



FULCRUM ENTERPRISES INC

Safety Data Sheet 2.5% Magnesium EDTA

SECTION 1: Identification

1.1 Product identifier

Product name 2.5% Magnesium EDTA

1.2 Recommended use of the chemical and restrictions on use

liquid fertilizer

1.3 Supplier's details

Name Fulcrum Enterprises Inc
Address 5015 NW Canal Street
Riverside MO 64150

Telephone 731-784-0605

1.4 Emergency phone number(s)

Chemtrec 800-262-8200 Customer Number CCN840117

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

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

2.2 GHS label elements, including precautionary statements

Pictogram



Precautionary statement(s)

P264 Wash ... thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P330 Rinse mouth.

SECTION 3: Composition/information on ingredients

3.1 Mixtures

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Hazardous components

1. Potassium hydroxide

Concentration	Not specified
EC no.	215-181-3
CAS no.	1310-58-3
Index no.	019-002-00-8

- Skin corrosion/irritation, Cat. 1A
- Acute toxicity, oral, Cat. 4

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage

2. Magnesium oxide

Concentration	Not specified
EC no.	215-171-9
CAS no.	1309-48-4

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled	Remove to fresh air. If breathing becomes difficult, contact a medical physician. Give artificial respiration if victim is not breathing and obtain immediate medical attention.
In case of skin contact	Wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention if skin becomes irritated.
In case of eye contact	Flush immediately with water for at least 15 minutes, lifting the upper and lower eyelids occasionally. Call a physician if eye irritation persists.
If swallowed	Call physician or Poison Control Center immediately for most current information. Dilute with large amounts of water. Do not induce vomiting unless directed to do so by a medical professional. Never induce vomiting or give diluents (milk or water) to someone

4.2 Most important symptoms/effects, acute and delayed

Eyes: May cause inflammation, redness, and possible damage with prolonged exposure.
Skin: Prolonged or repeated exposure may cause skin ulcerations and /or burns.
Inhalation: It may cause headaches, nausea, or weakness in case of prolonged exposure. Oxygen can be administered if breathing becomes difficult.
Ingestion: May result in nausea, vomiting, diarrhea, digestive disorders, or chemical burns.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Water spray, Foam, Carbon Dioxide, Dry-Chemical.

5.2 Specific hazards arising from the chemical

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Magnesium oxide: Magnesium oxide

5.3 Special protective actions for fire-fighters

Wear positive pressure, self-contained breathing apparatus (SCBA) and goggles. Avoid exposure to smoke or fumes. Contain any liquid runoff.

SECTION 6: Accidental release measures

6.1 Methods and materials for containment and cleaning up

For small or incidental spills, the minimum personal protective equipment should be rubber gloves, rubber apron, and chemical goggles. Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. Gas masks with ammonia canister or SCBA gear may be required. For large spills, contain by diking with soil or other non-combustible absorbent material. Dilution with water will reduce the release of ammonia vapors. Keep material out of sewers, storm drains, and surface waters. Comply with all applicable government regulations on spill reporting, handling, and waste disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep away from incompatible materials.. Do not breathe mists. Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Wash with soap and water after handling.

7.2 Conditions for safe storage, including any incompatibilities

Store out of direct sunlight (above 40°F) in a dry, well-ventilated area. This product should be stored in tanks constructed of stainless steel, fiberglass, polypropylene, or polyethylene. Valves should be inspected on a regular basis and replaced as needed to prevent leakage. Transfer equipment should be constructed of stainless steel or chemical-resistant plastic. Do not store in aluminum vessels.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Potassium hydroxide (CAS: 1310-58-3 EC: 215-181-3)

PEL-C (Inhalation): 2 mg/m³; USA (ACGIH)

Upper Respiratory Tract irritation, Eye irritation, Skin irritation

PEL-C (Inhalation): 2 mg/m³; USA (ACGIH)

Upper Respiratory Tract irritation, Eye irritation, Skin irritation

PEL-C (Inhalation): 2 mg/m³; USA (NIOSH)

PEL-C (Inhalation): 2 mg/m³; USA (Cal/OSHA)

2. Magnesium oxide fume - Total Particulate (CAS: 1309-48-4)

PEL (Inhalation): 15 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 10 mg/m³ (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

TLV® (Inhalation): 10 mg/m³ ; USA (ACGIH)

Metal fume fever

8.2 Appropriate engineering controls

Use with adequate ventilation to keep airborne levels below recommended exposure limits.

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

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Eye/face protection

Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, contact lenses should not be worn when working with chemicals because they contribute to the severity of an eye injury.

Skin protection

Rubber gloves with gauntlets.

Body protection

Use body protection appropriate for task. Chemical-resistant coveralls and rubber aprons are generally acceptable.

Respiratory protection

If work conditions generate vapors or mist, wear a NIOSH approved respirator appropriate for those emission levels. Appropriate respirator may be a full facepiece respirator, an SCBA in the pressure demand mode, or a supplied-air respirator.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	clear yellow/orange liquid
Odor	None
Odor threshold	
pH	7.5 to 8.1
Melting point/freezing point	32 F
Initial boiling point and boiling range	212 F
Flash point	NA
Evaporation rate	NA
Flammability (solid, gas)	NA
Upper/lower flammability limits	NA
Vapor pressure	NA
Vapor density	NA
Relative density	10.4 lbs/gal
Solubility(ies)	NA
Partition coefficient: n-octanol/water	NA
Auto-ignition temperature	NA
Decomposition temperature	NA
Viscosity	NA
Explosive properties	NA
Oxidizing properties	NA

SECTION 10: Stability and reactivity

10.1 Reactivity

Stabel under normal conditions and pressure.

10.2 Chemical stability

Stable under normal conditions and pressure

10.3 Conditions to avoid

Strong Acids

10.4 Incompatible materials

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Potassium hydroxide: Nitro compounds, Organic materials, Magnesium, Copper, Water, reacts violently with:, Metals, Light metals, Contact with aluminum, tin and zinc liberates hydrogen gas. Contact with nitromethane and other similar nitro compounds causes formation of shock-sensitive salts., vigorous reaction with:, Alkali metals, Halogens, Azides, Anhydrides

Magnesium oxide: Strong oxidizing agents, May react violently with:, phosphorous pentachloride, Strong acids

10.5 Hazardous decomposition products

Potassium hydroxide: Other decomposition products - No data available
Hazardous decomposition products formed under fire conditions. - Potassium oxides
In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Skin corrosion/irritation

Moderate irritant, especially with prolonged exposure. May cause skin ulceration and/or burns.

Serious eye damage/irritation

Moderate irritant. May cause redness, burning, inflammation, and/or damage.

Respiratory or skin sensitization

Moderate irritant, especially with prolonged exposure. May cause skin ulceration and/or burns.

Additional information

Repeated overexposure may cause dermatitis, conjunctivitis, or cataracts.

SECTION 12: Ecological information

Toxicity

May be harmful to fish, livestock, and wildlife. Dissolved mineral salts may cause irritation of the digestive tract.
Non-persistent. Non-cumulative when applied using normal agricultural practices.

SECTION 13: Disposal considerations

Disposal of the product

Do not contaminate lakes, streams, ponds, estuaries, oceans, or other waters by discharge of waste effluents or equipment rinsate. Dispose of waste effluents according to federal, state, and local regulations. Chemical additions or other alterations of this product may invalidate any disposal information in this SDS.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

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SECTION 15: Regulatory information

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

Massachusetts Right To Know Components

Potassium hydroxide

CAS-No. 1310-58-3

Chemical name: Magnesium oxide

CAS number: 1309-48-4

New Jersey Right To Know Components

Potassium hydroxide

CAS-No. 1310-58-3

Chemical name: Magnesium oxide

CAS number: 1309-48-4

Pennsylvania Right To Know Components

Potassium hydroxide

CAS-No. 1310-58-3

Chemical name: Magnesium oxide

CAS number: 1309-48-4

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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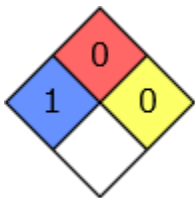
SARA 311/312 Hazards

Acute Health Hazard

No SARA Hazards

NFPA Rating

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SECTION 16: Other information

The information and recommendations herein are taken from data contained in independent, industry recognized references including NIOSH, OSHA, ANSI, and NFPA. This information is, as of date listed above, true and accurate to the best of Fulcrum Enterprises Inc knowledge. It is intended for use by persons possessing technical knowledge and at their own discretion and risk. Since actual use is beyond our control, no guarantee, express or implied, and no liability is assumed by Fulcrum Enterprises Inc in conjunction with the use of this information. Actual conditions of use and handling may require consideration of information other than, or in addition to, that which is provided herein.