



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Hi-Yield Iron Sulfate

SECTION 1: Identification

GHS Product identifier

Product name	Hi-Yield Iron Sulfate
Product number	34340
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

General hazard statement

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.

Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200, 2012)

- Acute toxicity, oral, Cat. 4
- Skin corrosion/irritation, Cat. 2
- Eye damage/irritation, Cat. 2A

GHS label elements, including precautionary statements

Pictograms



Signal word

Warning

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Hazard statement(s)

H302 Harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation

Precautionary statement(s)

P264 Wash ... thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301+P312 IF SWALLOWED: Call a POISON CENTER /doctor/...if you feel unwell,
P330 Rinse mouth.
P501 Dispose of contents/container to ...
P280 Wear protective gloves/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water/...
P321 Specific treatment (see ... on this label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P102 Keep out of reach of children.
P103 Read label before use.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
Iron(II) sulfate heptahydrate (CAS no.: 7782-63-0; EC no.: 231-753-5; Index no.: 026-003-01-4)	Not specified
CLASSIFICATIONS: Acute toxicity, oral, Cat. 4; Skin corrosion/irritation, Cat. 2; Eye damage/irritation, Cat. 2A. HAZARDS: H302 - Harmful if swallowed; H315 - Causes skin irritation; H319 - Causes serious eye irritation. [SCLs/M-factors/ATEs]: Skin Irrit. 2; H315: C ≥ 25 %	

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.
Move out of dangerous area.

If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact Wash off with soap and plenty of water. Consult a physician.

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Personal protective equipment for first-aid responders Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

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Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see Section 2.2) and/or in Section 11.

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

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

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

Specific hazards arising from the chemical

Sulphur oxides, Iron oxides.

Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

The product itself does not burn.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see Section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections

Section 8.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see Section 2.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Air sensitive. Store under inert gas. Hygroscopic.

Specific end use(s)

Apart from the uses mentioned in Section 1 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

Control parameters

1. Iron(II) sulfate heptahydrate (CAS: 7782-63-0 EC: 231-753-5)

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TWA: 1 mg/m³ (ACGIH)

TWA (Inhalation): 1 mg/m³ (US/OSHA)

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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

Eye/face protection

Safety glasses with side-shields.

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use a particle respirator. For higher level protection use type, wear NIOSH approved airpurifying respirator with cartridges/canisters.

Environmental exposure controls

Do not let product enter drains.

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)	Solid
Odor	No data available.
Odor threshold	No data available.
pH	3-4
Melting point/freezing point	64° C (147° F)
Initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability or explosive limits	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	1,040 kg/m ³
Solubility(ies)	33 g/100 g H ₂ O @ 20C
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Additional properties	
Physical state	Solid
Color	

SECTION 10: Stability and reactivity

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Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerization does not occur.

Conditions to avoid

Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Ingestion Harmful if swallowed.

Inhalation No adverse effects due to inhalation are expected.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1 are mutagenic or genotoxic.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity (STOT) - single exposure

Not classified.

Specific target organ toxicity (STOT) - repeated exposure

Not classified.

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Aspiration hazard

Not classified.

SECTION 12: Ecological information

Toxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Packaging disposal

Dispose of as unused product.

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

Massachusetts Toxic Use Reduction Act (TURA) list

Chemical name: Ferrous sulfate (heptahydrate)

CAS number: 7782-63-0

TRI listing: unlisted; CERCLA listing: X-reportable; TURA-only listing: no; LHS/HHS/PBT status: LHS-Lower Hazard Status; de minimis concentration threshold: 1 percent. Qualifiers/definitions: Lower Hazard Substance. No chemical fee is charged for this chemical. Changes: CERCLA Chemical added RY1993. Lower Hazard Substance RY2010.

Pennsylvania Right To Know Components

Chemical name: Ferrous sulfate

CAS number: 7782-63-0

Listing note: E-environmental hazard.

Massachusetts Right To Know Components (105 CMR 670)

Chemical name: Ferrous sulfate (heptahydrate)

CAS number: 7782-63-0

Asterisk: no; Refs: F8

New Jersey Right To Know Components

Product name: Hi-Yield Iron Sulfate

Toxic Substances Control Act (TSCA) Inventory

Product name: Hi-Yield Iron Sulfate

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SARA 313 Components

Product name: Hi-Yield Iron Sulfate

SARA 311/312 Hazards

Product name: Hi-Yield Iron Sulfate

CWA (Clean Water Act)

Product name: Hi-Yield Iron Sulfate

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

Product name: Hi-Yield Iron Sulfate

California Proposition 65 List

Product name: Hi-Yield Iron Sulfate

HMIS Rating

Hi-Yield Iron Sulfate	
HEALTH	2
FLAMMABILITY	
PHYSICAL HAZARD	
PERSONAL PROTECTION	

NFPA Rating



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.