

## Section 1: Product & Company Information

Product Identifier: Erythromycin

Other Means of Identification

Product Number: 16486

Recommended Use and Restrictions on Use

Recommended Use: Disease treatment in 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](http://www.aqualifesupport.com)

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

Emergency Phone Number: 865/588-0108

## Section 2: Hazards Identification

GHS Hazard Classification(s)

Not classified as hazardous according to OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012).

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: See Section 7 for Storage and Section 13 for Disposal information

Hazard(s) not otherwise classified (HNOC): May be harmful by inhalation, ingestion, or skin absorption.  
May cause eye, skin, or respiratory system irritation.

### Section 3: Composition/Information on Ingredients

#### Substance

Chemical Identity	Common Name/Synonym(s)	CAS #	Weight %	Impurity or Stabilizing Additive
(-)-Erythromycin	Magnesium dichloride Hexahydrate	114-07-8	100	None

### Section 4: First Aid Measures

#### Inhalation

Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

#### Skin Contact

Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse

#### Eye Contact

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.

#### Ingestion

Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

#### Indication of immediate medical attention and special treatment needed

##### Hazards

No data available.

##### Treatment

No data available

### Section 5: Fire Fighting Measures

#### Suitable (and Unsuitable) Extinguishing Media

##### Suitable Extinguishing Media

Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers.

##### Unsuitable Extinguishing Media

A solid water stream may be inefficient.

#### Hazardous combustion products

No data available

#### Special Protective Equipment and Precautions for Firefighters

##### Special Fire-Fighting Equipment Procedures

Firefighters should wear full protective clothing, including self-contained breathing apparatus. If possible control runoff from fire control or dilution water to prevent environmental contamination

#### Special Protective Equipment for Fire-Fighters

As in any fire, wear self-contained breathing apparatus pressure-demand (OSHA/NIOSH approved or equivalent) and full protective gear.

### Section 6: Accidental Release Measures

#### Personal Precautions, Protective Equipment and Emergency Procedures

Avoid raising and breathing dust, and provide adequate ventilation. Ventilate enclosed areas. Do not walk through spilled material. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). Evacuate area. Remove soiled clothing and launder before reuse. Avoid all skin contact with the spilled material. Have emergency equipment readily available.

#### Methods and Materials for Containment and Clean-Up

Contain spill and collect, as appropriate. Transfer to a chemical waste container for disposal in accordance with local regulations.

#### Notification Procedures

Notify authorities if any exposure to the public or environment occurs or is likely to occur. Local authorities should be advised if significant spillages cannot be contained.

#### Environmental Precautions

Take steps to avoid release into the environment, if safe to do so. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## Section 7: Handling and Storage

#### Precautions for Safe Handling

All employees who handle this material should be trained to handle it safely. Do not breath dust. Avoid all contact with skin and eyes. Use this product only with adequate ventilation. Wash thoroughly after handling. Avoid contact with water or moisture.

#### Conditions for Safe Storage, including any Incompatibilities

Keep container tightly closed when not in use. Store containers in a cool, dry location away from water, direct sun light, sources of intense heat, or where freezing is possible. Store in accordance with information listed on the product insert.

## 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.

#### Appropriate Engineering Controls

Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is not leakage from the equipment).

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

##### Eye/Face Protection

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

##### Skin Protection

##### Hand Protection

Wear appropriate chemical resistant gloves.

##### Other

Wear appropriate chemical resistant clothing.

#### Respiratory Protection

No Specific Guidelines are available. If airborne concentrations are above the applicable exposure limits, use NIOSH-approved respiratory protection. An approved dust, and air-purifying respirator may be adequate. If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHA Standard (29 CFR 1910.134), applicable U.S. State regulations Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, use a full- facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply is required under OSHA'S Respiratory Protection Standard (1910.134-1998)

#### 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:	Crystalline solid
Color:	White
Odor:	Odorless
Odor Threshold:	No data available.
pH:	No data available.
Melting Point/Freezing Point:	No data available.
Initial Boiling Point and Boiling Range:	No data available.
Flash Point:	No data available.
Evaporation Rate (butyl acetate=1):	No data available.
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:	No data available.
Vapor Density (air =1):	No data available.
Solubility(ies):	
Solubility in water:	No data available.
Solubility (other):	~0.5 mg/ml in a 1:1 solution of EtOH:PBS (pH 7.2); ~30 mg/ml in EtOH; ~15 mg/ml in DMSO & DMF
Partition coefficient (n-octanol/water):	No data available.
Auto-Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Viscosity:	No data available.
Molecular Weight:	733.9
Formula:	C37H67NO13

## Section 10: Stability and Reactivity

### Reactivity

No dangerous reaction known under conditions of normal use.

### Chemical Stability

Avoid high temperatures, exposure to moisture and incompatible materials.

### Possibility of Hazardous Reactions

Hazardous polymerization does not occur.

### Conditions to Avoid

No data available.

### Incompatible Materials

This material is incompatible with strong oxidizers.

### Hazardous Decomposition Products

carbon dioxide, carbon monoxide, nitrogen oxides

## Section 11: Toxicological Information

### Information on routes of exposure

Ingestion:	No information available.
Inhalation:	May cause respiratory tract irritation.
Skin Contact:	May cause skin irritation.
Eye Contact:	May cause eye irritation.

### Acute Toxicity (List all possible routes of exposure)

Erythromycin - Toxicity Data: Oral TDLO (child): 250 mg/kg; Oral LD50 (rat): 4600 mg/kg; Subcutaneous LDLo (rat): 427 mg/kg; Intraperitoneal LD50 (mouse): 280 mg/kg; Subcutaneous LD50 (mouse): 1800 mg/kg; Oral TDLO (human): 17 mg/kg;

### Information on Toxicological Effects:

Erythromycin - Investigated as a drug, mutagen, natural product, and reproductive effector.

### Skin Corrosion/Irritation

May cause skin irritation

Serious Eye Damage/Eye Irritation	Exposure to dust may cause mechanical irritation. Excessive concentrations of nuisance dust in the workplace may reduce visibility and may cause unpleasant deposits in eyes.
Respiratory/Skin Sensitization	May cause respiratory tract irritation.

## Section 12: Ecological Information

Ecotoxicity	
Avoid release into the environment.	
Acute Hazards to the Aquatic Environment	
Fish	No data available.
Aquatic Invertebrates	No data available.
Toxicity to Aquatic Plants	No data available.
Chronic Hazards to the Aquatic Environment	
Fish	No data available.
Aquatic Invertebrates	No data available.
Toxicity to Aquatic Plants	No data available.
Persistence and Degradability	No data available.
Bioaccumulative Potential	
Bioconcentration Factor (BCF)	No data available on bioaccumulation.
Partition Coefficient n-octanol / water (log Kow)	No data available.
Mobility in Soil	No data available.
Other Adverse Effects	No data available.

## Section 13: Disposal Considerations

Disposal Instructions	Dispose in accordance with local, state, and federal regulations.
Contaminated Packaging	Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## 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.

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

## Section 15: Regulatory Information

US Federal Regulations	
Toxic Substance Control Act (TSCA), Chemical Substance Inventory, Section 8(b)	This product or ingredient(s) are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.
Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substance List (40 CFR 302.4)	No chemical(s) in this material are subject to the reporting requirements of CERCLA.
Clean Air Act (CAA), Section 112(r)	No chemical(s) in this material are subject to the reporting requirements of CAA.
Emergency Planning and Community Right-To-Know Act (EPCRA)	
EPCRA 302 Extremely Hazardous Substance	No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 302.
EPCRA 304 Emergency Response Notification	No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 304.

#### EPCRA 311/312 Emergency and Hazardous Materials Reporting

Fire Hazard: No  
Sudden Release of Pressure: No  
Reactive: No  
Acute (Immediate) Health Hazard: Yes  
Chronic (Delayed) Health Hazard: No

#### EPCRA 313 Toxic Chemical Release Inventory (TRI) Reporting

This material does not contain any chemical(s) with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### US State Regulations

##### California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

*Important Note: Due to the changing nature of regulatory requirements, the information in this document should NOT be considered all-inclusive or authoritative. Users should make their own investigations to determine the suitability of the information for their particular purposes. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements.*

## Section 16: Other Information

#### Hazardous Materials Identification System (HMIS®) Classification

Health Hazard: 1  
Chronic Health Hazard: / \*  
Flammability: 0  
Physical Hazard: 0  
(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

#### National Fire Protection Association (NFPA 704) Rating

Health Hazard: 1  
Fire Hazard: 0  
Reactivity Hazard: 0  
Special: N/A W OX COR POI  
(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

#### References

HSDB® - Hazardous Substances Data Bank

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