1. IDENTIFICATION

Product identifier

Product code: MA120
Product Name: MAGNESIUM OXIDE, LIGHT POWDER, USP

Other means of identification

Synonyms:
- Calcined brucite
- Calcined magnesia
- Calcined magnesite
- Calcined brucite
- Maglite
- Magnesia
- Óxido de magnesio (Spanish)
- Oxyde de magnesium (French)

CAS #: 1309-48-4
RTECS #: OM3850000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Ceramics. Fertilizer composites.
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 number: Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Not Hazardous
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium Oxide, light</td>
<td>1309-48-4</td>
<td>100</td>
</tr>
</tbody>
</table>

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
- May cause eye/skin/respiratory tract irritation
- May cause digestive (gastrointestinal) tract irritation
- Ingestion may cause nausea, vomiting, and diarrhea
- May cause "Metal Fume Fever", a Flu-like condition consisting of fever, chills, sweating, metallic taste in mouth, dry mouth and throat, cough, weakness, muscle aches and joint pain, headache, nausea, vomiting, chest tightness, difficulty breathing and shortness of breath

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.

Product code: MA120
Product name: MAGNESIUM OXIDE, LIGHT POWDER, USP
Specific hazards arising from the chemical

Hazardous Combustion Products: No information available.

Specific hazards: Magnesium Oxide may ignite and explode when heated with sublimed sulfur, magnesium powder, or aluminum powder. It reacts violently with interhalogens (bromine pentafluoride, chlorine trifluoride) and produces flames. When combined with phosphorus pentachloride, it incandesces.

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: Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment.

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

Conditions for safe storage, including any incompatibilities


Incompatible Materials: Chlorine trifluoride Phosphorous Pentachloride Performic acid Bromine pentafluoride
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
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<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WEEL</th>
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<tbody>
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<td>15 mg/m³ TWA</td>
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<td>10 mg/m³ TWA inhalable particulate matter</td>
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Canada

<table>
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<th>Canada - Ontario</th>
<th>Canada - Quebec</th>
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<tbody>
<tr>
<td>Magnesium Oxide, light</td>
<td>1309-48-4</td>
<td>10 mg/m³ TWA fume</td>
<td>10 mg/m³ TWA fume, inhalable Mg respirable dust and fume</td>
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<td>None</td>
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Australia and Mexico

<table>
<thead>
<tr>
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<th>CAS-No.</th>
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<tbody>
<tr>
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<td>1309-48-4</td>
<td>10 mg/m³ TWA</td>
<td>10 mg/m³ TWA</td>
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</tbody>
</table>

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. 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.

Product code: MA120  Product name: MAGNESIUM OXIDE, LIGHT POWDER, USP
Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
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<tr>
<td>Appearance</td>
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<td>Color</td>
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<tr>
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<tr>
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</tr>
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<td>Boiling point/range(°C/°F)</td>
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<tr>
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</tr>
<tr>
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<tr>
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<tr>
<td></td>
<td>Soluble in ammonium salt solutions</td>
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<tr>
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<td>Insoluble in Ethanol</td>
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<tr>
<td></td>
<td>Very slightly soluble in water</td>
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<td>Miscibility</td>
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<td>Miscibility</td>
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<td>Flash Point Tested according to</td>
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<td>Melting point/range(°C/°F)</td>
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<td>Specific gravity</td>
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<tr>
<td>pH</td>
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<tr>
<td>Vapor pressure @ 20°C (kPa)</td>
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<td></td>
<td>Insoluble in Ethanol</td>
</tr>
<tr>
<td></td>
<td>Very slightly soluble in water</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
Magnesium Oxide may ignite and explode when heated with sublimed sulfur, magnesium powder, or aluminum powder. It reacts violently with interhalogens (bromine pentafluoride, chlorine trifluoride) and produces flames. When combined with phosphorus pentachloride, it incandesces. Hygroscopic. Air Sensitive. Readily absorbs moisture and carbon dioxide when exposed to air. Hydrates slowly in contact with moisture. Reacts violently with chlorine trifluoride and phosphorous pentachloride. Reactive with oxidizing agents. Reactive with acids.

Chemical stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid:

Product code: MA120
Product name: MAGNESIUM OXIDE, LIGHT POWDER, USP
**Incompatible Materials:**
- Chlorine trifluoride
- Phosphorous Pentachloride
- Performic acid
- Bromine pentafluoride
- Oxidizing agents
- Powdered metals
- Acids

**Hazardous decomposition products:**
- Oxygen. Magnesium.

**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**

<table>
<thead>
<tr>
<th>Magnesium Oxide, light</th>
<th>CAS-No.</th>
<th>1309-48-4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LD50/oral/rat</strong></td>
<td>3990 mg/kg Oral LD50 Rat; 3870 mg/kg Oral LD50 Rat</td>
<td></td>
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<td><strong>LD50/oral/mouse</strong></td>
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</tr>
<tr>
<td><strong>LD50/dermal/rabbit</strong></td>
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</tr>
<tr>
<td><strong>LD50/dermal/rat</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>LC50/inhalation/rat</strong></td>
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<tr>
<td><strong>LC50/inhalation/mouse</strong></td>
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</tr>
<tr>
<td><strong>Other LD50 or LC50 information</strong></td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

**Product Information**

- **LD50/oral/rat**
  - **VALUE- Acute Tox Oral** = 3870 mg/kg

- **LD50/oral/mouse**
  - **Value - Acute Tox Oral** = No information available

- **LD50/dermal/rabbit**
  - **VALUE-Acute Tox Dermal** = No information available

- **LD50/dermal/rat**
  - **VALUE - Acute Tox Dermal** = No information available

- **LC50/inhalation/rat**
  - **VALUE-Vapor** = No information available
  - **VALUE-Gas** = No information available
  - **VALUE-Dust/Mist** = No information available

**Product code:** MA120  
**Product name:** MAGNESIUM OXIDE, LIGHT POWDER, USP
LC50/Inhalation/mouse
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. May cause “metal fume fever”. This is a flu-like illness with symptoms such as metallic taste in the mouth, dryness of the mouth and throat, headache, fatigue, fever, chills, nausea, vomiting, muscle aches and joint pains, chest tightness and cough, difficulty breathing and shortness of breath.

**Ingestion**
May cause gastrointestinal (digestive) tract irritation with nausea, vomiting, diarrhea.

**Aspiration hazard**
No information available.

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

**Chronic Toxicity**
Inhalation: Repeated or prolonged exposure may result in “Metal Fume Fever”. Metal Fume Fever is a flu-like condition consisting of fever, chills, sweating, aches, pains, cough, weakness, headache, nausea, vomiting, and breathing difficulty. There is no permanent ill-effect. Metal Fume Fever resulting from Magnesium Oxide fumes has reportedly occurred in foundry workers. Repeated or prolonged exposure may also affect the blood and brain based on animal data. No human data found.

**Sensitization:**
No information available.

**Mutagenic Effects:**
No information available

**Carcinogenic effects:**
Not considered carcinogenic.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
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<tbody>
<tr>
<td>Magnesium Oxide, light</td>
<td>1309-48-4</td>
<td>Not listed</td>
<td>A4 Not Classifiable as a Human Carcinogen</td>
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<td>Not listed</td>
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</tr>
</tbody>
</table>

**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 available

**Developmental Effects:**
No information available

**Teratogenic Effects:**
No information available

**Product code:** MA120
**Product name:** MAGNESIUM OXIDE, LIGHT POWDER, USP
Specific Target Organ Toxicity

STOT - single exposure  No information available.
STOT - repeated exposure  No information available.
Target Organs:  No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:  No data available.

Persistence and degradability:  No information available

Bioaccumulative potential:  No information available.

Mobility:  No information available.

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

<table>
<thead>
<tr>
<th></th>
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<th></th>
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<th></th>
<th></th>
</tr>
</thead>
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<td>Magnesium Oxide, light</td>
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</table>

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 Number:  No information available
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
Hazard Class:  No information available
Subsidiary Risk:  No information available
Packing Group:  No information available

Product code:  MA120  Product name:  MAGNESIUM OXIDE, LIGHT POWDER, USP
Marine Pollutant: No Information available
Description: No information available

ADR
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: No information available
Subsidiary Risk: No information available

IMO / IMDG
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Marine Pollutant: No information available

RID
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Hazard Class: No information available
Subsidiary Risk: No information available
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ICAO
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Proper Shipping Name: No information available
Hazard Class: No information available
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Subsidiary Risk: No information available
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ERG Code: No information available
Special Provisions: No information available

15. REGULATORY INFORMATION

International Inventories

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<tr>
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<th>KOREA KECL</th>
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<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
</tr>
</thead>
</table>

U.S. Regulations

Magnesium Oxide, light
Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: 1144
Pennsylvania RTK: Present
Minnesota - Hazardous Substance List: Present
California Directors List of Hazardous Substances: Present
FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1431

Product code: MA120
Product name: MAGNESIUM OXIDE, LIGHT POWDER, USP

Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
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CERCLA/SARA

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<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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U.S. TSCA

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<tr>
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<th>TSCA 8(d) - Health and Safety Reporting</th>
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<td>1309-48-4</td>
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</table>

Canada

WHIMIS 2015 - GHS Classifications

Component: Magnesium Oxide, light
CAS-No.: 1309-48-4

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.

WHIMIS 1988 Hazard Class
Non-controlled

Components
Magnesium Oxide, light

WHIMIS 1988
Uncontrolled product according to WHIMS classification criteria

Canada Controlled Products Regulation:
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

<table>
<thead>
<tr>
<th>Components</th>
<th>WHIMIS Ingredient Disclosure List -</th>
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<tbody>
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Inventory

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<th>Canada (NDSL)</th>
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Magnesium Oxide, light | 1309-48-4 | Present | Not Listed

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<th>Components</th>
<th>CAS-No.</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
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</thead>
<tbody>
<tr>
<td>Magnesium Oxide, light</td>
<td>1309-48-4</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

EU Classification
EU GHS - SV - CLP 1272/2008

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>EU GHS - SV - CLP (1272/2008)</th>
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<tbody>
<tr>
<td>Magnesium Oxide, light</td>
<td>1309-48-4</td>
<td>Not listed</td>
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</table>

EU - CLP (1272/2008)

R-phrase(s)
not determined (not applicable)

S -phrase(s)
none

<table>
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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
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<td>1309-48-4</td>
<td>No information</td>
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</table>

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

Indication of danger:
None.

16. OTHER INFORMATION

Preparation Date: 8/24/2015
Revision Date: 8/8/2018
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 completeness or accuracy of the information contained herein.

End of Safety Data Sheet

Product code: MA120  Product name: MAGNESIUM OXIDE, LIGHT POWDER, USP