



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet

Hi-Yield® Magnesium Sulfate

SECTION 1: Identification

GHS Product identifier

Product name	Hi-Yield® Magnesium Sulfate
Product number	34634
Brand	Hi-Yield

Recommended use of the chemical and restrictions on use
Fertilizer

Supplier's details

Name	Voluntary Purchasing Groups, Inc.
Address	230 FM 87 Bonham TX 75418 USA
Telephone	855-270-4776

Emergency phone number

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 classification in accordance with: OSHA (29 CFR 1910.1200)

- Specific target organ toxicity (repeated exposure), Cat. 2

GHS label elements, including precautionary statements

Pictograms



Signal word

Warning

Hazard statement(s)

H373	May cause damage to organs through prolonged or repeated exposure
H320	Causes eye irritation
H303+H333	May be harmful if swallowed or if inhaled

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Precautionary statement(s)

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P314	Get medical advice/attention if you feel unwell.
P501	Dispose of contents/container to in accordance with Federal, State and local regulations.
P102	Keep out of reach of children.
P103	Read label before use.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
Magnesium sulfate heptahydrate (CAS no.: 10034-99-8)	Not specified
CLASSIFICATIONS: No data available. HAZARDS: No data available.	

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.

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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.

Most important symptoms/effects, acute and delayed

No information available.

Indication of immediate medical attention and special treatment needed, if necessary

Show this Safety Data Sheet to the doctor in attendance.

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

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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.

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

Not required under normal circumstances. If exposure limits are exceeded or if irritation or other symptoms are experienced use a NIOSH/MSHA approved respirator.

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)

White or transparent crystalline powder

Odor

Odorless

Odor threshold

No information available.

pH

6-7

Melting point/freezing point

1292 °F

Initial boiling point and boiling range

No information available.

Flash point

No information available.

Evaporation rate

No information available.

Flammability (solid, gas)

No information available.

Upper/lower flammability or explosive limits

No information available.

Vapor pressure

No information available.

Vapor density

No information available.

Relative density

1.05 g/cm³

Solubility(ies)

71g/100ml at 20°C, 91g/100ml at 40°C

Partition coefficient: n-octanol/water

No information available.

Auto-ignition temperature

No information available.

Decomposition temperature

No information available.

Viscosity

No information available.

Additional properties

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Physical state
Color

Solid
White or transparent

SECTION 10: Stability and reactivity

Reactivity

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

Chemical stability

Stable under ordinary conditions of use and storage.

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.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

May cause skin irritation

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.

Respiratory or skin sensitization

May cause irritation of respiratory tract

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - single exposure

No data available.

Specific target organ toxicity (STOT) - repeated exposure

No data available.

Aspiration hazard

No data available.

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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.

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

No data available.

Other adverse effects

Sinks and mixes with water.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

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 dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

SARA 313 Components

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following compounds which are subject to the reporting requirements of the Act and 40 CFR, Part 372: Manganese compounds >95%

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Comprehensive Environmental Response Compensation and Liability Act (CERCLA)(401 CFR 302)

Product name: Hi-Yield® Magnesium Sulfate

Toxic Substances Control Act (TSCA) Inventory

Product name: Hi-Yield® Magnesium Sulfate

SECTION 16: Other information

Further information/disclaimer

Voluntary Purchasing Groups, Inc. believes the information presented herein is accurate and correct as of the document date. The presented information is based upon available data from reliable sources. Voluntary Purchasing Groups, Inc. makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.