

Pure Aquatics

Safety data sheet According to regulation (EC) No. 1907/2006 and (EC) 453/2010

Liquid concentrated mix formulation of microorganisms – Pure Aquatics

Version 2.0 Revision date 26/09/2017 IR/EN

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

1.1. Product identifiers

- Product name: Pure Aquatics Nitrifying Bacteria

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

- Identified uses: Concentrated bacterial spores suited for Control of Ammonia and Nitrite, in Aquaria.

- Uses advised against: Unidentified.

1.3. Details of the supplier of the safety data sheet

- Company identification:

Pure Aquatics

74 Reservoir Place Wauchope NSW 2446

- Phone: . 0457 811 285

- Contact: Gareth Baber

- email: gareth@pureaquatics.com.au

- Web site: pureaquatics.com.au

1.4. Emergency phone number. 0457 811 285

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Not a hazardous substance or mixture.

Classification according to Directives EU 67/548/EEC or 1999/45/CE

Not a hazardous substance or mixture.

2.2. Label elements

Label Regulation (EC) No 1272/2008)

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3. Other hazards

None.

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

No hazardous ingredients according to Regulation (EC) No. 1907/2006.

Ingredients	CAS number	Concentration range
Extract from Alga	84775-78-0	1 %
Buffered water	Unreferenced	30 %
Microorganisms – Nitospira species class 1	Unreferenced	>5%
Microorganisms – Bacillus species class 1	Unreferenced	>2%
Microorganisms – Nitrifying species class 1	Unreferenced	>62 %

** Product contains purified strains, non-pathogenic natural microorganisms without having undergone any transformation by genetic engineering. The strains belong to the risk group 1 (in respect to the Directive EU 2000/54).*

SECTION 4 First aid measures

4.1. Description of first aid measures

- General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.
- If inhaled: If breathed in, move person into fresh air. Consult a physician.
- In case of skin contact: Remove contaminated clothes. Wash skin with an antiseptic soap and water. In the case of contact with an injury, disinfect and consult a physician.
- In case of eye contact: Remove eyes lenses. Flush with plenty of water for at least 15 minutes. Consult an ophthalmologist.
- If swallowed: Rinse mouth and drink plenty of water. Consult a physician. Never give anything by mouth to an unconscious person.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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

No data available.

SECTION 5 Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: non-inflammable product.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

- Protective equipment: Selecting appropriate respiratory equipment according to general rules and behavior in case of fire.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

6.2. Environmental precautions

No specific environmental precautions requirement.

6.3. Methods and materials for containment and cleaning up

- For containment: Handling in a confined area to avoid dispersion.

- For cleaning up: Soak up with inert absorbent material (sand, ground, sawdust). Rinse contaminated area with water.

- Further information: Spread mixture forms slippery/greasy surfaces

6.4. Reference to other sections

For personal protection, see section 8.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Handling in a confined area. For personal protection, see section 8.

7.2. Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3. Specific end uses

No data available.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters: Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2. Exposure controls

Appropriate engineering controls: General industrial hygiene practice.

Personal protective equipment

Eye and face protection: Safety glasses complying with EN 166.

Skin protection: Handling with protective nitrile gloves complying with EN 374.

Body protection: No specific precautions requirement.

Respiratory protection: No specific precautions requirement

Environmental exposure controls

No specific environmental precautions requirement.

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

physical and chemical aspects

Appearance Liquid suspension

Color Brown

Odour Soft

organic pH 6.5 ± 0.5

Density No data available

Melting point No data available

Boiling point No data available

Flash point No data available

Water solubility Miscible in water

Explosive properties No data available

9.2. Other safety information

Microbiological aspects

Type Genus Bacillus

Form > 99% cultures

Gram-negative < 100 by ml of suspension

Salmonella Undetectable

E. coli < 100 by ml of suspension

Storage limit > 90% after 2 years at 4°C

Toxicity None

Activity > 2.10/08 by ml of suspension

SECTION 10 Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

10.5. Incompatible materials

Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing agents.

10.6. Hazardous decomposition product

Hazardous decomposition products: No decomposition products are known.

Thermal decomposition: No data available.

In case of fire: See section 5.

10.7. Additional information

Spores remaining viability is greater than 90% after 5 years of storage at 4°C.

SECTION 11 Toxicological information

Acute toxicity

Non-toxic.

Serious eye damage/eye irritation Mixture

Bathe the eye with running water for 10-15 minutes.

Respiratory or skin sensitization

In case of exposure, wash with mild soap and water and rinse.

Germ cell mutagenicity

No data available.

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.

Reproductive toxicity

No data available.

Specific target organ toxicity - single exposure

No data available.

Specific target organ toxicity - repeated exposure

No data available.

Aspiration hazard

No data available.

Additional Information Mixture

No data available.

SECTION 12 Ecological information

Toxicity

Adverse effects related to environment are regarded as limited.

Persistence and degradability

Mixture Inherently biodegradable.

Seaweed No data available.

Bioaccumulation potential

Mixture Bioaccumulation is unlikely.

Glycerol No data available.

Mobility in soil

Mixture

Soluble in water and can be dispersed in water systems.

Glycerol No data available.

Evaluation PBT et vPvB

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects No data available.

SECTION 13 Disposal considerations

Waste treatment methods: waste elimination presents no hazards.

product: Consult the current regulations.

packaging: Consult the current regulations.

Additional waste removal recommendations

Cleaning up: Rinse with water.

Spores inactivation: by thermic sterilization (121°C – 20 min) or soaking in a caustic soda solution 40 g/l during two hours at ambient temperature.

SECTION 14 Transport information

Regulation concerning the international carriage of dangerous goods by road (ADR/RID and RTMDR /RTMDF)

Not regulated as a dangerous goods.

Regulation concerning international air transport (OACI/IATA)

Not regulated as a dangerous goods.

Regulation concerning international maritime transport (IMDG)

Not regulated as a dangerous goods.

SECTION 15 Regulatory information

Not concerned by the Regulation on the labelling of dangerous substances

SECTION 16 Other information

Microbiological characteristics

The liquid concentrated formulation contains active nonpathogenic bacterial strains (risk group 1:2000/54/EC).