



SAFETY DATA SHEET

Issue Date 08/12/2014

Revision Date 09/24/2020

Version 3

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product identifier

Product Name MagOx ®98 HR

Other means of identification

Product Code MagOx® 98 HR

Synonyms

Recommended use of the chemical and restrictions on use

Recommended Use Chemical intermediate

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address

Premier Magnesia, LLC, 75 Giles Place, Waynesville NC 28786

Emergency telephone

number

Company Phone Number 828-452-4784

24 Hour Emergency Phone Chemtrec 1-800-424-9300

Number

Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification: Not classified under US GHS

GHS Labeling Elements: No GHS labeling.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Common name Magnesium oxide

Synonyms None

Mg(OH)₂

Chemical Name	CAS No.	Weight-%	Trade Secret
Magnesium oxide	1309-48-4	100	No

4. FIRST AID MEASURES

First aid measures

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, seek medical attention.

Skin Contact	Wash skin with soap and water.
Inhalation	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately.
Ingestion	Ingestion is an unlikely route of exposure. Never give anything by mouth to an unconscious person. Do not induce vomiting to unless instructed to do so by qualified medical personnel, since material may be aspirated into the lungs. Seek immediate medical attention. Ingestion may cause gastrointestinal upset.
Note to physicians	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Do not direct fire suppression water to waterways or stormwater drains.

Unsuitable extinguishing media None known.

Specific hazards arising from the chemical

Water reacts with magnesium oxide producing magnesium hydroxide and heat. Do not allow water to reach inside containers. Product may swell, generate heat, and burst its container. Use sufficient water to absorb heat that may be generated.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge

None.

Protective equipment and precautions 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, especially in confined areas. Use neoprene gloves. Wear safety glasses with side shields or goggles.

Environmental precautions

Environmental precautions Follow federal, State and Local guidelines for disposal.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage when safe to do so.

Methods for cleaning up Carefully clean up and place material into a suitable container, being careful to avoid creating excessive dust from dried product. If conditions warrant, clean up personnel should wear approved respiratory protection, gloves and goggles to prevent irritation from contact and/or inhalation. Follow Federal, State and local regulations on use of respiratory protection. Do not use aluminum containers for material storage. Do not rinse into waterways or stormwater drains unless instructed to do so by regulatory authorities.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in dry location. Water reacts with magnesium oxide producing magnesium hydroxide and heat.

Incompatible materials Keep away from acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Handle in a manner to minimize dust generation.

Exposure Guidelines OSHA PEL 15mg/m3 total dust (Table Z-3)

Engineering Controls Provide enough ventilation, in both volume and air flow patterns to control mist/dust concentrations below allowable exposure limits.

Individual protection measures, such as personal protective equipment

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

Skin and body protection Wear neoprene gloves and long sleeve clothing.

Respiratory protection Use NIOSH approved respirators in accordance with requirements of 29 CFR 1910. 134, appropriate for level of exposure incurred.

General Hygiene Considerations Avoid contact with eyes, skin and clothing. After handling this product, wash hands before eating or drinking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Solid		
Appearance	Powder	Odor	Odorless
Color	Whitish	Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	NA	
Melting point/freezing point	Melt point > 2100C	
Boiling point / boiling range	NA	
Flash point	NA	
Evaporation rate	NA	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific Gravity	3.56	
Water solubility	<1%	
Solubility in other solvents	No information available	

Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	20-35 lb / ft ³

10. STABILITY AND REACTIVITY

Reactivity

Reacts with acids, Interhalogens (bromine pentafluoride, chlorine trifluoride). Avoid contact with aluminum metal. Incandescent reaction with phosphorus pentachloride. Water will react with magnesium oxide to form magnesium hydroxide and release heat and steam.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization	Hazardous polymerization does not occur.
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Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials: Aluminum metal

Hazardous Decomposition Products

Heat and steam.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Product does not present an acute toxicity hazard based on known or supplied information
Inhalation	No data available.
Eye contact	No data available.
Skin Contact	No data available.
Ingestion	No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Magnesium oxide	8500 mg/kg rat	No data available	No data available

Information on toxicological effects

Symptoms No information available.

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

Irritation May cause eye irritation. Dust may be mechanically irritating.
Sensitization No information available.
Germ cell mutagenicity No information available.
Carcinogenicity No information available.
Reproductive toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.

Numerical measures of toxicity - Product Information**12. ECOLOGICAL INFORMATION**

Ecotoxicity No data available

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Disposal of wastes This product as sold does not exhibit any characteristics of a hazardous waste. Follow all applicable federal, state and local regulations for safe disposal. Do not dispose of liquids in a landfill. Do not direct or dispose into waterways or stormwater drains.

Contaminated packaging Do not reuse container.

14. TRANSPORT INFORMATION

Note: None

DOT Not regulated by DOT as a hazardous material. No hazard class, label or placard required, no UN or NA number assigned.

15. REGULATORY INFORMATION**International Inventories**

TSCA Listed
DSL/NDSL Listed
IECSC Listed
KECI Listed
PICCS Listed

ENCS Listed
 AICS Listed
 Eu REACH Exempt

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
 IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 AICS - Australian Inventory of Chemical Substances

US Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories HNOC – ingestion may cause gastrointestinal upset. Dust may be mechanical irritant.


CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65  **WARNING:** This product can expose you to chemicals including nickel and other chemicals which are known to the State of California to cause cancer, and lead and other chemicals which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Magnesium oxide	X	X	X

EPA Pesticide Registration Not Applicable

16. OTHER INFORMATION

NFPA Health hazards 1 Flammability 0 Instability 0 Specific Hazards

Revision Date 9/24/2020
 Revision Note Update Prop 65, format update

No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet