



MSDS NO: 1503
CAS NO: Mixture
Revision No: 02
Revision Date: 24/04/09
Supercedes:01
Health & Safety Manager: A. Holland

Safety Data Sheet

1. Identification of the product and the company

NAME: Bionutrient
Synonyms:
Common uses: Microbial growth media.
Supplied by: Acorn Water Ltd
Glasslyn Rd Tel: 00 353 23 88 43466
Bandon Fax: 00 353 23 88 43467
Co. Cork
Ireland

2. Composition/information on ingredients

Natural-occurring biocatalysts containing proprietary organic biodegradable materials and nutrients.

<i>Hazardous ingredient / impurity</i>	<i>% Conc</i>	<i>Classification</i>	<i>Exposure CAS</i>	<i>EINECS</i>
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3. Hazards identification

Classification:

This product is considered to be of low hazard provided that good standards of hygiene and working practices are maintained.

4. First aid measures

<u>Exposure Route</u>	<u>Symptom</u>	<u>Treatment</u>
Inhalation	May cause irritation	Remove to fresh air, if cough or other respiratory symptoms occur, seek medical help.
Skin Contact	May cause irritation	Drench the skin with plenty of water. Remove contaminated clothing and wash before reuse. If irritation persists seek medical attention.
Eye Contact	May cause irritation	Flush with plenty of water for at least 15 minutes. If irritation develops, get medical attention.
Ingestion	May cause irritation	If appreciable quantities are swallowed obtain medical attention. Give one or two glasses of milk or water. If gastrointestinal symptoms develop or occur obtain medical

help. Do not induce vomiting, get medical help

Immediate Treatment/Antidote Symptomatic treatment

5 Fire fighting measures

Suitable Extinguishers: Use appropriate media for underlying cause of fire. Apply alcohol type or all purpose media as directed by manufacturers.

Hazardous Combustion Products Oxides of carbon

Special Equipment for Fire Fighting Wear self contained breathing apparatus. Do not direct a solid stream of water into hot, burning pools; this may create frothing and increase fire intensity

6. Accidental release measures

Personal Precautions: Wear appropriate PPE – see section 8

Environmental Precautions The product contains readily biodegradable ingredients so no special precautions are necessary if product enters drains and watercourses.

Clean up Procedure

Wear eye and skin protection. Floor may be slippery, take care to avoid falling. Sweep up and recover or mix with absorbent and shovel into waste container. Wash residue from spill area with water and flush to a sewer serviced by a waste water treatment facility.

7. Handling and storage

Handling:

Ventilation: Good general ventilation

Recommended procedures & equipment: Avoid excessive heating and storage. Avoid contact with eyes and skin. Wear gloves and safety glasses.

Storage: Store in a dry, cool place.

Keep away from: See section 10. Do not use steel, aluminium or brass for storage and handling.

Suitable storage Media: Plastic materials

Precaution against static discharge: This product in itself does not present a fire hazard.

8. Exposure controls and personal protection

Occupational exposure controls: None assigned

Respiratory protection: Use in well ventilated area.

Eye protection: Safety glasses

Hand protection: Some skins may be sensitized. Wear impervious rubber gloves.

Skin protection: Wear impervious rubber gloves.

Environmental exposure controls: None assigned

9. Physical and chemical properties

Appearance:	Brown Liquid
Odour:	Characteristic
pH	7.0
Melting point (°C):	N/A
Boiling point/boiling range (°C):	100°C
Flash point (°C):	N/A
Flammability (solid, gas):	N/A, N/A
Explosive properties:	N/A
Oxidising properties:	N/A
Relative density (Kg/dm³):	1.05
Vapour pressure:	No data
Solubility:	
-water solubility:	Completely water soluble
-fat solubility (solvent):	N/A
Partition co-efficient:n-octanol/water:	N/A
Viscosity:	N/A
Vapour density:	N/A

Evaporation rate: N/A

10 Stability and reactivity

Stability: Stable under recommended conditions.

Conditions to avoid: Avoid excessive storage temperatures and direct sunlight.

Materials to avoid: Do not use steel, aluminium or brass for storage and handling. Keep away from strong oxidisers, strong acid, alkali and organic solvents

Hazardous decomposition products: Oxides of carbon

11. Toxicological information

No testing on animals is carried out on this product but the components all have a toxicology of greater than LD50 5000 mg/kg (rat) and at the concentrations used this is not considered toxic.

12. Ecological information

Ecotoxicity: The product contains readily biodegradable ingredients and will not harm the environment. None of the active ingredients are acutely toxic to fish.

Mobility: The product is soluble in water.

Persistence and degradability: The product contains readily biodegradable ingredients and will not harm the environment.

Other adverse effects: None.

13. Disposal considerations:

Substance: Via an authorized waste disposal contractor, local regulations should be adhered to.

Container: As substance. Used containers must not be cut up or punctured until completely purged of product residues.

14 Transport information

Not regulated for transport.

15. Regulatory Information

Supply label details: Ref CHIP

Label Name: Bionutrient

Symbols: None

Risk Phrases: None

Safety Phrases: None

Users of this material may be governed by the following regulations:-(Users are advised to consult these regulations for further information)

COSHH

The information contained in this data sheet does not constitute an assessment of workplace risks.

16. Other information

This material must not be used for:

This material is usually used for:

Microbial growth media.

Product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with legal regulations. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should therefore not be construed as guaranteeing specific properties.