

MATERIAL DATA SFETY DATA SDS / MSDS

Section 1

Product Description

Magnesium Chloride 0.01M(0.02N) Standard Solution **Product Name:**

Science education applications **Recommended Use:**

Magnesium Chloride, Aqueous Solution Synonyms:

Bio-Chem Chemicals Distributor:

5455Nicholson Road , Science Market Ambala Cantt, 133001-Haryana

+91 8295241953

info@biofinechemical.com -www.biofinechemical.com +91 9992151495(10.00am-06.30pm)(Office Hours)

Section 2

Chemical Information:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

GHS Classification:

Other Safety Precautions: Not a dangerous substance according to GHS classification criteria.

Section 3

Composition / Information on Ingredients

Chemical Name CAS# %_ 99.05 7732-18-5 Water Magnesium Chloride, 6-Hydrate 7791-18-6 0.95

Section 4

First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

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

Skin Contact: After contact with skin, wash immediately with plenty of water.

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Ingestion:

Section 5

Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.

Firefighters should wear full protective equipment and NIOSH approved self-contained Fire Fighting Methods and Protection:

breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: Hydrogen chloride, Metal Oxides,

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is

Released or Spilled:

No adverse health affects expected from the clean-up of spilled material. Avoid creating and

inhaling spray or mist.

No special spill clean-up considerations. Collect and discard in regular trash. Methods for Clean-up

Section 7

Handling and Storage

Do not breathe dust/vapor. Do not get in eyes, on skin, or on clothing. Retained residue may make empty Handling:

containers hazardous; use caution.

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

Green - general chemical storage Storage Code:

Section 8 Protection Information

ACGIH OSHA PEL

Chemical Name (TWA) (STEL) (TWA) (STEL)

No data available

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

Vapor Pressure: 14 (water)

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves: Nitrile

Section 9

Physical Data

Formula: Cl2Mg

Molecular Weight: 95.21 g/mol Evaporation Rate (BuAc=1): Slightly < 1
Appearance: Colorless Vapor Density (Air=1): 0.7 (water)

Odor: None Specific Gravity: Approx. 1.0

Odor Threshold: No data available Solubility in Water: Soluble

pH: No data available

Melting Point: Estimated 0 C

Log Pow (calculated): No data available

Autoignition Temperature: No data available

Boiling Point: 100 C

Decomposition Temperature: No data available

Flash Point: No data available Viscosity: No data available

Flammable Limits in Air: N/A N/A Percent Volatile by Volume: 99.05%

Section 10

Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: Metal Oxides,, Hydrogen chloride

Hazardous Polymerization: Will not occur

Section 11

Toxicity Data

Routes of Entry Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): N/A

Delayed Effects: No data available

Acute Toxicity:

Chemical Name CAS Number Oral LD50 Dermal LD50 Inhalation LC50

Water 7732-18-5 Oral LD50 Rat

90000 mg/kg

Magnesium Chloride, 6-Hydrate 7791-18-6 Oral LD50 Rat

8100 mg/kg

Carcinogenicity:

Chemical Name CAS Number IARC NTP OSHA

No data available

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA.

Section 12

Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility:No dataPersistence:No dataBioaccumulation:No dataDegradability:No dataOther Adverse Effects:No data

Chemical NameCAS NumberEco ToxicityWater7732-18-5No data available

Section 13

Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14

N/A

Transport Information

Ground - DOT Proper Shipping Name:

Air - IATA Proper Shipping Name: Not regulated for air transport by IATA. Section 15 **Regulatory Information TSCA Status:** All components in this product are on the TSCA Inventory. CAA 112(2) TQ **Chemical Name** CAS § 313 Name § 304 RQ **CERCLA RQ** § 302 TPQ

Number

No data available