



Safety Data Sheet

Revision Date: 20-November-2017

24 Hour Emergency #: 1-800-255-3924

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME: Magnesium Chloride 2M
CATALOG NUMBER: 340-034-721
CHEMICAL NAME: An aqueous solution of Magnesium chloride.

Company/Undertaking Identification

Quality Biological Inc.
7581 Lindbergh Drive
Gaithersburg, MD 20879
301-840-9331

2. HAZARDS IDENTIFICATION

GHS – Classification

The product contains no substances which at their given concentration, are considered to be hazardous to health

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | EC No. | REACH Reg. No. | CAS-No | Weight % | Classification |
|--------------------|-------------------|----------------|-----------|----------|----------------|
| Magnesium chloride | EEC No. 232-094-6 | Not available | 7786-30-3 | 40.7 | - |

4. FIRST AID MEASURES

| | |
|---------------------------|---|
| Skin contact | Immediately wash skin with copious amounts of water followed by washing with soap and copious amounts of water. Remove all contaminated clothing. |
| Eye contact | Flush eyes with copious amounts of water for at least 15 minutes with eyelids separated and call a physician. |
| Ingestion | Never give anything by mouth to an unconscious person |
| Inhalation | If person is unconscious seek emergency medical attention, if person is conscious remove to fresh air and call a physician |
| Notes to physician | Treat symptomatically. |

5. FIRE-FIGHTING MEASURES

2M Magnesium Chloride

General: Wear Self-Contained breathing apparatus in pressure demand, MSHA/NIOSH approved. During a fire, irritating and toxic gases may be generated by thermal decomposition.

Extinguishing Media: Use extinguishing media appropriate to surrounding fire conditions..

Autoignition Temperature: N/A

Explosion limits: Not sensitive.

Flash Point: Not flammable.

6. ACCIDENTAL RELEASE MEASURES

Use Personal Protective Equipment: Including Chemical Splash Goggles, Chemical Resistant Gloves, and appropriate clothing to prevent skin exposure. In addition, a Respiratory protection program that complies with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Spills and Leaks: Absorb spill with inert material (e.g. Vermiculite, sand, earth) then place in a suitable container. Clean up spills immediately, observing precautions in the Sections 6 and 8. Provide ventilation.

7. HANDLING AND STORAGE

**Handling
Storage**

Handle in accordance with good industrial hygiene and safety practice.
Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls

Exposure limits

Engineering measures Ensure adequate ventilation, especially in confined areas

Personal protective equipment

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment
Hand protection Protective gloves
Eye protection Safety glasses with side-shields
Skin and body protection Lightweight protective clothing.
Hygiene measures Handle in accordance with good industrial hygiene and safety practice
**Environmental exposure
Controls** Prevent product from entering drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form Liquid



Important Health Safety and Environmental Information

| | | |
|---------------------------------|--------------------------|----------------------|
| Boiling point/range | °C No data available | °F No data available |
| Melting point/range | °C No data available | °F No data available |
| Flash point | °C No data available | °F No data available |
| Autoignition temperature | °C No data available | °F No data available |
| Oxidizing properties | No information available | |
| Water solubility | No data available | |

10. STABILITY AND REACTIVITY

| | |
|---|--|
| Stability | Stable under recommended storage conditions. |
| Materials to avoid | No information available |
| Hazardous decomposition products | Hydrogen chloride gas |
| Polymerization | Hazardous polymerisation does not occur. |
| Incompatible Products | Strong oxidizing agents. |

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Irritating to eye, skin and respiratory system.

Principle Routes of Exposure/ Potential Health effects

| | |
|-------------------|--------------------------|
| Eyes | No information available |
| Skin | No information available |
| Inhalation | No information available |
| Ingestion | No information available |

Specific effects

| | |
|------------------------------|--------------------------|
| Carcinogenic effects | No information available |
| Mutagenic effects | No information available |
| Reproductive toxicity | No information available |
| Sensitization | No information available |

Target Organ Effects

Central nervous system (CNS), Kidneys.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic organisms.

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Microtox | Daphnia Magna (Water Flea) |
|--------------------|--|---|----------|----------------------------|
| Magnesium chloride | EC50 = 2200 mg/L 72 h LC 1970-3880 mg/L | LC50 1970-3880 mg/L Pimephales promelas 96 h | | EC50 = 1400 mg/L 24 h |



| | | | | |
|--|--|---------------------------------------|--|--|
| | | LC50= 4210 mg/L Gambusia affinis 96 h | | |
|--|--|---------------------------------------|--|--|

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations

14. TRANSPORT INFORMATION

IATA

| | |
|-----------------------------|---|
| Proper shipping name | Not classified as dangerous in the meaning of transport regulations |
| Hazard Class | No information available |
| Subsidiary Class | No information available |
| Packing group | No information available |
| UN-No | No information available |

15. REGULATORY INFORMATION

International Inventories

U.S. Federal Regulations

SARA 313

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contains HAPs.

U.S. State Regulations

California Proposition 65

This product does not contain chemicals listed under Proposition 65

16. OTHER INFORMATION

This material is sold for research and development purposes only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.



Quality Biological™

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2M Magnesium Chloride

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End of Safety Data Sheet