Magnesium Nitrate, Hexahydrate



Section 1 Product Description

Product Name:Magnesium Nitrate, HexahydrateRecommended Use:Science education applications

Synonyms: Magnesium (II) Nitrate; Nitric Acid, Magnesium Salt

Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 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.

No known OSHA hazards.

Acute Toxicity Oral Contains
Acute Toxicity Dermal Contains
Acute Toxicity Inhalation Gas

100 % of the mixture consists of ingredient(s) of unknown toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity

Contains
Acute Toxicity Inhalation Vapor

100 % of the mixture consists of ingredient(s) of unknown toxicity

Contains

Acute Toxicity Inhalation Dust/Mist 100 % of the mixture consists of ingredient(s) of unknown toxicity

Contains

Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Magnesium Nitrate(CAS#13446-18-9)98-100%
 13446-18-9
 100

Section 4 First Aid Measures

Emergency and First Aid Procedures

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

Eyes: 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.

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

Section 5 Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.

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

breathing apparatus.

Fire and/or Explosion Hazards: Product is a strong oxidizer. Risk of explosion if heated under confinement. Contact with

combustible materials, flammable materials, or powdered metals can cause fire or

explosion. Can react violently with reducing agents.

Hazardous Combustion Products: Nitrogen oxides, Magnesium

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Poses little or no immediate hazard Ventilate the contaminated area. Isolate area. Keep unnecessary personnel away. Avoid the generation of dusts during clean-up.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Vacuum or sweep up material and place in a disposal container

Section 7

Handling and Storage

Keep container tightly closed in a cool, well-ventilated place. This material should be kept in an area suitable for Handling:

the storage of flammable liquids. Store away from oxidizing agents, sparks and flame. Keep away from

combustible material.

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

Storage Code: Green - general chemical storage

Section 8 Protection Information

ACGIH OSHA PEL Chemical Name (TWA) (STEL) (TWA) (STEL) No data available N/A N/A N/A N/A

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.

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

Respiratory Protection:

No respiratory protection required under normal conditions of use. If ventilation is not

sufficient to effectively prevent buildup of vapor/mist/fume/dust, appropriate

NIOSH/MSHA respiratory protection must be provided.

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

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. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Where use can result in skin contact, practice good personal hygiene. Inspect gloves for chemical break-through and replace at regular

intervals. Clean protective equipment regularly.

Gloves: Nitrile

Section 9

Physical Data

Formula: Mg(NO3)2 6H2O Molecular Weight: 256.41

Appearance: Colorless to White Solid

Odor: No data available

Odor Threshold: No data available pH: 5 - 7 at 50 g/l at 20 °C Melting Point: No data available

Boiling Point: 330 C Flash Point: > 93 C

Flammable Limits in Air: N/A

Vapor Pressure: N/A

Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: 1.64 Solubility in Water: Soluble

Log Pow (calculated): No data available Autoignition Temperature: No data available **Decomposition Temperature:** No data available

Viscosity: No data available Percent Volatile by Volume: N/A

Section 10

Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Incompatible Materials: Strong acids, Strong reducing agents, Organics,, Nitrates,, Keep away from combustible

material.

Hazardous Decomposition Products: Magnesium, Nitrogen oxides

Hazardous Polymerization: Will not occur

Section 11

Toxicity Data

Routes of Entry Ingestion, skin and eye contact.

Symptoms (Acute): N/A

Delayed Effects: No data available

Acute Toxicity:

Chemical Name CAS Number Oral LD50 Dermal LD50 Inhalation LC50

Magnesium Nitrate(CAS#13446-18-9)98- 13446-18-9 Oral LD50 Rat Not Not determined Not determined

100% determined 5440

mg/kg

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHAMagnesium Nitrate(CAS#13446-18-9)98-13446-18-9ListedNot listedNot listed

100%

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 Name CAS Number Eco Toxicity

N/A 13446-18-9

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

Transport Information

Ground - DOT Proper Shipping Name:Not Regulated for Transport (Hexahydrate only)

Air - IATA Proper Shipping Name:
Not regulated for air transport by IATA.

Section 15

Regulatory Information

TSCA Status: A component (or components) of this product is not listed on the TSCA Inventory of

Existing Chemical Substances. Product is for research and development use only.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	13446-18-9	No	No	No	No	No

Section 16

Additional Information

Revised: 09/09/2015 Replaces: 09/03/2014 Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

American Conference of Governmental	NTP	National Toxicology Program
Industrial Hygienists	OSHA	Occupational Safety and Health Administration
Chemical Abstract Service Number	PEL	Permissible Exposure Limit
Comprehensive Environmental Response,	ppm	Parts per million
Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
International Agency for Research on Cancer	TLV	Threshold Limit Value
Not Available	TSCA	Toxic Substances Control Act
	IDLH	Immediately dangerous to life and health
	Industrial Hygienists Chemical Abstract Service Number Comprehensive Environmental Response, Compensation, and Liability Act U.S. Department of Transportation International Agency for Research on Cancer	Industrial Hygienists Chemical Abstract Service Number Comprehensive Environmental Response, Compensation, and Liability Act U.S. Department of Transportation International Agency for Research on Cancer Not Available OSHA PEL RCRA SARA International Transportation TLV Not Available TSCA