

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Magnesium Sulfate in 5% Dextrose Injection, USP Product Name:

Manufacturer Name: Fresenius Kabi Norge AS Address: Svinesundsveien 80 P. O. Box 430 1753 Halden, Norway General Phone Number: +47-69-211100

+47-69-211101 General Fax Number: Distributor Name: Fresenius Kabi USA, LLC

Address: Three Corporate Drive Lake Zurich, Illinois 60047

General Phone Number: (847) 550-2300 (888) 386-1300 Customer Service Phone Number: Health Issues Information: (800) 551-7176

SDS Creation Date: May 24, 2016 SDS Revision Date: May 24, 2016

SECTION 2: HAZARD(S) IDENTIFICATION

GHS Pictograms:



Signal Word: WARNING.

GHS Class:

Reproductive toxicity. Category 1B.
Specific Target Organ Toxicity - STOT, Single Exposure SE. Category 3.
Reproductive toxicity. Effects on or via lactation.

Hazard Statements: May damage fertility or the unborn child.

May cause drowsiness or dizziness. 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.

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.

Inhalation. Ingestion. Eye contact. Skin Absorption. Injection.

Potential Health Effects:

Route of Exposure:

Eye: Contact with eyes may cause irritation.

Skin: 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

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 1 %

50-99-7 5 % Dextrose

Water for Injection 7732-18-5 **Ouantity** sufficient

Sulfuric acid 7664-93-9 As needed to adjust pH

Sodium hydroxide 1310-73-2 As needed to adjust pH

SECTION 4: FIRST AID MEASURES

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

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.

Flash Point Method: Not established.

Lower Flammable/Explosive Limit: Not established.

Not established Upper Flammable/Explosive Limit:

Fire Fighting Instructions: 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, contain fire run-off water.

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

involving this material.

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

environment.

Not established.

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

and full protective gear.

Hazardous Combustion

Auto Ignition Temperature:

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

Personal 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

Storage: Store at controlled room temperature 20 to 25°C (68 to 77°F).

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

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.

Eye/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.

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

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 under certain circumstances. Consult the NIOSH web site

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

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

EXPOSURE GUIDELINES

Other Protective:

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. Not established. Vapor Pressure: Percent Volatile: Not established. 3.5 - 6.5 pH:

Molecular Formula: Mixture 246.47 Molecular Weight:

Not established. Flash Point: 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: LD50 SC Rat: 1200 mg/kg

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

Chronic Effects: None known.

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

SECTION 16: ADDITIONAL INFORMATION

HMIS Ratings:

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

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