



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Hi-Yield Manganese Sulfate

SECTION 1: Identification

Product identifier

Product name Hi-Yield Manganese Sulfate
Product number 32335
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(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 classification in accordance with: OSHA (29 CFR 1910.1200)

- Specific target organ toxicity (repeated exposure) (C.4.12), Cat. 2

GHS label elements, including precautionary statements

Pictogram



Signal word

Warning

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Hazard statement(s)

H373

May cause damage to organs through prolonged or repeated exposure

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.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
MANGANESE (II) SULFATE MONOHYDRATE (CAS no.: 10034-96-5)	> 95 % (weight)
CLASSIFICATIONS: No data available. HAZARDS: No data available.	

SECTION 4: First-aid measures

Description of necessary first-aid measures

If inhaled

Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

In case of skin contact

Wash off immediately with plenty of water. Remove all contaminated clothes and shoes. If skin irritation persists, call a doctor/physician

In case of eye contact

Immediately rinse with plenty of water. Remove contact lenses, if present and easy to do so. Keep eye wide open while rinsing. Continue rinsing for 15 minutes. Call a doctor/physician if irritation persists

If swallowed

Do not induce vomiting without medical advice. Rinse mouth with water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Use any means suitable for extinguishing surrounding fire.

Specific hazards arising from the chemical

Thermal decomposition can lead to the release of irritation or toxic gases and vapors; including and not limited to: Sulfur oxides

Special protective actions for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: Accidental release measures

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Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Use personal protection recommended in Section 8. Ensure adequate ventilation.

Environmental precautions

Prevent entry into waterways or sewers

Methods and materials for containment and cleaning up

Sweep or vacuum up and place in an appropriate closed container. Keep unauthorized personnel away. Avoid generating dust.

SECTION 7: Handling and storage

Precautions for safe handling

Ensure adequate ventilation. Avoid dust formation. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment recommended in section 8. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Store in a cool/low-temperature, well-ventilated, dry place. Keep containers closed and labeled when not in use.

SECTION 8: Exposure controls/personal protection

Control parameters

1. MANGANESE (II) SULFATE MONOHYDRATE (CAS: 10034-96-5)

TWA: 0.2 mg/m³ (ACGIH)

TWA: 1 mg/m³ (NIOSH)

STEL: 3 mg/m³ (NIOSH)

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Consider the potential hazards of this material, applicable exposure limits, job activities and other substances in the workplace when designing controls and selecting personal protective equipment.

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

Eye/face protection

Safety glasses are recommended in professional settings

Skin protection

Choose the appropriate protective clothing and gloves based on the tasks being performed to avoid exposure to skin. Wear protective gloves. Wear long sleeved protective clothing.

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

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Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	White Granules
Odor	Odorless
Odor threshold	
pH	
Melting point/freezing point	1292 °F
Initial boiling point and boiling range	
Flash point	
Evaporation rate	
Flammability (solid, gas)	
Upper/lower flammability limits	
Vapor pressure	
Vapor density	
Relative density	
Solubility(ies)	Soluble in water
Partition coefficient: n-octanol/water	
Auto-ignition temperature	
Decomposition temperature	
Viscosity	
Explosive properties	
Oxidizing properties	

SECTION 10: Stability and reactivity

Reactivity

None known under normal conditions.

Chemical stability

Stable under ordinary conditions of use and storage.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Avoid dust formation.

Incompatible materials

Strong bases.

Hazardous decomposition products

Hazardous combustion can lead to the release of irritating gases and vapors.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

MANGANESE (II) SULFATE MONOHYDRATE

LD50 Oral - >2,000 mg/kg

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Skin corrosion/irritation

May cause skin irritation

Serious eye damage/irritation

May cause eye irritation

Respiratory or skin sensitization

May cause irritation of respiratory tract

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure

SECTION 12: Ecological information

Toxicity

Should not be released to environment. Toxic to aquatic life.

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

No data available.

SECTION 13: Disposal considerations

Disposal of the product

Processing, use, or contamination of this product may occur during product use. Accordingly, it is the responsibility of the user to determine the proper disposal methodologies. Consult the appropriate state, regional or local regulations to ensure complete and accurate classification. Dispose of contaminated packaging in accordance with local regulations.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

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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%

NFPA Rating



SECTION 16: Other information