

# SAFETY DATA SHEET

### 1. Identification

Product identifier Magnesium 36

Other means of identification

**SDS number** 108500

Product code 108300, 108301, 108302, 108303, 108304, 108500, 108501, 108503

**Recommended use**Soil additive, micronutrient.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier Advanced Micronutrient Products, Inc.

Address 2405 W. Vassar Road (M-15) Reese, MI. 48757

Contact person Product Stewardship

Emergency Chemtrec Ph # 800-424-9300 CCN 724829

Email info@ampmicros.com

### 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Serious eye damage/eye irritation Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes serious eye damage.

**Precautionary statement** 

**Prevention** Wear protective gloves/protective clothing/eye protection/face protection.

Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. Immediately call a poison center/doctor.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
Magnesium oxide	1309-48-4	50-70
Urea	57-13-6	3-5
Calcium oxide	1305-78-8	1-3
Calcium sulfate	7778-18-9	1-3

### 4. First-aid measures

**Inhalation** If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Skin contact Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing

and shoes. Get medical attention. Wash contaminated clothing before reuse.

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Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Eye contact

Causes serious eye damage. May cause skin irritation.

Get medical attention immediately.

Ingestion Seek medical advice.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to **General information** protect themselves.

Extinguish with foam, carbon dioxide, dry powder or water fog.

During fire, gases hazardous to health may be formed.

5. Fire-fighting measures

Suitable extinguishing media

None known.

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters

Fire fighting

equipment/instructions

Specific methods Keep unnecessary personnel away.

No unusual fire or explosion hazards noted. General fire hazards

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment (See Section 8).

Methods and materials for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal.

**Environmental precautions** 

Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Cool containers exposed to heat with water spray and remove container, if no risk is involved.

7. Handling and storage

Precautions for safe handling

Do not get in eyes, on skin, on clothing. Wear appropriate personal protective equipment. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Conditions for safe storage, including any incompatibilities Store in tightly closed original container in a dry, cool and well-ventilated place. Store away from incompatible materials (See Section 10). Use appropriate container to avoid environmental contamination. Keep out of reach of children.

# 8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Calcium oxide (CAS 1305-78-8)	PEL	5 mg/m3	
Calcium sulfate (CAS 7778-18-9)	PEL	5 mg/m3	Respirable fraction.
,		15 mg/m3	Total dust.
Magnesium oxide (CAS 1309-48-4)	PEL	15 mg/m3	Total particulate.
US. ACGIH Threshold Limit Value	es		

Components	Туре	Value	Form
Calcium oxide (CAS 1305-78-8)	TWA	2 mg/m3	
Calcium sulfate (CAS 7778-18-9)	TWA	10 mg/m3	Inhalable fraction.

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#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	Form
Magnesium oxide (CAS	TWA	10 mg/m3	Inhalable fraction.
1309-48-4)			

## **US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Туре	Value	Form	
Calcium oxide (CAS 1305-78-8)	TWA	2 mg/m3		_
Calcium sulfate (CAS 7778-18-9)	TWA	5 mg/m3	Respirable.	
,		10 mg/m3	Total	

#### US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Туре	Value	Form	
Urea (CAS 57-13-6)	TWA	10 mg/m3	Total particulate.	

No biological exposure limits noted for the ingredient(s). **Biological limit values** 

Appropriate engineering

controls

Provide adequate ventilation.

### Individual protection measures, such as personal protective equipment

Solid.

Not available.

Wear safety glasses with side shields (or goggles). Eye/face protection

Skin protection

Hand protection Chemical resistant gloves are recommended.

Other Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure.

Contact chemical protective clothing manufacturer for specific information.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. Respirator type: Air-purifying respirator with an appropriate, government approved

(where applicable), air-purifying filter, cartridge or canister.

Thermal hazards Not applicable.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and chemical properties

**Appearance** 

Physical state **Form** Granular. Color Gray. Odorless. Odor **Odor threshold** Not available. Not available. pН Not available. Melting point/freezing point Initial boiling point and boiling Not available. range Not available. Flash point Not available. **Evaporation rate** Flammability (solid, gas) Non flammable. Upper/lower flammability or explosive limits

Explosive limit - upper (%) Not available. Vapor pressure Not available. Vapor density Not available. Relative density Not available.

Explosive limit - lower (%)

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926939 Version #: 01 Revision date: -Issue date: 19-May-2015 Solubility(ies)

Solubility (water) Not available. Not available. Partition coefficient

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. Not available. **Viscosity** 

Other information

**Explosive properties** Not explosive. Oxidizing properties Not oxidizing. Particle size 2 - 3 mm

# 10. Stability and reactivity

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

Stable at normal conditions. Chemical stability

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid Humidity. Contact with incompatible materials.

Incompatible materials Strong oxidizing substances.

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

## Information on likely routes of exposure

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin contact May cause skin irritation. Causes serious eye damage. Eye contact

Ingestion May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Causes serious eye damage. May cause skin irritation.

### Information on toxicological effects

Acute toxicity Causes serious eye damage. Skin corrosion/irritation May cause skin irritation. Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer. Skin sensitization Not a skin sensitizer. Germ cell mutagenicity Not classified.

Not classified. Carcinogenicity

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity Not classified. Not classified. Specific target organ toxicity single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not classified.

## 12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** 

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability None known.

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#### Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Urea (CAS 57-13-6) -2.11

**Mobility in soil** This product is water soluble and may disperse in soil.

**Mobility in general** The product is water soluble and may spread in water systems.

Other adverse effects Not available.

## 13. Disposal considerations

**Disposal instructions**Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

The generation of waste should be avoided or minimized whenever possible. When practical, recycle in an environmentally acceptable, regulatory compliant manner. Dispose of non-recyclable products in accordance with all applicable Federal, State, Provincial, and Local requirements.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Recover and recycle, if practical. Dispose in accordance with all applicable regulations.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

## 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not available.

Annex II of MARPOL 73/78 and

the IBC Code

## 15. Regulatory information

**US federal regulations** This product is hazardous according to OSHA 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

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Safe Drinking Water Act

(SDWA)

Not regulated.

### **US** state regulations

### **US. Massachusetts RTK - Substance List**

Calcium oxide (CAS 1305-78-8) Calcium sulfate (CAS 7778-18-9) Magnesium oxide (CAS 1309-48-4)

## US. New Jersey Worker and Community Right-to-Know Act

Calcium oxide (CAS 1305-78-8) Calcium sulfate (CAS 7778-18-9) Magnesium oxide (CAS 1309-48-4)

### US. Pennsylvania Worker and Community Right-to-Know Law

Calcium oxide (CAS 1305-78-8) Calcium sulfate (CAS 7778-18-9) Magnesium oxide (CAS 1309-48-4)

### **US. Rhode Island RTK**

Not regulated.

### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### **International Inventories**

Country(s) or region

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Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Inventory name

Issue date 19-May-2015

Revision date - 01

HMIS® ratings Health: 3

Flammability: 1 Physical hazard: 0

NFPA ratings



References Registry of Toxic Effects of Chemical Substances (RTECS)

HSDB® - Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer.

National Toxicology Program (NTP) Report on Carcinogens

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On inventory (yes/no)\*

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### **Disclaimer**

The information and recommendations contained in this Safety Data Sheet relate only to the specific material referred to herein (the "Material") and does not relate to the use of such Material in combination with any other material or process. The information and recommendations contained herein are believed to be current and correct as of the date prepared. However, the information and recommendations are presented without warranty, representation or license of any kind, express or implied, with respect to its accuracy, correctness or completeness, and the seller, supplier and manufacturer of the Material and their respective affiliates disclaim all liability for reliance on such information and recommendations. This Data Sheet is not a guarantee of safety. A buyer or user of the Material (a "Recipient") is responsible for ensuring that it has all current information necessary to safely use the Material for its specific purpose. Furthermore, the Recipient assumes all risk in connection with the use of the Material. The Recipient assumes all responsibility for ensuring the Material is used in a safe manner in compliance with applicable environmental, health, safety and security laws, policies and guidelines. The Supplier does not warrant the merchantability of the Material or the fitness of the Material for any particular use and assumes no responsibility for injury or damage caused directly or indirectly by or related to the use of the Material.

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