

SAFETY DATA SHEET

1. Product and Company Identification

Product identifier Magnesium Oxide

Other means of identification Not available

Recommended use Water Treatment Filter Media

Recommended restrictions

Manufacturer

Pro Products LLC 7201 Engle Road

None known

Fort Wayne, IN 46804-5875 US

Phone 260-483-2519

Emergency Phone: 1-800-424-9300 (CHEMTREC)

2. Hazards Identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

Hazard statement The mixture does not meet the criteria for classification.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

None known.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

Supplemental information Not applicable.

3. Composition/Information on Ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	%
Magnesium oxide		1309-48-4	60-100

Composition comments

US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

4. First Aid Measures

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Skin contact Brush away excess of dry material. Flush with cool water. Wash with soap and water. Obtain

Brush away excess of dry material. Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

inculcal attention if initiation persists.

Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain

medical attention if irritation persists.

Ingestion Do not induce vomiting. If symptoms persist, get medical attention.

Most important

symptoms/effects, acute and

delayed

Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. In case of shortness of breath, give oxygen. Symptoms may be delayed.

General information

Avoid breathing dusts from this material. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Keep out of reach of children.

#22237 Page: 1 of 6 Issue date 17-April-2015

5. Fire Fighting Measures

Suitable extinguishing media

Unsuitable extinguishing

media

Treat for surrounding material.

None known.

Specific hazards arising from

the chemical

Not available.

Special protective equipment and precautions for firefighters Firefighters should wear full protective clothing including self contained breathing apparatus.

Fire-fighting

equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials.

In the event of fire, cool tanks with water spray. Cool containers exposed to flames with water until well after the fire is out.

General fire hazards

Specific methods

Hazardous combustion

products

No unusual fire or explosion hazards noted.

May include and are not limited to: Oxides of magnesium.

Explosion data

Sensitivity to mechanical

impact

Sensitivity to static

discharge

Not available.

Not available.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. For waste

disposal, see section 13 of the SDS.

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

7. Handling and Storage

Precautions for safe handling

Use good industrial hygiene practices in handling this material. Avoid breathing dust. Avoid prolonged exposure. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities Store in a closed container. Store away from incompatible materials (see Section 10 of the SDS). 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)

Form Components Value **Type** PFI Magnesium oxide (CAS 15 mg/m3 Total particulate. 1309-48-4)

US. ACGIH Threshold Limit Values

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

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use only under good ventilation conditions or with respiratory protection.

Individual protection measures, such as personal protective equipment

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

Skin protection

Hand protection Rubber gloves. Confirm with a reputable supplier first.

As required by employer code. Other

Wear positive pressure self-contained breathing apparatus (SCBA). Where exposure guideline Respiratory protection

levels may be exceeded, use an approved NIOSH respirator.

#22237 Page: 2 of 6 Issue date 17-April-2015 Thermal hazards

Not applicable.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance Granular to powdered solid

Solid. **Physical state** Solid. **Form** White Color Odorless Odor **Odor threshold** Not available.

10 (saturated solution) 5072 °F (2800 °C) Melting point/freezing point

Initial boiling point and boiling

range

6479.6 °F (3582 °C) @760 mm Hg

Pour point Not available. Not available. Specific gravity Not available. **Partition coefficient** (n-octanol/water)

Flash point Not applicable **Evaporation rate** Not applicable Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not applicable

Flammability limit - upper

(%)

Not applicable

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

Vapor density Not available. Not available. Relative density Solubility(ies) Slightly

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

Other information

Density 3.50 - 3.60

10. Stability and Reactivity

Reacts vigorously with acids. Reactivity

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Stable under recommended storage conditions. **Chemical stability**

Conditions to avoid Do not mix with other chemicals.

Acids. Phosphorus. Chlorine. Oxidizers. Chlorine trifluoride. Phosphorus pentachloride. Incompatible materials

Hazardous decomposition

products

May include and are not limited to: Oxides of magnesium.

11. Toxicological Information

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

Expected to be a low ingestion hazard. Ingestion Prolonged inhalation may be harmful. Inhalation

No adverse effects due to skin contact are expected. Skin contact Eye contact Direct contact with eyes may cause temporary irritation.

#22237 Page: 3 of 6 Issue date 17-April-2015 Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Test Results Components **Species**

Magnesium oxide (CAS 1309-48-4)

LC50 Inhalation

LC50 Not available

LD50 Oral

LD50 Not available

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Exposure minutes Not available. Not available. Erythema value Oedema value Not available.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Corneal opacity value Not available. Iris lesion value Not available. Conjunctival reddening Not available.

value

Conjunctival oedema value Not available. Not available. Recover days

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity Not classified. Mutagenicity Not classified. Carcinogenicity See below.

ACGIH Carcinogens

Magnesium oxide (CAS 1309-48-4) A4 Not classifiable as a human carcinogen.

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

Specific target organ toxicity -Not classified.

repeated exposure

Aspiration hazard Not available.

Prolonged inhalation may be harmful. **Chronic effects**

Further information This product has no known adverse effect on human health.

Name of Toxicologically **Synergistic Products**

Not available.

12. Ecological Information

No data available. **Ecotoxicity**

No data is available on the degradability of this product. Persistence and degradability

Bioaccumulative potential No data available. No data available. Mobility in soil Mobility in general Not available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in **Disposal instructions**

accordance with all applicable regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

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

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

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

14. Transport Information

Canada: TDG Proof of Classification: In accordance with Part 2.2.1 (SOR/2014-152) of the General

> Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue. If applicable, the technical name and the classification of

the product will appear below.

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

This product has been classified in accordance with the hazard criteria of the Controlled Products Canadian federal regulations

Regulations and the SDS contains all the information required by the Controlled Products

Regulations.

Canada WHMIS Ingredient Disclosure: Threshold limits

1 % Magnesium oxide (CAS 1309-48-4)

WHMIS status Not Controlled

This product is NOT known to be a "Hazardous Chemical" as defined by the OSHA Hazard US federal regulations

Communication Standard, 29 CFR 1910.1200.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

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

Not regulated.

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

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No **Hazard categories**

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

SARA 302 Extremely

Nο

hazardous substance

Nο

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

Food and Drug

Not regulated.

Administration (FDA)

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.

US - California Hazardous Substances (Director's): Listed substance

Magnesium oxide (CAS 1309-48-4)

#22237 Page: 5 of 6 Issue date 17-April-2015

Listed

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed

US - Minnesota Haz Subs: Listed substance

Magnesium oxide (CAS 1309-48-4) Listed.

US - New Jersey RTK - Substances: Listed substance

Magnesium oxide (CAS 1309-48-4) Listed.

US - Texas Effects Screening Levels: Listed substance

Magnesium oxide (CAS 1309-48-4) Listed.

US. Massachusetts RTK - Substance List

Magnesium oxide (CAS 1309-48-4) Listed.

US. Pennsylvania RTK - Hazardous Substances

Magnesium oxide (CAS 1309-48-4) Listed.

US. Rhode Island RTK

Not regulated.

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Disclaimer

The data contained in this material safety data sheet was obtained from sources that were technically accurate, reliable, and state of the art when this document was prepared. If data was unavailable to complete certain sections, the absence of that data is identified in this document. Because the supplier cannot know the exact circumstances during actual use of this product, other hazards, exposure scenarios, disposal considerations, and regulations may apply and it is the responsibility of the user to read and understand the product label and this document before use. Do not use the product for purposes other than those stated in Section 1.

Issue date17-April-2015Effective date17-April-2015Expiry date17-April-2018

Further information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.

Prepared by Dell Tech Laboratories, Ltd. Phone: (519) 858-5021

Other information This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication

Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of

Chemicals (GHS).

This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.

Redbook revision #1, 6.22.12