



SAFETY DATA SHEET

Issue Date 01-Dec-2014

Revision Date 01-May-2020

Version 2

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

Product identifier

Product Name MAGOX ® 93HR 325

Other means of identification

Product Code MAGOX ®
Synonyms Magnesium Oxide, Mag Oxide

Recommended use of the chemical and restrictions on use

Recommended Use Chemical grade Magnesium Oxide
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 Number Chemtrec 1-800-424-9300
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 CAS# 1309-42-8.
Synonyms Magnesium Oxide , Mag oxide

Mg(OH)₂

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

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 get inside containers: reaction with water will cause product to swell, generate heat, and burst its container. If contact is unavoidable, use sufficient water to safely absorb the heat that may be generated.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge 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 Do not allow material to enter waterways or stormwater drains. Stop spill or release when safe to do so. Place sorbent clay, vermiculite, straw or sorbent pads on spilled material. Dig shallow trench, build dike or place booms around spilled material to prevent runoff or entry into waterways or storm water drains. Water reacts with magnesium oxide producing magnesium hydroxide and heat. Do not allow water to get inside containers: reaction with water will cause product to swell, generate heat, and burst its container. If contact is unavoidable, use sufficient water to safely absorb the heat that may be generated.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage when safe to do so. Place sorbent clay, vermiculite, straw or sorbent pads on spilled material. Dig shallow trench, build dike or place booms around spilled material to prevent runoff or entry into waterways or storm water drains.

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. Do not allow water to get inside containers: reaction with water will cause product to swell, generate heat, and burst its container. If contact is unavoidable, use sufficient water to safely absorb the heat that may be generated.

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 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	Odor	Odorless
Appearance	Powder	Odor threshold	No information available
Color	Brownish		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	NA	
Melting point/freezing point	NA	
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	30-60 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

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.
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 Avoid release to the environment. Prevent release into waterways or stormwater drains. See Section 6, Accidental Release Measures.

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 produce does not exhibit any characteristics of a hazardous waste. The product is suitable for landfill disposal once the free water component is evaporated or absorbed by a suitable absorbent (earth). 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: WARNING! Premier Magnesia, LLC prohibits this product from transportation or storage in tanks constructed of aluminum! See section 10.

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	Registered

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - 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 Number Not Applicable

16. OTHER INFORMATION

NFPA

Health hazards 1

Flammability 0

Instability 0

Specific Hazards

Revision Date

1- May- 2020

Revision Note

General update; add CA Proposition 65 statement

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