

1. CHEMICAL PRODUCT INFORMATION

PRODUCT NAME	CHEMICAL NAME	PRODUCT CLASS	PRODUCT SIGNAL WORD	PRODUCT HAZARDS	24 HOUR EMERGENCY ASSISTANCE
MGET	Magnesium Ethoxide	Alkali Earth Alcoholate	Danger	Flammable	1-800-255-3924

2. HAZARDS IDENTIFICATION

NOTE: Reacts violently with water – Prolonged exposure to air and other sources of moisture will also degrade the product.

Emergency Overview

OSHA Hazards

Unstable Reactive, Irritant

GHS Classification

Self-heating substances (Category 1)

Acute toxicity, Oral (Category 5)

Eye irritation (Category 2A)

Acute aquatic toxicity (Category 3)

GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H251 Self-heating; may catch fire.

H303 May be harmful if swallowed.

H319 Causes serious eye irritation.

H402 Harmful to aquatic life.

Precautionary statement(s)

P235 + P410 Keep cool. Protect from sunlight.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS Classification

Health hazard: 2

Flammability: 0

Physical hazards: 2

NFPA Rating

Health hazard: 2

Fire: 0

Reactivity Hazard: 2

Special Hazard: ~~W~~

Potential Health Effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Skin May be harmful if absorbed through skin. Causes skin irritation.

Eyes Causes eye irritation.

Ingestion May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Magnesium ethylate, Magnesium Ethanolate

Formula : C₄H₁₀MgO₂

Molecular Weight : 114.43 g/mol

DESCRIPTION	CAS #	UN #	CONC.	ACGIH TWA	ACGIH STEL	OSHA TWA
Magnesium Ethylate	2414-98-4	3205	100%	N/A	N/A	N/A

4. FIRST AID MEASURES

EYES	Flush with water immediately and contact a physician.
SKIN	Remove contaminated clothing, wash with plenty of water. Obtain medical attention if irritation develops or persists.
INGESTION	If swallowed, get medical attention immediately. Only induce vomiting if directed by a physician. Never give anything by mouth to an unconscious person.
INHALATION	Remove to fresh air. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get medical attention as soon as possible.

5. FIREFIGHTING MEASURES

TDG FLAMMABILITY CLASSIFICATION	Combustible solid Class 4.2	MELTING POINT	270 °F - decomposes
AUTO IGNITION TEMPERATURE	N/A	EXTINGUISHING MEDIA	Carbon Dioxide, dry chemical sorbants, aqueous film forming foam
FIRE & EXPLOSIVE HAZARDS	Product may decompose to release ethanol liquid and/or ethanol vapor.	SPECIAL FIREFIGHTING PROCEDURES	This material will react violently with water; do not apply water directly to burning material.
LOWER EXPLOSIVE LIMITS	N/A	UPPER EXPLOSIVE LIMITS	N/A

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN THE EVENT OF A SPILL	Remove ignition sources (see Section 5). Provide adequate ventilation. Collect material and place in a disposal container. Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil. Spills of more than 5400 lbs. must be report to the National Response Center (800) 424-8802.
--	---

7. HANDLING, STORAGE, AND PERSONAL PROTECTION

VENTILATION	If use operations generate dust, use ventilation to keep exposure to airborne contaminants below the exposure limit.
RESPIRATORY PROTECTION	Dust mask is recommended when handling.
EYE PROTECTION	Goggles are recommended when handling.
SKIN PROTECTION	Use impermeable gloves.
STORAGE	Purge container with nitrogen before resealing. Store product in a tightly sealed container in a cool, dry place. Do not store near open flames or near heated pipes

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ACGIH total particulate – 10 mg/m³ TWA/TLV ACGIH respirable particulate – 3 mg/m³ TWA/TLV
 OSHA total particulate – 15 mg/m³ TWA/PEL OSHA respirable particulate – 5 mg/m³ TWA/PEL

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand 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.

Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Impervious clothing, Flame retardant protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance

9. PHYSICAL AND CHEMICAL PROPERTIES

VAPOR DENSITY	N/A	VAPOR PRESSURE	N/A
SOLUBILITY IN WATER	Reacts violently with water	BULK DENSITY	480 kg/m ³
APPEARANCE	White to off-white powder	ODOR	Mild alcohol
MELTING POINT	270 °C		

10. STABILITY AND REACTIVITY

STABILITY	This product is stable under normal storage conditions.
POSSIBILITY OF HAZARDOUS REACTIONS	Reacts violently with water.
HAZARDOUS POLYMERIZATION	Will not occur under normal conditions.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon oxides, Magnesium oxide, Ethanol
CONDITIONS TO AVOID	Exposure to moisture or container left open for long periods of time. Heat, sparks or open flame.
INCOMPATIBILITY (Materials to Avoid)	Water, strong acids, strong oxidizing agents, air/humidity.

11. TOXICOLOGICAL INFORMATION

Oral LD 50 (rat): > 3,160 mg/kg

Biodegradability: 90% (CO₂; modified Sturm test/
OECD 301B) readily biodegradable.

Aquatic Toxicity Data:

LC 50 (Fish):	422 mg/L 96 h OECD 203
EC50 (Daphnia):	33 mg/L 48 h OECD 202.1
EC50 (Algae):	975 mg/L 72 h OECD 201

Carcinogenicity

IARC: 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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Potential health effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. Causes skin irritation.

Eyes Causes eye irritation.

Signs and Symptoms of Exposure

Cough, Shortness of breath, Headache, Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish LC50 - *Cyprinus carpio* (Carp) - 422 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates.

EC50 - *Daphnia magna* (Water flea) - 33 mg/l - 48 h

Toxicity to algae EC50 - *Desmodesmus subspicatus* (green algae) - 975 mg/l - 72 h

Persistence and degradability Biodegradability

Bioaccumulative potential no data available

Mobility in soil no data available

PBT and vPvB assessment no data available

Other adverse effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material

is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed

professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORTATION INFORMATION

DOT SHIPPING NAME

UN 3205 Alkaline earth metal alcoholates, n.o.s.

(Hazard Class 4.2, Flammable solid, Packing Group II)

Technical Name and Synonyms: Magnesium Ethylate, Magnesium Ethoxide, Magnesium Ethanolate

Transport Label(s) Required: Flammable Solid

Marine pollutant: No

Poison Inhalation Hazard: No

IMDG

UN number: 3205 Class: 4.2 Packing group: II EMS-No: F-A, S-J

Proper shipping name: ALKALINE EARTH METAL ALCOHOLATES, N.O.S. (Magnesium ethanolate)

Marine pollutant: No

IATA

UN number: 3205 Class: 4.2 Packing group: II

Proper shipping name: Alkaline earth metal alcoholates, n.o.s. (Magnesium ethanolate)

15. REGULATORY INFORMATION

OSHA Hazards

Unstable Reactive, Irritant

SARA 302 Components

SARA 302:

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

SARA 313 Components

SARA 313:

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.

SARA 311/312 Hazards

Reactivity Hazard, Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Magnesium ethanolate	2414-98-4	

New Jersey Right To Know Components

	CAS-No.	Revision Date
Magnesium ethanolate	2414-98-4	

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.

16. OTHER INFORMATION

The information contained above is given in good faith based on the best data available at this time. No warranty, expressed or implied is made. User assumes full responsibility for determining appropriate use and application of the product. Consult Specialty Organics, Inc. for further information.