p>14.3 Transport hazard classes</p> <p>14.4 Packing group</p> <p>14.5 Environmental hazards</p> <p>14.6 Special precautions for user</p> <p>14.7 Maritime transport in bulk according to IMO instruments</p>	<p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>Not Applicable</p> <p>No special precautions required</p> <p>Not Applicable</p>	

SECTION 15: Regulatory Information
<p>15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture: Specific provisions in term of protecting people or the environment. It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.</p>

SECTION 16: Other information
<p>The data in this fact sheet were obtained from reliable sources. However, it is provided without express or implied warranty as to its accuracy or correctness. The opinions expressed are those of trained professionals who have provided the information.</p> <p style="text-align: center;">CONTINUED ON NEXT PAGE</p>

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Advice related to training:

Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

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.