

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Magnesium Sulfate Injection, USP Product Name:

Manufacturer Name: Fresenius Kabi USA, LLC Three Corporate Drive Lake Zurich, Illinois 60047 Address:

General Phone Number: (847) 550-2300 (888) 386-1300 Customer Service Phone

Number:

Health Issues Information: (800) 551-7176 SDS Creation Date: January 08, 2009 June 01, 2015 SDS Revision Date:

(M)SDS Format:

SECTION 2: HAZARD(S) IDENTIFICATION

GHS Pictograms:

DANGER. Signal Word:

GHS Class:

Reproductive toxicity. Category 1A.

Specific Target Organ Toxicity - STOT, Single Exposure SE. Category 3 (CNS).

Reproductive toxicity. Effects on or via lactation.

Hazard Statements: May damage fertility or the unborn child.

May cause respiratory irritation. May cause harm to breast-fed children.

Precautionary Statements: Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray.

Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact during pregnancy and while nursing. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

Emergency Overview: This product is intended for therapeutic use only when prescribed by a physician. Potential adverse reactions from prescribed doses and overdoses are described in the package insert.

Route of Exposure: Inhalation Ingestion Eye contact Skin Absorption. Injection.

Potential Health Effects:

Eye: Contact with eyes may cause irritation.

May cause skin irritation.

Inhalation: May cause irritation of respiratory tract.

Ingestion: May cause irritation.

Signs/Symptoms:

Adverse reactions from prescribed doses include: magnesium toxicity (flushing, sweating, hypotension, depressed reflexes, flaccid paralysis, hypothermia, circulatory collapse, cardiac and CNS depression proceeding to respiratory paralysis) and hypocalcemia with signs of tetany. Magnesium intoxication is manifested by a sharp drop in blood pressure and respiratory paralysis. Occupational exposure has not

been fully investigated.

Aggravation of Pre-Existing Conditions:

By Accidental Exposure: Individuals with heart block or myocardial damage.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent	EC Num.
Magnesium Sulfate Heptahydrate	10034-99-8	500 mg/mL	
Water for Injection	7732-18-5	Quantity Sufficient	

SECTION 4: FIRST AID MEASURES

Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of Eye Contact:

the eyes by separating the eyelids with fingers. Get immediate medical attention.

Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists. Skin Contact:

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

If conscious, flush mouth out with water immediately. Call a physician or poison control center immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give Ingestion:

anything by mouth to an unconscious person.

Other First Aid: For Adverse Event Information, please call (800) 551-7176.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: Not established. Not established Flash Point Method: Auto Ignition Temperature: Not established. Lower Flammable/Explosive Limit: Not established Upper Flammable/Explosive Limit: Not established.

Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, Fire Fighting Instructions:

contain fire run-off water.

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, dry chemical, or water fog or spray when fighting fires

Use extinguishing measures that are appropriate to local circumstances and the surrounding

As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear. Protective Equipment:

Hazardous Combustion

Byproducts:

Thermal decomposition products may include smoke and toxic fumes. Oxides of carbon, oxides of nitrogen and other organic substances may be formed. Other undetermined low molecular weight hydrocarbon compounds may be released in small quantities depending upon specific conditions of

combustion.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personnel Precautions: Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

Avoid personal contact and breathing vapors or mists. Use proper personal protective equipment as

listed in section 8.

Environmental Precautions: Avoid runoff into storm sewers, ditches, and waterways.

Methods for containment: Contain spills with an inert absorbent material such as soil, sand or oil dry.

Absorb spill with inert material (e,g., dry sand or earth), then place in a chemical waste container. After removal, flush spill area with soap and water to remove trace residue. Methods for cleanup:

SECTION 7: HANDLING and STORAGE

Handling: When handling pharmaceutical products, avoid all contact and inhalation of vapor, mists and/or fumes. Use with adequate ventilation. Use only in accordance with directions.

Store at controlled room temperature 15 to 30°C (59 to 86°F)

Work Practices: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety

shower

Hygiene Practices: Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: General ventilation is sufficient if this product is being used in a controlled medical setting (clinic, hospital, medical office) for its sole intended parenteral (injection) purpose. Otherwise, use appropriate

engineering control such as process enclosures, local exhaust ventilation, or other engineering controls including use of a biosafety cabinet / fume hood to control airborne levels below recommended

exposure limits.

Eve/Face Protection: Chemical splash goggles. Wear a face shield also when splash hazard exist.

Skin Protection Description: Protective laboratory coat, apron, or disposable garment recommended.

Wear appropriate protective gloves. Consult glove manufacturer's data for permeability data. Hand Protection Description:

Nitrile rubber or natural rubber gloves are recommended.

Respiratory Protection:

No personal respiratory protective equipment is normally required when this product is being used/administered by a licensed healthcare practitioner (i.e. an end-user such as a clinician / doctor / nurse) for its sole intended parenteral (injection) purpose in a controlled medical setting. The need for respiratory protection will vary according to the airborne concentrations and environmental conditions. A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible

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under certain circumstances. Consult the NIOSH web site

(http://www.cdc.gov/niosh/npptl/topics/respirators/) for a list of respirator types and approved suppliers.

Other Protective: Consult with local procedures for selection, training, inspection and maintenance of the personal

protective equipment.

EXPOSURE GUIDELINES

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Physical State: Liquid solution.

Color: Colorless.

Odor: Odorless.

Boiling Point: Not established.

Melting Point: 1124°C (magnesium sulfate heptahydrate)

Solubility: Soluble. in water.

Vapor Density: Not established.

Vapor Pressure: Not established.

Percent Volatile: Not established.

pH: 5.5 - 7.0

Molecular Formula: Mixture
Molecular Weight: 246.47

Flash Point: Not established.

Flash Point Method: Not established.

Auto Ignition Temperature: Not established.

SECTION 10: STABILITY and REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Hazardous Polymerization: Not reported.

Conditions to Avoid: No conditions contributing to instability are known to exist for normal handling of this product.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Eye, skin, and respiratory irritation may occur.

Magnesium Sulfate Heptahydrate:

Acute Toxicity: Acute Toxicity:

Acute Toxicity: LD50 SC Rat: 1200 mg/kg

Acute Effects: Eye, skin, and respiratory irritation may occur.

Chronic Effects: None known.

 $\underline{\textbf{Magnesium Sulfate Heptahydrate}}:$

RTECS Number: OM4508000

Other Toxicological Information: LD50 Subcutaneous Rat: 1200 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No ecotoxicity data was found for the product.

Environmental Stability: No environmental information found for this product.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance with Local, State, Federal and Provincial regulations.

SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name: Not Regulated.

DOT UN Number: Not Regulated.

IATA Shipping Name: Non regulated. IATA UN Number: Non regulated.

IMDG UN NUmber: Non regulated. IMDG Shipping Name : Non regulated.

SECTION 15: REGULATORY INFORMATION

Magnesium Sulfate Heptahydrate:

Canada DSL: Listed

Water for Injection:

TSCA Inventory Status: Listed Canada DSL: Listed

SECTION 16: ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard: 1 HMIS Fire Hazard: 1 HMIS Reactivity: 1 HMIS Personal Protection:

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SDS Format:

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