

Catalog Number: 191421 Revision date: 24-Apr-2006

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 191421

Product name: MAGNESIUM CHLORIDE HEXAHYDRATE ACS REAGENT GRADE

Supplier:

MP Biomedicals, LLC 29525 Fountain Parkway Solon, OH 44139

tel: 440-337-1200

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number Components MAGNESIUM CHLORIDE 7791-18-6

HEXAHYDRATE

Weight % 90 - 100% **ACGIH Exposure Limits:** None

OSHA Exposure Limits:

None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: May cause skin irritation and/or dermatitis

Principle routes of exposure: Skin

Inhalation: May cause irritation of respiratory tract

Ingestion: May be harmful if swallowed. **Skin contact:** May cause allergic skin reaction

Eye contact: Avoid contact with eyes

Statements of hazard MAY CAUSE ALLERGIC SKIN REACTION.

Statement of Spill or Leak - ANSI Label Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.

Precautions - ANSI Label Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not breathe dust

4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where

possible).

Inhalation: Move to fresh air. Call a physician immediately.

Skin contact: Rinse immediately with plenty of water and seek medical advice

Ingestion: Do not induce vomiting without medical advice.

Eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Protection of first-aiders: No information available

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Medical conditions aggravated by exposure: None known

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO2, water spray or `alcohol` foam.

Specific hazards: Fine powder, thin sheets, chips and turnings may ignite and burn with intense heat and a brilliant white flame. Powders

burn with intense heat and a brilliant white flame. Powders may form explosive mixtures with air that may be ignited by

a spark.

Unusual hazards: None known

Special protective equipment for firefighters:Wear self contained breathing apparatus for fire fighting if

necessary. In the event of fire and/or explosion do not

breathe fumes.

Not determined

Specific methods: Water mist may be used to cool closed containers.

Flash point:

Autoignition temperature:

NFPA rating:

NFPA Health: 0 NFPA Flammability: 0 NFPA Reactivity: 0 Water mist may be used to cool closed containers. Not determined

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:Use personal protective equipment. **Environmental precautions:**Prevent product from entering drains.

Methods for cleaning up:Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Storage:

ROOM TEMPERATURE

Handling:Use only in area provided with appropriate exhaust

ventilation.

Safe handling advice: Wear personal protective equipment. Remove and wash

contaminated clothing before reuse.

Technical measures/storage conditions: Keep container tightly closed in a dry and well-ventilated

place. Keep away from open flames, hot surfaces and

sources of ignition

Incompatible products:Oxidising and spontaneously flammable products

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation, especially in confined areas.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: Breathing apparatus only if aerosol or dust is formed.

Hand protection: Pvc or other plastic material gloves

Skin and body protection: Impervious clothing Long sleeved clothing

Eye protection: Safety glasses with side-shields

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid

Formula: MgCl2 • 6H2O

Molecular weight:203.3Melting point/range:118°C

Boiling point/range:No Data available at this time.

Density:2.316-2.33 g/cm3Vapor pressure:No data availableEvaporation rate:No data availableVapor density:No data available

Solubility (in water): Soluble

Flash point: Not determined Autoignition temperature: Not determined

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Polymerization:None under normal processing.

Hazardous decomposition products:Hydrogen chloride gas
Materials to avoid:
Strong oxidising agents

Attacks steel in the presence of moisture.

Conditions to avoid: Exposure to air or moisture over prolonged periods.

11. TOXICOLOGICAL INFORMATION

Product Information Acute toxicity

ComponentsRTECS Number:Selected LD50s and LC50sMAGNESIUM CHLORIDE
HEXAHYDRATEOM2975000Oral LD50 Rat : 8100 mg/kgOral LD50 Mouse : 7600 mg/kg

Chronic toxicity: Chronic exposure may cause nausea and vomiting, higher exposure causes

unconsciousness.

Local effects: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting

Specific effects: May include moderate to severe erythema (redness) and moderate edema (raised

skin), nausea, vomiting, headache.

Primary irritation:
Carcinogenic effects:
Mutagenic effects:
Reproductive toxicity:

No data is available on the product itself.
No data is available on the product itself.
No data is available on the product itself.

12. ECOLOGICAL INFORMATION

Mobility:No data availableBioaccumulation:No data availableEcotoxicity effects:No data available

Aquatic toxicity: May cause long-term adverse effects in the aquatic

environment.

Components U.S. DOT - Appendix B -

Marine Pollutan

U.S. DOT - Appendix B - Severe Marine Pollutants

Not Listed

United Kingdom - The Red

List: Not Listed

MAGNESIUM CHLORIDE Not Listed Not HEXAHYDRATE

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Components Germany VCI (WGK) World Health Organization Ecotoxicity - Fish Species

(WHO) - Drinking Water Data

MAGNESIUM CHLORIDE Not Listed Not Listed Not Listed Not Listed

MAGNESIUM CHLORIDE Not Listed Not Listed Not Listed HEXAHYDRATE

Components Ecotoxicity - Freshwater Ecotoxicity - Microtox Data Ecotoxicity - Water Flea

Algae Data

MAGNESIUM CHLORIDE Not Listed Not Listed Not Listed

HEXAHYDRATE NOT LISTED NOT LISTED NOT LISTED

Components EPA - ATSDR Priority List EPA - HPV Challenge California - Priority Toxic

MAGNESIUM CHLORIDE Not Listed Not Listed Not Listed Not Listed Not Listed

Components California - Priority Toxic Pollutants California - Priority Toxic Pollutants

MAGNESIUM CHLORIDE Not Listed Not Listed HEXAHYDRATE

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Waste disposal must be in accordance with appropriate

Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished

with this material may be hazardous.

Contaminated packaging: Do not re-use empty containers

14. TRANSPORT INFORMATION

UN/ld No: Not regulated

DOT:

Proper shipping name: Not Regulated

Components U.S. DOT - Appendix A Table 1 - Reportable Quantities

MAGNESIUM CHLORIDE Not Listed

HEXAHYDRATE

TDG (Canada):

WHMIS hazard class: Non-controlled: :

IMDG/IMO

IMDG - Hazard Classifications Not Applicable

Components U.S. DOT - Appendix B - Marine Pollutan U.S. DOT - Appendix B - Severe Marine

Pollutants

MAGNESIUM CHLORIDE Not Listed Not Listed HEXAHYDRATE

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IMO-labels:

15. REGULATORY INFORMATION

International Inventories

Components

MAGNESIUM CHLORIDE HEXAHYDRATE

Inventory - United States TSCA - Sect. 8(b) Present Canada DSL Inventory List -Present Australia (AICS): Present **Inventory - China:** Present **EU EINECS List -**232-094-6 1-233 **Inventory - Japan: Korean KECL:** KE-22673 **Philippines PICCS:** Present

U.S. regulations:

Components California Proposition 65 Massachusetts Right to New Jersey Right to Pennsylvania Right to Know

- Know List: Know List: List: MAGNESIUM CHLORIDE Not Listed [present] sn 1136 [present]

HEXAHYDRATE

Components Florida substance List: Rhode Island Right to Illinois - Toxic Air Connecticut - Hazardous Air

MAGNESIUM CHLORIDE [present] Know List: Contaminants Pollutants
Flammable Not Listed Not Listed

HEXAHYDRATE

HEXAHYDRATE

Components SARA 313 Emission CERCLA/SARA - Section NTP: IARC:

reporting/Toxic Release 302 Extremely Haz

of Chemicals

MAGNESIUM CHLORIDE Not Listed None None

SARA 313 Notification: The above is your notification as to the SARA 313 listing for this product(s) pursuant

to Section 313 of Title III of the Superfund Ammendments and Reauthorization Act of

1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community

Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in

Washington, DC or Alaska).

State Notification: The above information is your notice as to the Right-to-Know listings of the stated

product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive

hazards; and the compounds environmental impact if accidentally released.

16. OTHER INFORMATION

Prepared by: Health & Safety

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End of Safety Data Sheet

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