

Safety Data Sheet

File version: 1

Magnesium sulfate, 3M

SDS Date: 01 Dec 2016

---

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

---

**PRODUCT NAME:** 3M Magnesium sulfate  
**SYNONYMS:** Magnesium sulphate  
**PRODUCT CODES:** 1008362  
1008363  
**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 sulfate  
**CHEMICAL FORMULA:** MgSO<sub>4</sub>

**PREPARED BY:** Rigaku Reagents

**SECTION 1 NOTES:**

---

**SECTION 2: HAZARDS IDENTIFICATION**

---

**EMERGENCY OVERVIEW:**

**OSHA HAZARDS:** No known OSHA hazards

**TARGET ORGANS:** Central nervous system, gastro-intestinal system

**GHS CLASSIFICATION:** Not a dangerous substance according to GHS.

**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 sulfate, De-ionized water

**MAGNESIUM SULFATE:**

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>
7487-88-9	35-37	

**SECTION 3 NOTES:**

---

**SECTION 4: FIRST AID MEASURES**

---

**EYES:** Flush eyes with water as a precaution.

**SKIN:** Wash off with soap and plenty of water.

**INGESTION:** Never give anything by mouth to an unconscious person. Rinse mouth with water.

Safety Data Sheet

File version: 1

Magnesium sulfate, 3M

SDS Date: 01 Dec 2016

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

**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

REACTIVITY: 0

**HMIS HAZARD CLASSIFICATION**

HEALTH: 0

FLAMMABILITY: 0

REACTIVITY: 0

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

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hazardous decomposition products formed under fire conditions. - Sulfur oxides, Magnesium oxide

**SECTION 5 NOTES:** Not flammable or combustible.

---

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

---

**PERSONAL PRECAUTIONS:** Avoid breathing vapors, mist or gas.

**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 appropriate. Keep in suitable, closed containers for disposal.

**SECTION 6 NOTES:**

---

**SECTION 7: HANDLING AND STORAGE**

---

**HANDLING AND STORAGE:** Avoid contact with skin and eyes. Keep container tightly closed in a dry and well-ventilated place.

**SECTION 7 NOTES:**

---

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

---

**RESPIRATORY PROTECTION:** Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**EYE PROTECTION:** 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. Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Safety Data Sheet

File version: 1

**Magnesium sulfate, 3M**

SDS Date: 01 Dec 2016

**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):** 5.0-8.0**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 (H<sub>2</sub>O = 1):** No data available

@

**F:** No data available**C:** No data available**EVAPORATION RATE:** No data available**SOLUBILITY IN WATER:** completely soluble**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 oxidizing agents**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Hazardous decomposition products formed under fire conditions. - Sulfur oxides, Magnesium oxide. Other decomposition products - no data available.**SECTION 10 NOTES:**

---

**SECTION 11: TOXICOLOGICAL INFORMATION**

---

**ACUTE TOXICITY:****ORAL LD<sub>50</sub>:** No data available.

## Safety Data Sheet

File version: 1

## Magnesium sulfate, 3M

SDS Date: 01 Dec 2016

**INHALATION LC50:** No data available.  
**DERMAL LD50:** No data available.

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

**SERIOUS EYE DAMAGE/EYE IRRITATION:** No data available.

**RESPIRATORY OR SKIN SENSITIZATION:** No data available.

**GERM CELL MUTAGENICITY:** No data available.

**CARCINOGENICITY:**

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**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**

---

**U.S. DEPARTMENT OF TRANSPORTATION**

Not dangerous goods

**WATER TRANSPORTATION**

Not dangerous goods

**AIR TRANSPORTATION**

Not dangerous goods

**SECTION 14 NOTES:**

Safety Data Sheet

File version: 1

Magnesium sulfate, 3M

SDS Date: 01 Dec 2016

---

**SECTION 15: REGULATORY INFORMATION**

---

**OSHA HAZARDS:** No known OSHA hazards**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:** No SARA Hazards**MASSACHUSETTS RIGHT TO KNOW COMPONENTS:**

No components are subject to the Massachusetts Right to Know Act.

**PENNSYLVANIA RIGHT TO KNOW COMPONENTS:**

	<u>CAS-No.</u>
Magnesium (II) sulfate	7487-88-9
Water	7732-18-5

**NEW JERSEY RIGHT TO KNOW COMPONENTS:**

	<u>CAS-No.</u>
Magnesium (II) sulfate	7487-88-9
Water	7732-18-5

**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:**

---

**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.