Magnesium nitrate, 1M



File version: 1

SDS Date: 01 Dec 2016

# SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	1M Magnesium nitrate
PRODUCT CODES:	1008240
	1008241
MANUFACTURER:	Rigaku Reagents
ADDRESS:	9009 New Trails Drive
	The Woodlands, TX 77381
	USA
PHONE:	+1 (281) 362-2300
EMAIL:	ReagentOrders@Rigaku.com

CHEMICAL NAME: Magnesium nitrate CHEMICAL FORMULA: Mg(NO<sub>3</sub>)<sub>2</sub>

PREPARED BY: Rigaku Reagents

**SECTION 1 NOTES:** 

## **SECTION 2: HAZARDS IDENTIFICATION**

#### **EMERGENCY OVERVIEW:**

OSHA HAZARDS: Target Organ Effect, Carcinogen

TARGET ORGANS: Blood, central nervous system

### **GHS CLASSIFICATION:**

Skin irritation (Category 3) Eye irritation (Category 2B) GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS Signal word: Warning Hazard statement(s): H316 Causes mild skin irritation. H320 Causes eye irritation. Precautionary statement(s): P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## POTENTIAL HEALTH EFFECTS:

EYES: May cause eye irritation.

SKIN: May be harmful if absorbed through skin. May cause skin irritation.

**INGESTION:** May be harmful if swallowed.

INHALATION: May be harmful if inhaled. May cause respiratory tract irritation.

## SECTION 2 NOTES:

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS
---

INGREDIENTS: Magnesium nitrate, De-ionized water

MAGNESIUM NITRATE:	
CAS NO.	<u>% WT</u>
13446-18-9	13.5-16

<u>% VOL</u>

SECTION 3 NOTES:



# SECTION 4: FIRST AID MEASURES

EYES: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

SKIN: Wash off with soap and plenty of water. Consult a physician.

INGESTION: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

INHALATION: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### **SECTION 4 NOTES:**

## SECTION 5: FIRE-FIGHTING MEASURES

#### FLASH POINT:

F: No data available

C: No data available

#### **AUTOIGNITION TEMPERATURE:**

F: No data available

C: No data available

#### NFPA HAZARD CLASSIFICATION HEALTH: 0 FLAMMABILITY: 0

HMIS HAZARD CLASSIFICATION HEALTH: 0 FLAMMABILITY: 0

EXTINGUISHING MEDIA: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition products formed under fire conditions. - nitrogen oxides (NOx), Magnesium oxide

## SECTION 5 NOTES:

# SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS: Do not let product enter drains.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## **SECTION 6 NOTES:**

### SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Avoid contact with skin and eyes. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. Keep container tightly closed in a dry and well-ventilated place.

## SECTION 7 NOTES:

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**RESPIRATORY PROTECTION:** For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).



File version: 1

SDS Date: 01 Dec 2016

REACTIVITY: 0

REACTIVITY: 3

2 Rigaku

Magnesium nitrate, 1M

File version: 1

SDS Date: 01 Dec 2016

**EYE PROTECTION:** Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**SKIN PROTECTION:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

WORK HYGIENIC PRACTICES: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### SECTION 8 NOTES:

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: clear, colorless

PHYSICAL STATE: clear liquid

pH AS SUPPLIED: No data available pH (Other): No data available

# **BOILING POINT:**

- F: No data available
- C: No data available

### FREEZING POINT:

- F: No data available
- C: No data available

### VAPOR PRESSURE (mmHg): No data available

- \_ .. .
  - F: No data available C: No data available
- VAPOR DENSITY (AIR = 1): No data available

### SPECIFIC GRAVITY (H2O = 1): No data available

@

0

- F: No data available
- C: No data available

# EVAPORATION RATE: No data available

SOLUBILITY IN WATER: No data available

MOLECULAR WEIGHT: No data available

VISCOSITY: No data available

- F: No data available
- C: No data available

**SECTION 9 NOTES:** 

@

### SECTION 10: STABILITY AND REACTIVITY

**STABILITY:** Stable under recommended storage conditions.

CONDITIONS TO AVOID (STABILITY): No data available.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong reducing agents, strong acids, organic materials, powdered metals, dimethylformamide



Magnesium nitrate, 1M

File version: 1

SDS Date: 01 Dec 2016

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Hazardous decomposition products formed under fire conditions. - nitrogen oxides (NOx), Magnesium oxide. Other decomposition products - no data available.

# SECTION 10 NOTES:

# SECTION 11: TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY:

ORAL LD50: Rat - 5,440 mg/kg INHALATION LC50: No data available. DERMAL LD50: No data available.

SKIN CORROSION/IRRITATION: Rabbit - Mild skin irritation - 24 h

SERIOUS EYE DAMAGE/EYE IRRITATION: Rabbit - Mild eye irritation - 24 h

RESPIRATORY OR SKIN SENSITIZATION: No data available.

GERM CELL MUTAGENICITY: No data available.

#### CARCINOGENICITY:

IARC: 2A - Group 2A: Probably carcinogenic to humans (Magnesium nitrate hexahydrate).

- **NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**REPRODUCTIVE TOXICITY:** No data available.

SECTION 11 NOTES:

### SECTION 12: ECOLOGICAL INFORMATION

#### **TOXICITY** No data available.

PERSISTENCE AND DEGRADABILITY No data available.

**BIOACCUMULATIVE POTENTIAL** No data available.

# MOBILITY IN SOIL

No data available

#### **PBT AND vPvB ASSESSMENT** No data available

# SECTION 12 NOTES:

### SECTION 13: DISPOSAL CONSIDERATIONS

**PRODUCT:** Offer surplus and non-recyclable solutions to a licensed disposal company.

CONTAMINATED PACKAGING: Dispose of as unused product.

# SECTION 14: TRANSPORT INFORMATION

Magnesium nitrate, 1M



File version: 1

SDS Date: 01 Dec 2016

# **U.S. DEPARTMENT OF TRANSPORTATION**

Not dangerous goods

# WATER TRANSPORTATION

Not dangerous goods

#### **AIR TRANSPORTATION** Not dangerous goods

**SECTION 14 NOTES:** 

# **SECTION 15: REGULATORY INFORMATION**

OSHA HAZARDS: Target organ effect, carcinogen

SARA 302 COMPONENTS: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 COMPONENTS: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 HAZARDS: Chronic health hazard

#### MASSACHUSETTS RIGHT TO KNOW COMPONENTS: CAS-No.

Magnesium nitrate

## PENNSYLVANIA RIGHT TO KNOW COMPONENTS:

CAS-No. 13446-18-9 Magnesium nitrate 7732-18-5

13446-18-9

#### **NEW JERSEY RIGHT TO KNOW COMPONENTS:**

CAS-No. Magnesium nitrate 13446-18-9 7732-18-5 Water

CALIFORNIA PROP. 65 COMPONENTS: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

# **SECTION 15 NOTES:**

Water

### **SECTION 16: OTHER INFORMATION**

DISCLAIMER: The above information is believed to be correct but does not necessarily include all information and should be used only as a guide. The information in this document is based on our current knowledge and applies to the product with regard to appropriate safety precautions. This document does not represent any guarantee of the properties of the product. Rigaku Reagents will not be held liable for any damage resulting from handling or contact with the above product.