



## Safety Data Sheet

According to 29 CFR 1910.1200 (OSHA HCS)

SDS No. 2077

Review date: August 13, 2019

### 1 Identification of substance and company

#### Product details

**Product name:** *Magnesium acetate, tetrahydrate*  
**Product code:** 11130, 11485, C2543  
**Relevant identified uses of the substance:** Research and product development  
**Manufacturer/Supplier:** Noah Technologies Corporation  
1 Noah Park  
San Antonio, Texas 78249-3419  
Phone: 210-691-2000  
Fax: 210-691-2600  
Web site: www.noahtech.com  
**Emergency information:** CHEMTREC  
800-424-9300

### 2 Hazards identification

**Hazard designation:** None  
**Information pertaining to particular dangers for man and environment:** Not applicable  
**HMIS ratings (scale 0-4):** Health: 1  
Flammability: 0  
Physical hazard: 0

### 3 Composition/ Information on ingredients

**Chemical name:** Magnesium acetate, tetrahydrate  
**Designation: (CAS#):** 16674-78-5  
**EC Number:** 205-554-9  
**Formula:**  $Mg(OOCCH_3)_2 \cdot 4H_2O$   
**Synonyms:** Magnesium di(acetate)

### 4 First aid measures

**After inhalation:** Get medical attention.  
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.  
**After skin contact:** Instantly wash with water and soap and rinse thoroughly  
If irritation persists, consult a physician  
**After eye contact:** Rinse opened eye for at least 15 minutes under running water. Assure adequate flushing by separating the eyelids with fingers. Consult a physician.  
**After ingestion:** If conscious, rinse mouth out with water and seek medical attention  
**Information for doctor:** Show this safety data sheet to the doctor in attendance  
Product may cause irritation to the eyes, skin, mucous membranes and/or upper respiratory tract  
**Immediate medical attention and special treatment needed:** Some magnesium salts have produced muscle weakness, cardiac arrhythmias, respiratory effects and changes in blood chemistry following ingestion

### 5 Fire-fighting measures

**Suitable extinguishing agents:** Use water spray, carbon dioxide, alcohol-resistant foam or dry chemical.  
**Special hazards caused by the material, its products of combustion or resulting gases:** Oxides of magnesium, carbon monoxide and dioxide  
**Special fire fighting procedures:** Wear self-contained breathing apparatus  
Wear fully protective fire fighting equipment/clothing in fire situations  
**Unusual fire and explosion hazard:** Not applicable

### 6 Accidental release measures

**Person-related safety precautions:** Wear personal protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
**Measures for environmental protection:** Do not allow material to be released to the environment without proper governmental permits

<b>Measures for cleaning/collecting:</b>	Dispose of contaminated material as waste according to item 13 Place in a suitable container for proper disposal Ventilate and wash spill site after material removal is complete
<b>Additional information:</b>	See Section 7 for information on safe handling See Section 8 for information on personal protective equipment See Section 13 for information on disposal

### 7 Handling and storage

<b>Information for safe handling:</b>	Keep containers tightly sealed Store in cool, dry place in tightly closed containers Ensure good ventilation/exhaustion at the workplace
<b>Information about protection against explosions and fires:</b>	This product is not flammable
<b>Storage requirements to be met by storerooms and containers:</b>	No special requirements
<b>Incompatibility (avoid contact with):</b>	Strong acids. Strong oxidizers
<b>Further information about storage conditions:</b>	Keep container tightly sealed Store in cool, dry conditions in well sealed containers

### 8 Exposure controls/ personal protection

<b>Ventilation requirements:</b>	Always maintain exposure below permissible exposure limits. Local exhaust. Chemical fume hood.
<b>Components with critical values that require monitoring at the workplace:</b>	OSHA PEL: 15 mg/m3 (total dust) ACGIH TLV: 10 mg/m3
<b>Additional information:</b>	None
<b>Personal protective equipment:</b>	
<b>General protective and hygienic measures:</b>	The usual precautionary measures should be adhered to in handling the chemicals Keep away from foodstuffs, beverages and food Instantly remove any soiled and impregnated garments Wash hands during breaks and at the end of the work Avoid contact with the eyes and skin
<b>Personal protective equipment:</b>	
<b>Respiratory protection:</b>	Use suitable respirator when high concentrations are present
<b>(Use only NIOSH or CEN approved Equipment)</b>	Use only NIOSH/MESA or CEN approved dust mask type N95 or TYPE P1 (EN 143)
<b>Hand protection:</b>	Neoprene/Natural rubber/Polyvinyl chloride/Impervious
<b>Eye protection:</b>	Safety glasses
<b>Skin protection:</b>	Protective work clothing
<b>Additional protective equipment:</b>	Sufficient to prevent contact Emergency eyewash and safety shower
<b>Precautionary labeling:</b>	Wash thoroughly after handling Do not get in eyes, on skin or on clothing Do not breathe dust, vapor, mist, gas Store in tightly closed containers Store in a cool, dry place

### 9 Physical and chemical properties

<b>General Information:</b>	
<b>Physical state:</b>	Crystalline powder
<b>Color:</b>	White
<b>Odor:</b>	Slight odor of acetic acid (vinegar)
<b>Odor threshold:</b>	No data available
<b>Molecular Weight (Calculated):</b>	214.45
<b>pH (5% solution)</b>	No data available
<b>Melting point/freezing point/range:</b>	72 - 75 C
<b>Boiling point/range:</b>	No data available
<b>Sublimation temperature/start:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Flammability (solid, gas):</b>	
<b>Flash point:</b>	Non-flammable
<b>Autoignition temperature:</b>	No data available
<b>Danger of explosion:</b>	No data available
<b>Flammable limits:</b>	
<b>Lower:</b>	No data available
<b>Upper:</b>	No data available
<b>Evaporation rate:</b>	No data available
<b>Vapor pressure (mm Hg):</b>	No data available
<b>Vapor density:</b>	No data available

Specific gravity:	1.454
Bulk density:	No data available
Solubility in/Miscibility with water:	1200 g/L @ 15 C
Partition coefficient n-octanol/water:	No data available
Viscosity:	No data available
Other information:	No additional information

#### 10 Stability and reactivity

Reactivity:	No data available
Chemical stability:	Stable under recommended storage conditions
Possibility of hazardous reactions:	No data available
Conditions to be avoided:	No decomposition if used and stored according to specifications See section 7 for information on proper handling and storage
Materials to be avoided:	Strong acids. Strong oxidizers.
Dangerous reactions:	No dangerous reactions known
Hazardous decomposition products: (thermal and other)	Oxides of magnesium, carbon monoxide and dioxide

#### 11 Toxicological information

Acute toxicity:	
LD/LC50 values that are relevant for classification:	intravenous-mouse LD <sub>50</sub> : 111 mg/kg
Irritation or corrosion of skin:	No data available
Irritation or corrosion of eyes:	No data available
Primary irritant or corrosive effect:	
on the skin:	May cause irritation
on the eye:	May cause irritation
Sensitization:	No sensitizing effect known
Potential health effects:	No data available
Inhalation:	May be harmful
Ingestion:	May be harmful
Skin:	May cause mild irritation
Eyes:	May cause mild irritation
Signs and symptoms of exposure:	To the best of our knowledge the acute and chronic toxicity of the substance is not fully known
Carcinogenicity:	No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH

#### 12 Ecological information

Toxicity:	
Toxicity to fish:	No data available
Toxicity to daphnia and other aquatic invertebrates:	No data available
Toxicity to algae:	No data available
Persistence and degradability:	
Biodegradability:	No data available
Bioaccumulative potential:	No data available
Bioaccumulation:	No data available
Mobility in soil:	No data available
Other adverse effects:	No data available

#### 13 Disposal considerations

Recommendation:	Consult state, local or national regulation for proper disposal Allow professional disposal company to handle waste Must be specially treated under adherence to official regulations
Unclean packaging recommendation:	Disposal must be made according to official regulations

#### 14 Transport information

##### Land transport DOT

Proper shipping name:	Chemicals Non-Hazardous
Technical name:	Magnesium acetate, tetrahydrate

##### Air transport ICAO-TI and IATA-DGR:

Proper shipping name:	Chemicals Non-Hazardous
Technical name:	Magnesium acetate, tetrahydrate

**UPS Ground / FedEx Ground**

**Proper shipping name:** Chemicals Non-Hazardous  
**Technical name:** Magnesium acetate, tetrahydrate

**UPS Air**

**Proper shipping name:** Chemicals Non-Hazardous  
**Technical name:** Magnesium acetate, tetrahydrate

**15 Regulatory information**

**SARA Section 302 Extremely Hazardous components and corresponding TPQs:** Not subject to reporting requirements  
**SARA Section 311 / 312 hazards:** Chronic Health Hazard  
**SARA Section 313 components:** Not subject to reporting requirements  
**California Proposition 65 components:** Not subject to reporting requirements  
**TSCA:** This product is listed in the TSCA inventory

**16 Other information**

The above information is accurate to the best of our knowledge. However, since data, safety standards and government regulation are subject to change and the conditions of handling and use, or misuse are beyond our control. NOAH MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. User should satisfy himself that he has all current data relevant to his particular use.