

1. Identification of the Substance/Preparation and Supplier

1.1 Product Identifier

Trade Name: Bio Fizzy Tablets
Product Code: SEP020BIO01R (ready-to-use)

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

Identified use(s): Biological treatment to eliminate drain blockages and reduce odours (ready-to-use).

1.3 Details of the supplier of the safety data sheet

Company: Delphis Eco, Unit 1, River Reach, Gartons Way, London SW11 3SX
t: +44 (0) 203 397 0096 f: +44 (0) 870 974 7219

1.4 Emergency telephone number

Emergency phone number: t: +44 (0) 203 397 0096 (Office hours only)

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

Hazard Class	Hazard Category	Hazard Statement
Eye Irritant	Category 2	H319

Most important adverse effects:

Human health: See section 11 for toxicological information.
Physical and chemical hazards: See section 9 for physicochemical information.
Potential environmental effects: See section 12 for environmental information.

2.2 Label elements

Label elements: H319: Causes serious eye irritation
Hazard statements: H319: Causes serious eye irritation
Signal words: Warning
Hazard pictograms: GH507: Exclamation mark
Precautionary statements: P280: Wear protective gloves/protective clothing/eye protection/face protection.
P390+351+330: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
P313: Get medical advice/attention



2.3 Other hazards

For Results of PBT and vPvB assessment see section 12.5

3. Composition/Information on Ingredients

3.2 Mixtures

Ingredient Name	Identifiers	Classification EC/1272/2008	Solid Amount
Citric acid	EC - 201-069-1 CAS - 77-92-9 REACH reg No. 01-2119457026-42	Eye Irrit. 2 H319	30-50%
Fumaric acid	EC - 203-743-0 CAS - 110-17-8 REACH reg No. 01-2119485492-31	Eye Irrit. 2 H319	5-10%

For the wording of the listed R phrases or H statements, refer to section 16.

4. First Aid Measures

4.1 Description of first aid measures

Eye contact: Avoid contact with eyes, if product gets into eyes, rinse with water.
Skin contact: Avoid contact with skin, if product gets onto skin wash with water and remove contaminated clothing.
Ingestion: Do not drink, if swallowed drinking water may be beneficial, do not induce vomiting.
Inhalation: Avoid inhaling product, move to fresh air if in discomfort.

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4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Irritation of eyes and mucus membranes.
Effects: Irritation of eyes and mucus membranes.

4.3 Indication of immediate medical attention and special treatment needed

Treatment: No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

5. Fire Fighting Measures

5.1 Extinguishing Media

Suitable Extinguishing Media: Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Unsuitable Extinguishing Media: Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting: In case of fire hazardous decomposition products may be produced such as: Oxides of carbon.

5.3 Advice for fire fighters

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.

Further information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Follow precautions for safe handling described in this safety data sheet. Avoid contact with skin and eyes. Avoid dust formation. Avoid inhalation of dust. Provide adequate ventilation.

6.2 Environmental precautions

Environmental precautions: May be flushed safely into drain when used in quantities as per the instruction. For large industrial quantities beyond the scope of the instructions, do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up: Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Flush area with plenty of water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Further information: Treat recovered material as described in the section 'Disposal considerations'.

6.4 Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

7. Handling and Storage

7.1 Precautions for safe handling

Advice on safe handling: Avoid contact with skin and eyes. Provide good ventilation. Avoid spread of dust. Avoid inhalation of dust. Hygiene measures: Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Provide adequate ventilation. Avoid contact with the skin and the eyes.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Keep containers tightly closed. Keep in original container. Store in closed original container at temperatures between 5°C and 30°C.
Advice on protection against fire and explosion: The product is not flammable. Normal measures for preventive fire protection.
Further information on storage conditions: Keep container tightly closed. Keep in a well-ventilated place. Store in cool place.
Advice on common storage: Keep away from food, drink and animal feeding stuffs.

7.3 Specific end uses

Do not allow tablets to come into contact with water as this will cause them to deteriorate.

8. Exposure Controls/Personal Protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

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8.2 Exposure controls

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Respiratory Protection: If significant dust is being created when handling tablets respiratory protection should be considered as below. For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eyes: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(EU).

Hand: Handle with 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.

Material	Break through time	Glove thickness
Nitrile rubber Immersion	480 minutes	0.11mm
Nitrile rubber Splash	30 minutes	0.11mm

Skin: Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

8.2.3 Environmental exposure controls

May be flushed safely into drain when used in quantities as per the instruction. For large industrial quantities beyond the scope of the instructions, do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Form:	Solid
Colour:	Blue
Odour Threshold:	No data available
pH:	<2 at 100 grams per litre
Flash Point:	No data available
Evaporation rate:	No data available
Flammability (solid gas):	No data available
Upper explosion limits:	No data available
Lower explosion limits:	No data available
Vapour Pressure:	No data available
Relative Vapour Density:	Not applicable
Relative Density:	1.04g/3cm (20°C)
Water Solubility:	Partially miscible
Partition Coefficient in n-octanol/water:	Not applicable
Auto Ignition Temperature:	Not applicable
Thermal Decomposition:	Heating can release hazardous gases
Viscosity dynamic:	No data available
Explosively:	No data available
Oxidising Properties:	No data available

9.2 Other Information

No other information.

10. Stability and Reactivity

10.1 Reactivity

No specific hazards.

10.2 Chemical Stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

No specific hazards.

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10.4 Conditions to Avoid

Conditions to avoid: Heat.
Thermal decomposition: Excessive heating can release hazardous gases oxides of carbon.

10.5 Incompatible materials

Materials to avoid: Oxidizing agents (including bleach), Bases, Reducing agents, Nitrates.

11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity:

Oral: No data available.
Inhalation: No data available.
Dermal: No data available.

Irritation:

Skin: Please find this information in the listing of the component/components below in this msds.
Eyes: Please find this information in the listing of the component/components below in this msds.

Sensitisation:

Please find this information in the listing of the component/components below in this msds.

CMR effects:

Carcinogenicity: Please find this information in the listing of the component/components below in this msds.
Mutagenicity: Please find this information in the listing of the component/components below in this msds.
Teratogenicity: Please find this information in the listing of the component/components below in this msds.
Reproductive toxicity: Please find this information in the listing of the component/components below in this msds.

Specific target organ toxicity:

Single exposure: The mixture is not classified as a specific target organ toxicant single exposure.
Repeated exposure: The mixture is not classified as a specific target organ toxicant repeated exposure.

Other toxic properties:

Aspiration risk: No aspiration toxicity classification.

Information on components: Citric Acid CAS 77-92-9

Acute toxicity:

Oral: LD 50 5400mg/kg (rat)
Dermal: LD 50 >2000mg/kg (rat)

Irritation:

Skin: Skin - rabbit - Mild skin irritation - OECD Test Guideline 404.
Eyes: Eyes - rabbit - Irritating to eyes. - OECD Test Guideline 405.

Sensitisation:

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals

CMR effects:

Carcinogenicity: 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..

Mutagenicity: No data available.

Teratogenicity: No data available.

Reproductive toxicity: No data available.

Specific target organ toxicity:

Inhalation: No data available.
Repeated exposure: No data available.

Other toxic properties:

Aspiration risk: No data available.

Potential health effects:

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion: May be harmful if swallowed.
Skin: May be harmful if absorbed through skin. May cause skin irritation.
Eyes: Causes serious eye irritation.

Signs and Symptoms of Exposure: Vomiting, Diarrhoea, Damage to tooth enamel., Dermatitis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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Other: RTECS: GE7350000

Information on components: Fumaric Acid CAS 110-17-8

Acute toxicity:

Oral: LD 50 9300mg/kg (rat)
Dermal: LD 50 >20000mg/kg (rabbit)

Irritation:

Skin: Skin - rabbit - Mild skin irritation -- 24hours.
Eyes: Eyes - rabbit - Moderate irritation. - 24hours.

Sensitisation: No data available.

CMR effects:

Carcinogenicity: 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.

Mutagenicity: No data available.

Teratogenicity: No data available.

Reproductive toxicity: No data available.

Specific target organ toxicity:

Inhalation: No data available.

Repeated exposure: No data available.

Other toxic properties:

Aspiration risk: No data available.

Potential health effects:

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion: May be harmful if swallowed.
Skin: May be harmful if absorbed through skin. May cause skin irritation.
Eyes: Causes serious eye irritation.

Signs and Symptoms of Exposure:

Gastro intestinal disturbance.

Other: RTECS: L59625000

12. Ecological Information

12.1 Toxicity

Information on component: Citric Acid CAS 77-92-9 Acute toxicity:

Fish: mortality LC50 - *Leuciscus idus melanotus* - 440 mg/l - 48 h Method: OECD Test Guideline 203.

Toxicity to Daphnia and other invertebrates: static test - *Daphnia magna* (Water flea) - 1,535 mg/l - 24 h.

Algae: No data available.

Information on component: Fumaric Acid CAS 110-17-8

Fish: mortality - *Danio rerio* (zebra fish) - 245 mg/l - 48 h Method: DIN 38412.

Toxicity to Daphnia and other invertebrates: EC50 - *Daphnia magna* (Water flea) - 73.6 mg/l - 24 h Method: DIN 38412.

Algae: Growth inhibition EC50 - *Desmodesmus subspicatus* (green algae) - 41 mg/l - 72 h.

12.2 Persistence and Degradability

Information on component: Citric Acid CAS 77-92-9 Biodegradability:

The product is easily biodegradable. Biological Oxygen Demand 526 g O₂/g substance. Chemical Oxygen Demand 728 g O₂/g substance.

Information on component: Fumaric Acid CAS 110-17-8 Biodegradability: No data available.

12.3 Bio-accumulative potential

Information on component: Citric Acid CAS 77-92-9 Bio-accumulation:

The product does not contain any substances expected to be bio accumulating. Partition Coefficient -1.72

Information on component: Fumaric Acid CAS 110-17-8 Bio-accumulation: No data available.

12.4 Mobility in soil

Information on component: Citric Acid CAS 77-92-9 Mobility: Not expected to be absorbed by soil.

Information on component: Fumaric Acid CAS 110-17-8 Mobility: No data available.

12.5 Results of PBT and vPvB assessment

Information on component: Citric Acid CAS 77-92-9: Not classified as a PBT or vPvB substance.

Information on component: Fumaric Acid CAS 110-17-8: No data available.

msds according to regulation (EC) no. 453/2010

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12.6 Other adverse effects

Do not flush into surface water or sanitary sewers. Avoid subsoil penetration.

13. Disposal Recommendations

13.1 Waste treatment methods

Product: May be flushed safely into drain when used in quantities as per the instruction. For large industrial quantities beyond the scope of the instructions, do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. Contact waste disposal services.

Contaminated packaging: Empty remaining contents thoroughly. They can be recycled after thorough cleaning. Packaging that cannot be cleaned are to be disposed of in the same manner as the product. Dispose of in accordance with local regulations.

European Waste Catalogue Number: No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

14. Transport Information

Transport class: This product does not require a classification for transport.

15. Regulatory Information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 Control of Substances Hazardous to Health (COSHH) Regulations.

15.2 Chemical safety assessment

No data available.

16. Other Information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010. * indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3:

H319: Causes serious eye irritation.

Training Advice: Normal use of this product shall imply use in accordance with the instructions on the packaging. Users should be trained in good industrial hygiene practise. This data sheet does not constitute an assessment of the workplace risks as required under the provisions of the Health & Safety at Work act and the Control of Substances Hazardous to Health (COSHH). Do not mix with other chemicals.

Date: 01.06.15

Legal Disclaimer: The information supplied above is based upon the present state of our knowledge of the product at the time of publication. It is given in good faith and no warranty is implied with respect to the specification or quality of the product. The user must satisfy himself that the product is entirely suitable for his purpose.

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