



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Hi-Yield® Magnesium Sulfate

SECTION 1: Identification

Product identifier

Product name Hi-Yield® Magnesium Sulfate

Supplier's details

Name Voluntary Purchasing Groups, Inc.
Address 230 FM 87
Bonham, TX 75418
USA

Telephone 855-270-4776

Emergency phone number(s)

In the event of a medical or chemical emergency contact ChemTel, Inc.
North American 1-800-255-3924 or worldwide Intl. + 01-813-248-0585

SECTION 2: Hazard identification

Classification of the substance or mixture

GHS label elements, including precautionary statements

Hazard statement(s)

H320 Causes eye irritation
H303+H333 May be harmful if swallowed or if inhaled

Other hazards which do not result in classification

SECTION 3: Composition/information on ingredients

Substances

Hazardous components

Component
Magnesium sulfate Heptahydrate (CAS no.: 10034-99-8)

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	Call a poison control center or doctor for treatment advice. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If breathing difficulties occur, seek medical attention immediately.
If inhaled	Move person to fresh air. If person is not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a poison control center or doctor for treatment advice.
In case of skin contact	Wash skin with soap and plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
In case of eye contact	Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.
If swallowed	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a poison control center or doctor for treatment advice.

Personal protective equipment for first-aid responders

Respiratory Protection: NIOSH/MSHA approved for protection against toxic dusts containing quartz.
Ventilation: General or local exhaust to maintain employee exposure below the TLV/PEL.
Protective Gloves: PVC or Neoprene.
Eye Protection: Safety glasses or goggles (ANSI Z87.1 1979)
Other Protective Clothing or Equipment: Apron, boots, long sleeved shirt and full-length pants may be worn when necessary to prevent skin contact.
Eye wash and shower facilities should be available.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Noncombustible.
Compatible with all extinguishing media.

Specific hazards arising from the chemical

At very high temperatures, magnesium oxide, sulfur dioxide, and sulfur trioxide may be generated.

Special protective actions for fire-fighters

The following protective equipment for fire fighters is recommended when this material is present in the area of a fire: chemical goggles, body-covering protective clothing, self-contained breathing apparatus.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Respiratory Protection: NIOSH/MSHA approved for protection against toxic dusts containing quartz.

Ventilation: General or local exhaust to maintain employee exposure below the TLV/PEL.

Protective Gloves: PVC or Neoprene.

Eye Protection: Safety glasses or goggles (ANSI Z87.1 1979)

Other Protective Clothing or Equipment: Apron, boots, long sleeved shirt and full-length pants may be worn when necessary to prevent skin contact

Environmental precautions

Sinks and mixes with water. No adverse effects known. Not a listed toxic chemical under SARA Title III, §313 40 CFR Part 372. Not a CERCLA

Hazardous Substance under 40 CFR Part 302.

Methods and materials for containment and cleaning up

Small Spill Clean Up: Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust.

Use appropriate Personal Protective Equipment (PPE).

Large Spill Clean Up: Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through

spilled material and place in suitable container. Avoid generating dust. Use appropriate Personal Protective Equipment (PPE)

SECTION 7: Handling and storage

Precautions for safe handling

Store in a cool, dry place, ventilated and out of direct sunlight.

Avoid breakage of bagged material or spills of bulk material. Use dustless systems for handling, storage, and cleanup. Practice good housekeeping. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Wash or vacuum clothing, which has become dusty. Do not eat, drink or smoke while handling.

Avoid breathing dust.

Conditions for safe storage, including any incompatibilities

Keep containers closed. Protect from extremes of temperature and humidity during storage.

Recommend storage conditions 68-110°F and 54-87% relative humidity.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

Local or general exhaust to maintain exposure below TLV/PEL.

Safety shower and eyewash fountain should be within direct access.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Splash-proof or dust-resistant safety goggles to prevent eye contact with this substance. Contact lenses should not be worn.

Skin protection

PVC or Neoprene gloves

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Body protection

Apron, boots, long sleeved shirt and full-length pants may be worn when necessary to prevent skin contact. Eye wash and shower facilities should be available.

Respiratory protection

NIOSH/MSHA approved respiratory devices

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form	White or transparent crystalline powder
Odor	Odorless
Odor threshold	
pH	Approximately 6-7
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	
Evaporation rate	No data available.
Flammability (solid, gas)	
Upper/lower flammability limits	
Upper/lower explosive limits	
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	
Solubility(ies)	71g/100ml at 20°C, 91g/100ml at 40°C
Partition coefficient: n-octanol/water	
Auto-ignition temperature	
Decomposition temperature	
Viscosity	
Explosive properties	Noncombustible.
Oxidizing properties	

Other safety information

Specific Gravity: 1.76 g/cm³, Bulk Density approximately 1.05 g/cm³.

SECTION 10: Stability and reactivity

Reactivity

At very high temperatures, magnesium oxide, sulfur dioxide, and sulfur trioxide may be generated.

Possibility of hazardous reactions

At very high temperatures, magnesium oxide, sulfur dioxide, and sulfur trioxide may be generated.

Conditions to avoid

Spilled material can be slippery.

Incompatible materials

Metal hydrides and other water reactive materials

Hazardous decomposition products

At very high temperatures, magnesium oxide, sulfur dioxide, and sulfur trioxide may be generated.

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SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Serious eye damage/irritation

When tested for primary irritation potential, this material caused mild eye irritation. RTECS reports Oral TDLo=428 mg/kg in men 351 mg/kg in women.

SECTION 12: Ecological information

Toxicity

This material is not persistent in aquatic systems and does not contribute to BOD. It does not bioconcentrate up the food chain.

Other adverse effects

Sinks and mixes with water.

SECTION 13: Disposal considerations

Disposal of the product

If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

Other disposal recommendations

Disposed material is not a RCRA hazardous waste.

SECTION 14: Transport information

DOT (US)

Not regulated

IMDG

Not regulated

IATA

Not regulated

SECTION 15: Regulatory information

Chemical Safety Assessment

CERCLA: No CERCLA Reportable Quantity has been established for this material.

SARA TITLE III: Not an Extremely Hazardous Substance under §302. Not a Toxic Chemical under §313. Hazard Categories under §311/312: Acute

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TSCA: All ingredients of this material are listed on the TSCA inventory.

FDA: Magnesium sulfate is an FDA GRAS substance pursuant to 21 CFR 184.1443. Epsom salt, Agricultural grade is not a suitable grade of magnesium sulfate for pharmaceutical uses.

SECTION 16: Other information

Voluntary Purchasing Groups, Inc. urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.