

1. IDENTIFICATION

Product Name Magnesium Nitrate
Recommended use Fertilizer
Supplier Valudor Products, LLC.
 179 Calle Magdalena Suite 100
 Encinitas CA 92024
 (760) 635 8500
Emergency Telephone 800-535-5053 (Infotrac)

2. HAZARD IDENTIFICATION

Classification

This product is considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Eye Irritant	Category 2
--------------	------------

Label Elements

GHS Pictograms



Signal Word

Warning

Hazard Statements
Precautionary Statements –
 Prevention
 Response

Causes serious eye irritation
 Wash thoroughly after handling
 Wear eye protection/face protection
 If in eyes: Rinse cautiously with water for several minutes.
 Remove contact lenses if present and easy to do. Continue rinsing
 If eye irritation persists: Get medical advice/attention
 none

Hazards not other classified

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance

Chemical Name Magnesium Nitrate Hexahydrate
Formula MgN₂O₆ x 6H₂O
Molecular weight 256.41 g/mol
Cas No. 13446-18-9
Concentration > 95 %

4. FIRST-AID MEASURES

First Aid Measures

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
Skin Contact	Wash off immediately with plenty of water for 15-20 minutes. Remove all contaminated clothes and shoes. Wash clothing before reuse. If skin irritation persists, call a doctor/physician
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	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

Most important symptoms/effects, acute and delayed

Symptoms	No information available
-----------------	--------------------------

5. FIRE-FIGHTING MEASURES

<u>Suitable extinguishing Media</u>	Water spray
Unsuitable extinguishing media	Dry chemicals, Carbon dioxide, halon or foams

Specific Hazards Arising from the chemical

Hazardous combustion products	Thermal decomposition can lead to the release of irritation or toxic gases and vapors; including and not limited to: Carbon oxides Nitrogen oxides Metal oxides
-------------------------------	--

Protective equipment and precautions for fire-fighters

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Personal precautions	Avoid contact with eyes, skin and clothing. Avoid breathing dust. Use personal protection recommended in Section 8. Ensure adequate ventilation.
-----------------------------	--

Methods and materials for containment and cleanup

Methods for clean-up	Sweep or vacuum up and place in an appropriate closed
-----------------------------	---

Environmental Precautions container. Keep unauthorized personnel away. Avoid generating dust. Remove all sources of ignition. Prevent entry into waterways or sewers. Should not be released into environment

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with eyes, skin and clothing. Do not breathe vapors / spray / mist / fume. Wear eye/face protection. Avoid dust formation. Use personal protection recommended in Section 8. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Clean equipment and work area regularly.

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. Avoid storage near extreme heat, ignition sources or open flame.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the regional specific regulatory bodies

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.

Personal Protective Equipment

Eye/face protection	Wear Safety glasses with side-shields
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
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or smoke when using this product.

9. PHYSICAL and CHEMICAL PROPERTIES

Appearance	White
Physical state	Solid
Odor	Odorless
Odor threshold	No information available
pH	5.0 – 8.2, 5% solution
Melting point	89 °C / 192.2 °F
Boiling point / Boiling range	330 °C / 626 °F
Flash point	Not applicable

Evaporation rate	Not applicable
Flammability	No information available
Flammability or explosive limits	
Upper	No information available
Lower	No information available
Vapor pressure	0.01 hPa @ 20 °C
Vapor density	No information available
Specific Gravity	1.46
Solubility in water	Hygroscopic
Partition coefficient	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available

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	Exposure to moisture may affect product quality.
Incompatible materials	Ammonia, Hydrogen chloride, Strong acids. Strong bases. Oxidizing agents. Reducing agents. Organic materials. Combustible materials
Hazardous decomposition products	Hazardous combustion can lead to the release of irritating gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact	May cause skin irritation
Eye contact	Causes serious eye irritation
Inhalation	May cause irritation of respiratory tract
Ingestion	May be harmful if swallowed

Symptoms related to the physical chemical and toxicological characteristics

No information available

Delayed and immediate effects and also chronic effects form short and long-term exposure

Skin damage/irritation	Not classified
Eye damage/irritation	Causes serious eye irritation
Sensitization	Not classified
Mutagenic effects	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified

STOT – single exposure Not classified
 STOT – repeated exposure Not classified
 Aspiration hazard Not classified

Acute Toxicity**Component information**

Component	Cas-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Magnesium Nitrate	13446-18-9	5440 mg/kg	-	-

12. ECOLOGICAL INFORMATION

Ecotoxicity Should not be released to environment

Persistence and degradability No information available

Bioaccumulative potential No information available

Mobility in soil No information available

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods 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.

14. TRANSPORT INFORMATION

DOT Not regulated
 IATA Not regulated
 IMDG Not regulated

15. REGULATORY INFORMATION**International Inventories**

TSCA	Listed
------	--------

US Federal Regulations

TSCA section 12(b) Export Notification
 Not regulated

SARA 313

Product name: Magnesium Nitrate

Revision Date: 07/07/2020

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA).
Not applicable

SARA 311/312 Hazard Categorization

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Pressure	No
Reactivity	No

CERCLA/SARA 302 & 304

Section 302 & 304 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). Not applicable

CWA (Clean Water Act)

Not applicable

US State Regulations

California Proposition 65

This product does not contain any proposition 65 chemicals

16. OTHER INFORMATION

NFPA Ratings

Health: 2

Flammability: 1

Reactivity: 0

Creation Date: 02/21/2016

Revision Date: 07/07/2020

Revision Number: 2.0

Revision Information Review

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text