



# SAFETY DATA SHEET

Preparation Date: 8/7/2015 Revision date 7/26/2019 Revision Number: G2

# 1. IDENTIFICATION

**Product identifier** 

Product code: MA127

Product Name: MAGNESIUM PHOSPHATE, DIBASIC, TRIHYDRATE, FCC

Other means of identification

**Synonyms:** Dibasic magnesium phosphate trihydrate

Dimagnesium phosphate trihydrate
Magnesium dibasic phosphate trihydrate
Megnesium hydrogen phosphate trihydrate
Magnesium monohydrogen phosphate trihydrate

CAS #: 7782-75-4
RTECS # Not available
CI#: Not available

Recommended use of the chemical and restrictions on use

**Recommended use:** Research and Development. Laboratory chemicals.

Uses advised against No information available

**Supplier:** Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Tom Tyner (USA - West Coast)Contact Person:Ibad Tirmiz (USA - East Coast)

# 2. HAZARDS IDENTIFICATION

### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

# <u>Label elements</u>

Not hazardous			

Hazards not otherwise classified (HNOC)

Not Applicable

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# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Magnesium Phosphate Dibasic, Trihydrate	7782-75-4	100

### 4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

**Inhalation:** Move 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. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms Health injuries are not known or expected under normal use

May cause irritation of respiratory tract

Ingestion of large amounts may cause gastrointestinal/digestive irritation or upset.

Hypomagnesemia

May cause cardiovascular effects

May affect behavior/central nervous system

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

**Protection of first-aiders** 

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

# 5. FIRE-FIGHTING MEASURES

**Extinguishing Media** 

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire,

extinguish the fire using an agent suitable for the type of

surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

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Hazardous combustion products

No information available.

**Specific hazards**No information available.

**Special Protective Actions for Firefighters** 

Specific Methods: No information available

**Special Protective Equipment for Firefighters:** 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: Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin,

eyes and clothing.

**Environmental precautions** Prevent further leakage or spillage. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

# Safe Handling Advice:

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

# Conditions for safe storage, including any incompatibilities

### **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

#### **Incompatible Materials:**

Oxidizing agents

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### National occupational exposure limits

**United States** 

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Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Magnesium Phosphate	7782-75-4	None	None	None	None
Dibasic, Trihydrate					

#### Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Magnesium Phosphate	7782-75-4	None	None	None	None
Dibasic, Trihydrate					

#### **Australia and Mexico**

Component	CAS No	Australia	Mexico
Magnesium Phosphate Dibasic, Trihydrate	7782-75-4	None	None

### Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation, especially in confined areas. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

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

# **Personal Protective Equipment**

**Eye protection:** Goggles or Safety glasses with side-shields.

**Skin and body protection:** Chemical resistant apron

Gloves

Long sleeved clothing

**Respiratory protection:** Effective dust mask. or. Wear respirator with dust filter. Use a dust respirator

under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to

use an approved/certified respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or

smoke. Wash hands before breaks and immediately after handling the product

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Appearance:Color:SolidCrystalline powder.White.

Odor:TasteFormulaOdorless.No information available.MgHPO4.3H2O

Molecular/Formula weight (g/mole): Flammability (solid, gas)
174.33 g/mol

No information available

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Flash Point Tested according to:

Not available

Autoignition Temperature (°C/°F):

No information available

**Lower Explosion Limit (%):** No information available

**Upper Explosion Limit (%):** 

Melting point/range(°C/°F):

Decomposition temperature(°C/°F): 550°C/1022°F

No information available

**Bulk density:** 

No information available

Density (g/cm3): 2.13

Specific gravity:

No information available

No information available

No information available

Boiling point/range(°C/°F):

No information available

Vapor pressure @ 20°C (kPa):

No information available

**Evaporation rate:** 

Vapor density: 6.01

VOC content (q/L): No information available

No information available Odor threshold (ppm):

No information available

Partition coefficient

(n-octanol/water):

Viscosity: No information available

No information available

Miscibility:

Solubility:

No information available

Practically insoluble in water

# 10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents

**Chemical stability** 

Stability:

Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid:

Heat. Incompatible materials.

Incompatible Materials:

Oxidizing agents

Hazardous decomposition

No information available.

products:

Other Information

Corrosivity:

No information available

Special Remarks on Corrosivity: No information available

# 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

**Principal Routes of Exposure:** 

Ingestion. Inhalation.

**Acute Toxicity** 

**Component Information** 

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Magnesium Phosphate Dibasic, Trihydrate

CAS No 7782-75-4

LD50/oral/rat = No information available

**LD50/oral/mouse** = No information available

**LD50/dermal/rabbit** = No information available

LD50/dermal/rat = No information available

**LC50/inhalation/rat** = No information available

**LC50/inhalation/mouse** = No information available

Other LD50 or LC50information = No information available

#### **Product Information**

LD50/oral/rat =

Value - Acute Toxicity = No information available

LD50/oral/mouse =

Value - Acute Tox = No information available

LD50/dermal/rabbit

Value - Acute Toxicity = No information available

LD50/dermal/rat

**VALUE - Acute Tox =** No information available

LC50/inhalation/rat

**VALUE-Vapor** = No information available

**VALUE-Gas** = No information available

**VALUE-Dust/Mist** = No information available

LC50/Inhalation/mouse

Product code: MA127

**VALUE-Vapor** = No information available

**VALUE - Gas =** No information available

**VALUE - Dust/Mist =** No information available

**Symptoms** 

**Skin Contact:** May cause skin irritation.

**Eye Contact:** May cause eye irritation.

**Inhalation** May cause irritation of respiratory tract.

Ingestion May cause digestive (gastointestinal) tract irritation. Magnesium salts are

absorbed very slowly. Oral administration causes nothing more than purging and is not likely to produce serious toxic effects. However, some compounds may cause hypermagnesemia in individuals with serverely impaired renal function which may affect behavior/central nervous system and respiratory system. Symptoms of hypermagnesemia poisoning may include central nervous system depression, lethargy, coma, circulatory failure, and respiratory arrest due to neuromuscular blockade (respiratory paralysis). Also, if a significant amount of phosphate is absorbed, the following may occur: mineral imbalance in the body,

adversely affecting the osmotic pressure of body fluids resulting in

hyperphosphatemia, hypocalcemia. Symptoms of hyperphosphatemia, may include dehydration, metabolic acidosis, abdominal pain, nausea, vomiting, diarrhea, anorexia, weakness, lethargy, fatigue, sleep disturbances, hypotension,

shortness of breath. Symptoms of hypocalcemia may include confusion,

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hallucinations, depression, tetany, seizures, carpal spasms/muscle twitching, muscle cramps, numbness and tingling of the hands and feet, and around the

mouth, bradycardia, dysrhythmias).

**Aspiration hazard** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Chronic Toxicity** No information available.

**Sensitization:** No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable	Australia - Prohibited
						Carcinogenic Substances	Carcinogenic Substances
Magnesium Phosphate Dibasic, Trihydrate	7782-75-4	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects:No information availableDevelopmental Effects:No information availableTeratogenic Effects:No information available

**Specific Target Organ Toxicity** 

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available.
No information available.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available

**Bioaccumulative potential:** No information available.

Mobility in soilNo information availableOther adverse effectsNo information available.

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### 13. DISPOSAL CONSIDERATIONS

# **Disposal Methods**

# Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Magnesium Phosphate 7 Dibasic, Trihvdrate	7782-75-4	None	None	None	None

# 14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

**Proper Shipping Name:** No information available **Hazard Class** No information available **Subsidiary Class** No information available Packing group: No information available Emergency Response Guide No information available

Number

Marine Pollutant No data available DOT RQ (lbs): No information available **Special Provisions** No Information available Symbol(s): No information available **Description:** No information available

TDG (Canada)

**UN-No:** Not Regulated

**Proper Shipping Name:** No information available No information available **Hazard Class Subsidiary Risk:** No information available **Packing Group:** No information available No Information available **Marine Pollutant** No information available **Description:** 

**ADR** 

**UN Number** Not regulated

**Proper Shipping Name:** No information available Transport hazard class(es) No information available Packing group No information available **Subsidiary Risk:** No information available

**IMDG** 

Not Regulated UN-No:

No information available **Proper Shipping Name:** No information available **Hazard Class: Subsidiary Risk:** No information available Packing Group: No information available **Marine Pollutant** No information available

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RID

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group

No information available
No information available
No information available

ICAO (air)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:

No information available
No information available
No information available

IATA

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group
Precautionary Statements 
No information available
No information available
No information available
No information available

Response

**Special Provisions** No information available

### 15. REGULATORY INFORMATION

#### International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Magnesium Phosphate7 Dibasic, Trihydrate	7782-75-4	Not Listed	Not present	Present	Not present	Present	Present	Not present

### **U.S. Regulations**

Magnesium Phosphate Dibasic, Trihydrate

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1434

FDA - 21 CFR - Total Food Additives 175.300, 181.29, 184.1434

- List Sourced from EAFUS

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

WARNING: This product contains a chemical known to the State of California to cause cancer. (See table below)

### Chemicals Known to the State of California to Cause Reproductive Toxicity:

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
Magnesium Phosphate Dibasic, Trihydrate	7782-75-4	Carcinogen	Developmental	Not Listed	Not Listed

### CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and	Section 302 Extremely Hazardous	Section 302 Extremely Hazardous	Section 313 - Chemical Category	Section 313 - Reporting de minimis
		their Reportable Quantities	Substances and TPQs	Substances and RQs		40

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Magnesium	7782-75-4	None	None	None	None	None
Phosphate Dibasic,						
Trihydrate						

### U.S. TSCA

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Magnesium Phosphate Dibasic, Trihydrate	7782-75-4	Not Applicable	Not Applicable

#### Canada

#### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Not a dangerous product according to HPR classification criteria.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

#### **DSL/NDSL**

Component	CAS No	Canada (DSL)	Canada (NDSL)
Magnesium Phosphate Dibasic,	7782-75-4	Not Listed	Not Listed
Trihydrate			

Component	CAS No	CEPA Schedule I - Toxic Substances
Magnesium Phosphate Dibasic, Trihydrate	7782-75-4	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Magnesium Phosphate Dibasic, Trihydrate	7782-75-4	Not listed

### **EU Classification**

# EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Magnesium Phosphate Dibasic, Trihydrate	7782-75-4	

# EU - CLP (1272/2008)

# R-phrase(s)

not determined (not applicable)

# S -phrase(s)

none

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Magnesium Phosphate	7782-75-4		No information	
Dibasic, Trihydrate				

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### The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

None

# **16. OTHER INFORMATION**

Preparation Date: 8/7/2015
Revision date 7/26/2019
Prepared by: Sonia Owen

**Disclaimer:** All chemicals may pose unknown hazards and should be used with caution. This

Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the

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**End of Safety Data Sheet** 

Product code: MA127