SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name:	**Magox Premium/Super Premium**

Other means of identification:

Product Description:	Magox Premium and Super Premium is a synthetic, high purity, technical grade magnesium. It is used where conditions demand a very fast reaction rate and mixmum surface area is of prime importance.
Synonyms:	Light Burned Magnesium Oxide, Caustic Calcined Magnesia, MgO, Magnesium Oxide

Recommended use of the chemical and restrictions on use:

Product Use/Restriction:	Applications for Magox Premium and Super Premium: acid/acceptor/scavenger, curing agent and stabilizer. Widely used in polychloroprene and other halogenated elastomers. Used to control viscosity in fiber-reinforced polyester compounds and as a buffer in thermoset resin compounds such as phenolics.

Chemical distributor, or other responsible party Name, address, and telephone number:

Distributor Name:	Western Reserve Chemical Corporation
Address:	4837 Darrow Road Stow, OH 44224 USA
General Phone Number:	330 650 2244
General Fax Number:	330 650 2255

Emergency phone number::

Emergency Phone Number:	Chemtrec 1 800 424 9300 USA
Website:	www.wrchem.com

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Class:	Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)
Hazard Statements:	* Causes mild irritation to the eyes. *Low toxicity by skin contact. Chronic overexposure by inhalation of airborne particulate may irritate upper respiratory system as well as the throat.
Precautionary Statements:	* IF ON SKIN: Wash with plenty of soap and water. * Do not breathe dust/fume/gas/mist/vapors/spray. * Use personal protective equipment as required.

Hazards not otherwise classified that have been identified during the classification process:

OSHA Class:	Product dust is classified as a nuisance particulate, not otherwise regulated as specified by ACGHI and OSHA. The excessive, long-term inhalation of mineral dusts may contribute to the development of industrial bronchitis, reduced breathing capacity, and may lead to the increased susceptibility to lung disease. This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)
Emergency Overview:	The product contains no substances which at their given concentration, are considered to be hazardous to health. Appearance: Fine Powder Physical state: Solid Odor: Odorless
Route of Exposure:	Eyes. Skin. Inhalation. Ingestion.
Eye:	Causes mild irritation to the eyes
Skin:	Low toxicity by skin contact
Inhalation:	Repeated or prolonged exposure by inhalation of airborne particulate may cause irritation to the respiratory system and throat.
Ingestion:	Ingestion is an unlikely route of exposure. If ingested in sufficient quantity, may cause gastrointestinal disturbances. Symptoms may include irritation, nausea, vomiting, and diarrhea.

Magnesium Oxide

Route of Exposure:	Inhalation, Eye Contact, Skin Contact, Ingestion
Carcinogenicity:	No information available.
Signs/Symptoms:	No information available.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Magnesium Oxide	1309-48-4	100% by weight	

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact:	Rinse thoroughly with plenty of water, also under the eyelids. (Get medical attention immediately if irritation persists.).
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:	Not an expected route of exposure. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Immediate medical attention is required.

Indication of immediate medical attention and special treatment needed:

Note to Physicians:	Treat symptomatically.
Notes :	Most important symptoms and effects, both acute and delayed: Symptoms: No information available.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media:	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. Wetted product is not a health or environmental hazard.

Special protective equipment and precautions for fire-fighters:

Protective Equipment:	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.
Notes :	Specific Hazards Arising from the Chemical: No information available.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personnel Precautions:	Ensure adequate ventilation, especially in confined areas. Use proper personal protective equipment as listed in Section 8.

Environmental precautions:

Environmental Precautions:	See Section 12 for additional ecological information.

Methods and materials for containment and cleaning up:

Methods for containment:	Prevent further leakage or spillage if safe to do so.
Methods for cleanup:	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.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling:	Use with adequate ventilation. Avoid breathing vapor and contact with eyes, skin and clothing. Use personal protective equipment as required.
Hygiene Practices:	General Hygiene Considerations: Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities:

Storage:	Conditions for safe storage, including any incompatibilities: Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Avoid generation of dust. Do not allow contact with water. Incompatible materials: Interhalogens, bromine pentafluoride, chlorine trifluoride. Contact with aluminum metal may release hydrogen gas. Incandescent reaction with phosphorus pentachloride. Water will react with magnesium oxide to form magnesium hydroxide and release heat and steam.

Specific end use(s):

Work Practices:	Safety showers and eye wash stations should be available.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Guideline ACGIH:	TWA: 10 mg/m3 inhalable fraction
Guideline OSHA:	TWA: 15 mg/m3 fume, total particulate (vacated) TWA: 10 mg/m3 fume and total particulate
Guideline NIOSH:	IDLH: 750 mg/m3 fume

Appropriate engineering controls:

Engineering Controls:	Provide sufficient ventilation, in both volume and air flow patterns to control mist/dust concentrations below allowable exposure limits. Showers. Eyewash stations.

Individual protection measures:

Eye/Face Protection:	Avoid contact with eyes. The use of eye protection is recommended.
Skin Protection Description:	The use of eye protection, gloves and long sleeve clothing is recommended.
Respiratory Protection:	Provide workers with NIOSH approved respirators in accordance with requirements of 29 CFR 1910. 134 for level of exposure incurred.
PPE Pictograms:	

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State:	Solid Appearance: Fine Powder
Color:	White
Odor:	Odorless
Odor Threshold:	No information available
Boiling Point:	No information available
Melting Point:	> 2100 deg C, > 3800 deg F
Density:	No information available Bulk density: 20-35 lb./ft3
Specific Gravity:	3.56
Solubility:	Solubility in other solvents: No information available
Vapor Density:	No information available
Vapor Pressure:	No information available
Evaporation Rate:	Not Applicable
pH:	10-11
Molecular Weight:	No information available
Coefficient of Water/Oil Distribution:	No information available
Flash Point:	No information available
Lower Flammable/Explosive Limit:	In Air: No information available
Upper Flammable/Explosive Limit:	In Air: No information available
Auto Ignition Temperature:	No information available
Explosive Properties:	No information available
Oxidizing Properties:	No information available
VOC Content:	(%): No information available

9.2. Other information:

Notes :	Flammability (solid, gas): No information available

SECTION 10 : STABILITY and REACTIVITY

Reactivity:

Reactivity:	No data available
	Possibility of Hazardous Reactions: None under normal processing.

Chemical Stability:

Chemical Stability:	Stable under recommended storage conditions.

Possibility of hazardous reactions:

Hazardous Polymerization:	Hazardous polymerization does not occur.

Conditions To Avoid:

Conditions to Avoid:	Extremes of temperature and direct sunlight.

Incompatible Materials:

Incompatible Materials:	Interhalogens, bromine pentafluoride, chlorine trifluoride. Contact with aluminum metal may release hydrogen gas. Incandescent reaction with phosphorus pentachloride. Water will react with magnesium oxide to form magnesium hydroxide and release heat and steam.

Hazardous Decomposition Products:

Special Decomposition Products:	Heat and steam.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Magnesium Oxide :

Acute Toxicity:	Product Information: Magnesium Oxide CAS# 1309-48-4
	Numerical measures of toxicity - Product Information: Unknown Acute Toxicity: 100% of the mixture consists of ingredient(s) of unknown toxicity

Magnesium Oxide :

Eye:	No data available
Skin:	No data available
Inhalation:	Inhalation of fume (not MgO dust particulate) produced upon decomposition of magnesium compounds can produce a febrile reaction and leukocytosis in humans.
Ingestion:	No data available
Sensitization:	No information available.
Mutagenicity:	Germ cell mutagenicity: No Information available.
Reproductive Toxicity:	No information available.

SECTION 12 : ECOLOGICAL INFORMATION

Magnesium Oxide :

Ecotoxicity:

Ecotoxicity:	No data available on any adverse effects of this material on the environment.
	100% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability:

Biodegradation:	Persistence and Degradability: No information available.

Bioaccumulative potential:

Bioaccumulation:	No information available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal:	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.
Contaminated Packaging:	Do not reuse container.

SECTION 14 : TRANSPORT INFORMATION

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

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

Magnesium Oxide :

CERCLA Section 302:	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
Section 311/312 Hazard Categories:	Acute health hazard - No Chronic Health Hazard - No Fire hazard -No Sudden release of pressure hazard - No Reactive Hazard - No
Section 313:	This product does not contain any substances reportable under Sections 302, 304 or 313. Sections 311 and 312 do apply. (Routine Reporting and Chemical Inventories)
Clean Water Act RQ:	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)
State Regulations:	NJ, MA, PA - RTK
California PROP 65:	This product does not contain chemicals known to the State of California to cause cancer, birth defects or other reproductive toxins

SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard:	0
HMIS Fire Hazard:	0
HMIS Reactivity:	0
HMIS Personal Protection:	X

Health Hazard	**0**
Fire Hazard	**0**
Reactivity	**0**
Personal Protection	**X**

SDS Revision Date:	August 24, 2015
Notes :	The information provided in this Material 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.