

Material Safety Data Sheet**Section I. Chemical Product and Company Identification**

Chemical Name: Magnesium Peroxide
Synonym: Magnesium Dioxide
CAS Number: 1335-26-8
Chemical Formula: MgO₂

Section II. Composition and Information on Ingredients

Constituent	CAS#	%	OSHA	ACGIH
Magnesium Peroxide	1335-26-8	50-60%	not established	not established
Magnesium Oxide	1317-35-7	5-40%	not established	not established
Magnesium Carbonate	598-62-9	5-40%	not established	not established

Section III Hazards Identification:**Acute Health Effects:**

Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

Chronic Health Effects:

This product has no known chronic effects. Repeated or prolonged exposure to this compound is not known to aggravate medical conditions.

This product is not listed by NTP, IARC or regulated as a Carcinogen by OSHA.

Since no Exposure limits have been established for Magnesium Peroxide, Magnesium Oxide, & Magnesium Carbonate by OSHA & ACGIH. It is recommended that this product be treated as a nuisance dust 15 mg/m³.

Section IV. First Aid Measures

First Aid For Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

First Aid For Skin: In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.

First Aid For Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

First Aid For Ingestion: If swallowed, call a physician immediately.

Section V. Fire and Explosion Data

Flammability: Non-Flammable

Flash Points: Not Applicable

Auto-Ignition: Not Applicable

Flammable Limits: Not Applicable

Extinguishing Media: Water, water spray, carbon dioxide, dry chemical powder or appropriate foam.

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Oxidizer.

Fire/Explosion Hazards: May accelerate combustion. Contact with other material may cause fire. Emits toxic fumes under fire conditions

Section VI. Accidental Release Measures

Spill Or Leak Procedures: Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water

Section VII. Handling and Storage

Storage Temperatures: Store at ambient temperature

Shelf Life: Unlimited in tightly closed container.

Special Sensitivity: None

Handling/Storage Precautions: Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials (see Section X). Reseal containers immediately after use. Store away from food and beverages.

Section VIII. Exposure Controls/Personal Protection

Eye Protection: Safety glasses or goggles.

Skin Protection: PVC gloves with impervious boots, apron or coveralls. Employees should wash their hands and face before eating, drinking or using tobacco products.

Respirator: Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.

Ventilation: Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.

Additional Protective Measures: Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of hazardous chemicals

Section IX. Physical and Chemical Properties

Physical Form: Powder

Color: White to Cream

Odor: Odorless

Molecular Weight: 56.30

Boiling Point: Decomposes

Melting/Freezing Point: Decomposes

Solubility In Water: Insoluble

Specific Gravity: Not Established

Section X. Stability And Reactivity

Stability: Stable unless heated above 150°C. Reacts with water to release oxygen. Reaction by-product is magnesium hydroxide.

Hazardous Polymerization: Will Not occur

Incompatibilities: Organic materials, Finely powdered metals & acids. Sensitive to moisture

Instable Conditions: Excessive temperatures (see Incompatibilities).

Decomposition Temperature: Not Established

Decomposition products: Oxides of Magnesium

Section XI. Toxicological Information

RTECS Number: Not Established

Routes of Exposure: Eye contact. Ingestion. Inhalation. Skin contact.

Toxicity Data: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Chronic Toxic Effects: This product has no known chronic effects. Repeated or prolonged exposure to this compound is not known to aggravate medical conditions.

Acute Toxic Effects: May be harmful by inhalation, ingestion, or skin absorption. May cause eye irritation. May cause skin irritation. Material may be irritating to mucous membranes and upper respiratory tract.

Section XII. Ecological Information

Ecotoxicity: Not available at this time.

Section XIII. Disposal Considerations

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental regulations.

Section XIV. Transportation Information

Proper Shipping Name: Magnesium Peroxide

UN Number: 1476

Class: 5.1

P.G.: II

Label Code: 5.1

Section XV. Regulatory Information**OSHA Status:**

This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Chemical Inventory:

This compound is on the EPA Toxic Substance Control Act (TSCA) inventory List

California Proposition 65:

To the best of our knowledge, this product contains no levels of listed substances, which the state of California has found to cause cancer, birth defects or other reproductive effects.

SARA 313 Title III:

Section 302 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: None

Section 313 Toxic Chemicals: None

Section XVI. Other Information

Date: April 24, 2007

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