

Conforms to 93/112/EC and ISO 11014-1

Responsible Name Pierce Administration

? **Section 1. Chemical Product and Company Identification**

Product name **Magnesium chloride hexahydrate**

Product No. 0017878

Supplier	<i>In USA:</i> Pierce P.O. Box 117 Rockford, IL 61105 USA 815.968.0747 or 1.800.874.3723	<i>In Europe:</i> Perbio Science Industriezone III Industrielaan 27 9320 Erembodegem-Aalst Belgium Tel:+32 53 83 44 04 Fax:+32 53 83 76 38	Manufacturer	Pierce Biotechnology P.O. Box 117 Rockford, IL 61105 USA 815.968.0747 or 1.800.874.3723
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In Case of Emergency CALL CHEMTREC:
800.424.9300
OUTSIDE US:
202.483.7616

Print Date 11/11/2002
Validation Date **11/4/2002**
MSDS# 1275

Intended Use Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

Chemical name Magnesium dichloride hexahydrate

 **Section 2. Composition, Information on Ingredients**

Substance/Preparation : Substance

<u>Ingredient Name</u>	<u>CAS No.</u>	<u>%</u>	<u>EC Number</u>	<u>Symbol</u>	<u>R-Phrases</u>
1) Magnesium chloride hexahydrate	7791-18-6	98-100	Not available.	Xi	R36/37/38

 **Section 3. Hazards Identification**

United States Review the most current and approved institutional guideline, protocol, standard operating procedure(s) and MSDS(s) for the proper handling of institutional materials/equipment associated with the use of this product.

Emergency Overview WARNING!
CAUSES DAMAGE TO THE FOLLOWING ORGANS: KIDNEYS, NERVOUS SYSTEM, MUCOUS MEMBRANES, GASTROINTESTINAL TRACT, RESPIRATORY TRACT, SKIN, EYES.
MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.
Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Routes of Entry Absorbed through skin. Eye contact. Inhalation. Ingestion.

Potential Acute Health Effects Hazardous in case of inhalation (lung irritant). Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, .

Carcinogenic Effects Data **CARCINOGENIC EFFECTS:** Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.

Medical Conditions Aggravated by Overexposure: Repeated or prolonged exposure is not known to aggravate medical condition.

Overexposure /Signs/Symptoms Not available.

Europe

Classification **R36/37/38**
Physical/chemical hazards Not applicable.
Human health hazards Irritating to eyes, respiratory system and skin.
Environmental hazards Not applicable.

See Toxicological Information (section 11)

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+ Section 4. First Aid Measures

Notice to Reader Get immediate medical attention.

Effects and symptoms

- Inhalation* Hazardous in case of inhalation (lung irritant).
Ingestion Slightly hazardous in case of ingestion.
Skin Contact Slightly hazardous in case of skin contact (irritant, permeator). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
Eye Contact Slightly hazardous in case of eye contact (irritant).
Aggravating conditions Repeated or prolonged exposure is not known to aggravate medical condition.

First-Aid Measures

- Inhalation* If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
Skin Contact In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Eye Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Notes to Physician Not available.
Protection of first-aiders Not available.

🔥 Section 5. Fire Fighting Measures

- Flammability of the Product* Non-flammable.
Flash Points Not applicable.

Fire Hazards in Presence of Various Substances Not applicable.

Fire Fighting Media and Instructions Not applicable.

Protective Clothing (Fire) Not applicable.

Special Remarks on Fire Hazards Store under nitrogen. When heated to decomposition it emits toxic fumes.

Hazardous thermal (de)composition products Not applicable.

Section 6. Accidental Release Measures

Personal precautions Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Environmental Precautions and Clean-up Methods Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Small Spill and Leak Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

◇ Section 7. Handling and Storage

Handling Avoid contact with eyes, skin, and clothing. Avoid breathing vapors or spray mists. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area.

Intended Use Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

Packaging materials

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Section 10. Stability and Reactivity

- Stability and Reactivity** The product is stable.
- Conditions to avoid** Not available.
- Materials to avoid** Reactive with oxidizing agents, moisture.
- Hazardous Decomposition Products** Not applicable.



Section 11. Toxicological Information

- Toxicity to Animals** Acute oral toxicity (LD50): 2800 mg/kg [Rat.].
- Chronic Effects on Humans** Causes damage to the following organs: kidneys, the nervous system, mucous membranes, gastrointestinal tract, upper respiratory tract, skin, eyes.
- Other Toxic Effects on Humans** Hazardous in case of inhalation (lung irritant).
Slightly hazardous in case of eye contact (irritant), of ingestion, .
- Special Remarks on Toxicity to Animals** Not available.
- Special Remarks on Chronic Effects on Humans** Not available.
- Special Remarks on Other Toxic Effects on Humans** Material is irritating to mucous membranes and upper respiratory tract.



Section 12. Ecological Information

- Mobility** Not available.
- Persistence/degradability** Not available.
- Bioaccumulative potential** Not available.
- Ecotoxicity** Not available.
- Germany water class** VCI WGK: No products were found.



Section 13. Disposal Considerations

- Waste Information** Waste must be disposed of in accordance with federal, state and local environmental control regulations.
- Waste Stream** Not available.

Consult your local or regional authorities.



Section 14. Transport Information

Contact the supplier for all information regarding the proper transportation method for this material.



Section 15. Regulatory Information

Label Requirements

(Europe)

R36/37/38- Irritating to eyes, respiratory system and skin.

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Irritant****HCS Classification** Irritating substance.**U.S. Federal Regulations** TSCA: No products were found.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

SARA 313 toxic chemical notification and release reporting: No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

WHMIS (Canada) Not controlled under WHMIS (Canada).

No products were found.

International Regulations**EINECS** Not available.**DSCL (EEC)** R36/37/38- Irritating to eyes, respiratory system and skin.**International Lists** Australia (NICNAS): Magnesium chloride hexahydrate

Germany water class: Magnesium chloride hexahydrate

Philippines (RA6969): Magnesium chloride hexahydrate

State Regulations No products were found.**California prop. 65:** No products were found.**Section 16. Other Information****Hazardous Material Information System (U.S.A.)**

Health	*	1
Fire Hazard		0
Reactivity		0
Personal Protection		g

National Fire Protection Association (U.S.A.)

References -Hawley, G.G.. The Condensed Chemical Dictionary, 11e ed., New York N.Y., Van Nostrand Reinold, 1987.
 -SAX, N.I. Dangerous Properties of Industrial Materials. Toronto, Van Nostrand Reinold, 6e ed. 1984.
 -The Sigma-Aldrich Library of Chemical Safety Data, Edition II.

History of Document Changes Any information changes since last document version are marked with a triangle symbol. 

Magnesium chloride hexahydrate

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Full text of R-Phrases Irritating to eyes, respiratory system and skin.
referenced under headings 2 and 3:

Intended Use Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific applications.

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Verified by Pierce Administration.

Date of Previous Issue No Previous
Validation

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Version

0.01

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.