

## Section 1: Product & Company Information

Product Identifier: AquaLife DeNitrex BioPellets

Other Means of Identification

Product Number: None

Recommended Use and Restrictions on Use

Recommended Use: Denitrification of water in aquaculture/aquarium applications.

Restrictions on Use:

Manufacturer / Importer / Supplier / Distributor Information

Company Name: Aquarium Life Support Systems  
1737 Louisville Dr  
Knoxville, TN 37921  
USA

Information Telephone Number: 865/588-0108

Fax Number: 865/588-1976

Website: [www.aqualifesupport.com](http://www.aqualifesupport.com)

E-mail: [cs@aqualifesupport.com](mailto:cs@aqualifesupport.com)

Emergency Phone Number: 865/588-0108

## Section 2: Hazards Identification

Hazard Classification(s)

No known OSHA hazards.

Not considered hazardous according to EC Directives 67/548/EEC or 1999/45/EC and their valid adaptations and derived national regulations..

Physical Hazard(s): 0

Health Hazard(s): 0

Environmental Hazard(s): 0

Label Elements No measures required

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD RATINGS

Health (Blue): 0 – Minimal

Flammability (Red): 0 – Minimal

Instability (Yellow): 0 – Minimal

Other (White): None

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

Health Hazard (Blue): 0 – Minimal

Flammability Hazard (Red): 0 – Minimal

Physical Hazard (Orange): 0 – Minimal

Protective Equipment: See section 8

Disposal: Not applicable

Hazard(s) not otherwise classified (HNOC): None known

### Section 3: Composition/Information on Ingredients

#### Substance

| Chemical Identity | CAS #     | Weight % |
|-------------------|-----------|----------|
| Pumice            | 1332-09-8 | 100      |

### Section 4: First Aid Measures

**Eyes:** Immediately flush eyes thoroughly with water for 15-20 minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist. Get medical aid.

**Skin:** Wash off with soap and water.

**Ingestion:** Rinse mouth with water and drink a glass of water. Further first aid not generally required. If unconscious, do not induce vomiting. If in doubt, contact a poison information center or a doctor.

**Inhalation:** Remove victim to fresh air and keep at rest and warm. If victim feels unwell, call a doctor or physician.

**Notes to Physician:** Treat symptomatically and supportively. Wear suitable protective equipment for eyes, skin, and protective mask depending on the situation

### Section 5: Fire Fighting Measures

**Flash Point:** None. Autoignition Temperature: Not applicable.

**FLAMMABLE LIMITS** (in air by volume, %): Not Applicable

Lower Explosive Limit (LEL): Not Applicable

Upper Explosive Limit (UEL): Not Applicable

**Extinguishing Media:** Material is non-flammable.

### Section 6: Accidental Release Measures

**General Information:** Use personal protective equipment as indicated in Section 8. Ventilate area.

**Spills/Leaks:** Sweep up scattered material. Vacuum fines, or dusts. Avoid eating or drinking in affected area.

### Section 7: Handling and Storage

**Handling:** Good industrial practices in housekeeping and personal hygiene should be followed. Minimize dust. Maintain operating temperature within the recommended processing range. Avoid contact with molten material and provide adequate ventilation during processing. Systems and procedures should be designed to minimize the generation and accumulation of dust from the handling.

**Storage:** Store material in original containers. Store in a cool, dry area protected from environmental extremes. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks.

## Section 8: Exposure Controls/Personal Protection

### Appropriate Engineering Controls

Use mechanical ventilation such as dilution and local exhaust. Use a corrosion-resistant ventilation system and exhaust directly to the outside. Supply ample air replacement.

### Individual protection measures, such as personal protective equipment (PPE)

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product. Have an eyewash fountain and safety shower available in the work area. Use good hygiene when handling this material, including changing and laundering work clothing after use.

### Eye/Face Protection

Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if needed.

### Skin Protection

Hand Protection: Wear appropriate chemical resistant gloves.

Other: Use body protection appropriate for the task (e.g., apron, lab coat, overalls, etc.) If necessary, refer to appropriate Standards of Canada, the European Union, Australia, or Japan.

### Respiratory Protection

No Specific Guidelines are available. If airborne concentrations are above the applicable exposure limits, use NIOSH-approved respiratory protection. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN 529:2005, or EU member states. Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, use of a full-facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply is required under U.S. Federal OSHA's Respiratory Protection Standard (1910.134-1998) or the regulations of various U.S. States, Canada, EU Member States, or those of Japan. Air-purifying respirators with dust/mist/fume filters are recommended if operations may involve prolonged exposures to mists or sprays from this product.

### Hygiene Measures

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated footwear that cannot be cleaned. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse. Avoid contact with eyes, skin, and clothing.

## Section 9: Physical and Chemical Properties

### Appearance:

|                                     |                             |
|-------------------------------------|-----------------------------|
| Physical State:                     | Solid, gray rock            |
| Color:                              | Gray                        |
| Odor:                               | Odorless                    |
| pH:                                 | Not applicable.             |
| Melting Point/Freezing Point:       | Not applicable.             |
| Flash Point:                        | None                        |
| Evaporation Rate (butyl acetate=1): | Not applicable.             |
| Flammability (solid, gas):          | Non-flammable               |
| Vapor Pressure:                     | Not applicable.             |
| Vapor Density (air =1):             | Not applicable.             |
| Relative Density (water=1):         | 1.570 g/cm <sup>3</sup>     |
| Solubility in water:                | Insoluble                   |
| Specific Gravity                    | 1.56 (H <sub>2</sub> O = 1) |

## Section 10: Stability and Reactivity

### Reactivity

No dangerous reaction known under conditions of normal use.

### Chemical Stability

This product is stable under normal conditions of use. Possibility of Hazardous Reactions

### Hazardous polymerization

Does not occur.

### Conditions to Avoid

Avoid high temperatures, exposure to incompatible materials.

### Incompatible Materials

Strong acids. Strong bases. Strong oxidizers.

### Hazardous Decomposition Products

Decomposition products can include and are not limited to: Carbon dioxide, Alcohols, Ethers, Hydrocarbons, Polymer fragments.

## Section 11: Toxicological Information

Acute Toxicity Estimates (ATE) are calculated according to US OSHA Hazard Communication Standard 29CFR 1910.1200. The calculation is based on specific toxicology data for components present in concentrations greater than 1%.

### ACUTE TOXICITY

#### Acute oral toxicity

The calculated ATE(mix) for this product is > 10,000 (estimated). Product has negligible toxicity if swallowed.

#### Acute dermal toxicity

Prolonged skin contact is unlikely to result in absorption of harmful amounts. Typical for this family of materials. LD50, Rabbit > 5,000 mg/kg Estimated.

#### Acute inhalation toxicity

No adverse effects are anticipated from inhalation.

### SKIN CORROSION/IRRITATION

Essentially nonirritating to skin.

### SERIOUS EYE DAMAGE/EYE IRRITATION

May cause eye irritation. Corneal injury is unlikely.

### SENSITIZATION

The components of this product are not known to be human skin or respiratory sensitizers.

### SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

### SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)

Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

### CARCINOGENICITY

The components of this product are not listed by U.S. FEDERAL OSHA, NTP, IARC, and CAL/OSHA and therefore are not considered to be, nor suspected to be, cancer-causing agents by these agencies.

### TERATOGENICITY

The components of this product are not reported to produce teratogenic effects in humans.

### REPRODUCTIVE TOXICITY

The components of this product are not reported to cause reproductive effects in humans.

### MUTAGENICITY

The components of this product are not reported to produce mutagenic effects in humans.

### ASPIRATION HAZARD

Based on physical properties, not likely to be an aspiration hazard.

## Section 12: Ecological Information

### ENVIRONMENTAL STABILITY:

This product will not biodegrade in the environment.

### EFFECT OF MATERIAL ON PLANTS OR ANIMALS:

This product is not expected to cause harm to plants or animals.

### EFFECT OF CHEMICAL ON AQUATIC LIFE:

No data are currently available on the effects of a release of this product to bodies of water.

## Section 13: Disposal Considerations

There are no special requirements. Observe all federal, state and local environmental regulations. Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, EU Member States, Australia, and Japan. The used container should be recycled after cleaning or dispose of in compliance with related laws and local regulations. Contents should be removed completely when disposing of empty containers.

U.S. EPA WASTE NUMBER: Not applicable for wastes of this product.

## Section 14: Transportation Information

This product is NOT hazardous as defined by (1) the U.S. Department of Transportation (49 CFR 172.101), (2) per regulations of Transport Canada, (3) per the International Air Transport Association, (4) per rules of the International Maritime Organization, (5) per the Economic Commission for Europe (European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR)). Additionally, this product is NOT classified as a Marine Pollutant as defined by 49 CFR 172.101 Appendix B, U.S. Department of Transportation).

When transporting, confirm no leakage from containers. When loading, prevent containers from failing, dropping or damaging.

## Section 15: Regulatory Information

### UNITED STATES REGULATIONS:

U.S. SARA REPORTING REQUIREMENTS: The component of this product is NOT subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA THRESHOLD PLANNING QUANTITY: The component of this product has no specific Threshold Planning Quantity. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 pounds (4540 kg) therefore applies, per 40 CFR 370.20.

U.S. SARA HAZARD CATEGORIES (SECTION 311/312, 40 CFR 370-21): ACUTE: Yes; CHRONIC: No; FIRE: No; REACTIVE: No; SUDDEN RELEASE: No

U.S. TSCA INVENTORY STATUS: The component of this product is listed on the TSCA Inventory.

U.S. CERCLA REPORTABLE QUANTITY (RQ): Not applicable.

### OTHER U.S. FEDERAL REGULATIONS:

- The component of this product is not subject to the reporting requirements of CFR 29 1910.1000.
- The component of this product is not subject to the reporting requirements of Section 112® of the Clean Air Act.
- The component of this product is not a Class I or Class II ozone depleting chemical (40 CFR part 82).

The component of this product is not listed under Table 1 as Regulated Substances, per 40 CFR, Part 68, of the Risk Management for Chemical Release Prevention.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):  
The component of this product is not on the California Proposition 65 Lists.

**ADDITIONAL CANADIAN REGULATIONS:**

**CANADIAN DSL/NDSL INVENTORY STATUS:** The component of this product is included in the DSL Inventory.

**CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:**

The component of this product is not on the CEPA Priorities Substances Lists.

**CANADIAN WHMIS CLASSIFICATION:** This product does not meet the criteria to be classified as a Controlled Product.

**CANADIAN WHMIS SYMBOLS:** Not applicable.

**ADDITIONAL EUROPEAN UNION REGULATIONS:**

**EU LABELING/CLASSIFICATION:** This product does not meet the definition of hazardous as defined by European Economic Community Guidelines.

**EU CLASSIFICATION:** Not applicable.

**EU RISK PHRASES:** R 36 (irritating to eyes); R 37 (irritating to respiratory system)

**EU SAFETY PHRASES:** S 22 (do not breathe dust); S 25 (avoid contact with eyes)

**EUROPEAN COMMUNITY ANNEX II HAZARD SYMBOL:** Not applicable

**EUROPEAN UNION CLASSIFICATION ON COMPONENTS:**

**CARBON:** A classification by the European Union Directives has not yet been published for this compound.

## **Section 16: Other Information**

The information in this SDS was obtained from sources which we believe are reliable. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.