

Section 1: Product & Company Information

Product Identifier: AquaLife Saltwater Activate

Other Means of Identification

Product Number: None

Recommended Use and Restrictions on Use

Recommended Use: For commercial use a conditioner for ornamental aquariums.

Restrictions on Use: Not to be used as a pesticide.

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

E-mail: cs@aqualifesupport.com

Emergency Phone Number: 865/588-0108

Section 2: Hazards Identification

GHS Hazard Classification(s)

All bacteria contained in AquaLife Activate Freshwater for aquariums are certified by ATCC (American Type Culture Collection) as BioSafety Level 1. BioSafety Level 1 bacteria are non-hazardous and do not require special handling.

Physical Hazard(s): Not classified

Health Hazard(s): Not classified

Environmental Hazard(s): Not classified

Label Elements

Signal Word: No signal word

Hazard Symbol(s): No symbol

Hazard Statement(s): Not applicable

Precautionary Statements

General: Not applicable

Prevention: Not applicable

Response: Not applicable

Storage: Not applicable

Disposal: Not applicable

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

Section 3: Composition/Information on Ingredients

Compound	Percent	CAS #
Non-pathogenic, <i>Bacillus subtilis</i> bacteria in spore form	150-250 mg / liter of viable bacterial solids	N/A
Non-pathogenic, <i>Nitrosomonas</i> and <i>Nitrobacter</i> nitrifying bacteria adapted to saltwater conditions	150-250 mg / liter of viable bacterial solids	N/A
Non-pathogenic <i>Pseudomonas</i> bacteria adapted to saltwater conditions that consume organic waste and denitrify	150-250 mg / liter of viable bacterial solids	N/A

Other ingredients are trade secrets and are classified as non-hazardous by the ATCC.

Section 4: First Aid Measures

Inhalation

In case of inhalation of dust, remove victim to fresh air and keep at rest and warm. If victim feels unwell, call a doctor or physician.

Skin Contact

Wash contaminated area with soap and plenty of and water. Get medical advice if needed.

Eye Contact

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.

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.

RECOMMENDATIONS TO PHYSICIANS: Treat symptomatically. First aid responders should wear suitable protective equipment for eyes, skin, and protective mask depending on the situation.

Section 5: Fire Fighting Measures

FIRE EXTINGUISHING MATERIALS: Material is non-flammable.

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

Section 6: Accidental Release Measures

SPILL AND LEAK RESPONSE: Wear suitable protective equipment described in section 8. Sweep up scattered materials or vacuum them using a vacuum cleaner so as not to cause dust then collecting into an empty container. Do not eat drink or smoke near release area, handling, or storage location. Take measures to prevent the flow or spread of materials into drains, sewers, basements, or other closed areas.

Section 7: Handling and Storage

WORK PRACTICES AND HYGIENE PRACTICES: Install or use appropriate equipment and wear suitable protective apparatus described in Section 8. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid generating and breathing dusts or particulates generated by this product. Use in a well-ventilated location. Launder contaminated clothing before reuse.

STORAGE AND HANDLING PRACTICES: 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

Control Parameters

Occupational Exposure Limits

The product does not contain any relevant quantities of hazardous materials with critical values that have to be monitored in the workplace.

Section 9: Physical and Chemical Properties

Appearance:

Physical State:	Solid, prilled
Color:	Slightly amber colored liquid
Odor:	slightly musty to no odor
Odor Threshold:	No data available.
Specific Gravity:	1.020 to 1.025
pH:	7.8 to 8.8
Melting Point/Freezing Point:	100 deg C
Flash Point:	Non-combustible.
Evaporation Rate (butyl acetate=1):	0.3
Flammability (solid, gas):	No data available.
Upper/Lower Limit on Flammability or Explosive Limits	
Flammability Limit – Upper:	No data available.
Flammability Limit – Lower:	No data available.
Explosive Limit – Upper:	No data available.
Explosive Limit – Lower:	No data available.
Vapor Pressure:	0.023 atm
Vapor Density (air =1):	.62
Relative Density (water=1):	1.570 g/cm3
Solubility(ies):	
Solubility in water:	Soluble.
Solubility (other):	No data available.
Specific Gravity	1.56 (H2O = 1
Partition coefficient (n-octanol/water):	No data available.
Auto-Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.

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

Temperatures above the boiling point or flash point.

Incompatible Materials

Avoid contact with: Strong acids. Strong bases. Strong oxidizers.

Hazardous Decomposition Products

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

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 >20,000.

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.

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

Ecotoxicity

This product will not biodegrade in the environment.

Acute Hazards to the Aquatic Environment

Fish	Not expected to harm plants or animals.
Aquatic Invertebrates	Not expected to harm plants or animals.
Toxicity to Aquatic Plants	Not expected to harm plants or animals.

Chronic Hazards to the Aquatic Environment

Fish	Not expected to harm plants or animals..
Aquatic Invertebrates	Not expected to harm plants or animals.
Toxicity to Aquatic Plants	Not expected to harm plants or animals.

Persistence and Degradability

Biodegradation	No data available.
BOD/COD Ratio	No data available.

Section 13: Disposal Considerations

PREPARING WASTES FOR DISPOSAL:

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, EU Member States, Australia, and Japan. When disposing, consult to a certificated waste trader or local office if they deal with the waste. 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.

EUROPEAN UNION EWC CODE: Waste from this product is NOT considered as a hazardous waste pursuant to the relevant EEC Directive on hazardous waste, and is NOT subject to the provisions of that directive.

Section 14: Transportation Information

US Department of Transportation (DOT)

This material is not regulated as a hazardous material for transport by the U.S. Department of Transportation in accordance with 49 CFR 172.101.

When transporting, confirm no leakage from containers. When loading, prevent containers from failing,dropping or damaging. Take preventative measures against collapse.

Section 15: Regulatory Information

ADDITIONAL 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

Disclaimer

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.