



WEST BENGAL CHEMICAL INDUSTRIES LIMITED

145/1, Jessore Road, Lake Town,

Kolkata – 700 089, India.

Phone: +9133 4025 1700 Fax: +9133 2574 7410

Email: webcil@wbcil.com

Website: www.wbcil.com

Section 1 - Chemical Product and Company Identification

MSDS Name: Liposomal Magnesium

Product Code: MAGMR20

Company Identification:

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Section 2 - Composition / Information on Ingredients

Formula: MgO

Molecular Weight: 40.305 g/mol

Ingredient Name	CAS Number	% wt
Magnesium Oxide	1309-48-4	100%

Section 3 - Hazards Identification

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4 - First Aid Measures

Eye Contact:	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
Skin Contact:	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
Ingestion:	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.



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Section 5 - Fire-Fighting Measures

Flammability of the Product	: May be combustible at high temperature.
Auto-Ignition Temperature:	: Not available.
Flash Points	: Not available.
Flammable Limits	: These products are carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ...). Some metallic oxides.
Products of Combustion	: Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.
Fire Hazards in Presence of Various Substances	: Slightly explosive in presence of open flames and sparks. Non-explosive in presence of shocks.
Fire Fighting Media and Instructions	: SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards	: As with most organic solids, fire is possible at elevated temperatures
Special Remarks on Explosion Hazards	: Fine dust dispersed in air in sufficient concentrations, and in the presences of an ignition source is a potential dust explosion hazard.

Section 6 - Accidental Release Measures

Personal Protection:	Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use. Keep unprotected persons away.
Environmental Protection:	Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling	: Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away.
Storage	: Store in a tightly closed container in a dry, well ventilated place.



Section 8 - Exposure Controls / Personal Protection

Eyes	:	Wear appropriate protective eyeglass or chemical safety goggles. Make sure that there is an eyewash facility in your vicinity.
Skin	:	Wear impervious gloves and protective clothing.
Respiratory	:	Use a NIOSH approved respirator when exposure limits are exceeded or if irritation or other symptoms are experienced.
Exposure Limits	:	Consult local authorities for acceptable exposure limits.

Section 9 - Physical and Chemical Properties

Appearance Form	:	Powder
Color	:	White
Odour	:	Characteristic
pH of 1 % w/v suspension	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Sublimation Temperature	:	No data available
Density:	:	No data available
Vapour pressure	:	No data available
Vapour density	:	No data available
Refractive Index	:	No data available
Water solubility	:	Partially soluble in water.
Decomposition temperature	:	No data available
Viscosity	:	No data available
Other safety information		
No data available		

Section 10 - Stability and Reactivity

Stability	:	Stable under normal temperatures and pressures.
Incompatibility	:	Strong oxidizing agents, Strong reducing agents.
Conditions to Avoid	:	Heat, Flame, Sparks, other ignition sources
Hazardous Decomposition Product	:	Magnesium oxides

Section 11 - Toxicological Information

RTECS Reference	:	Not Available
Toxicity Data	:	Not Available
Target Organs	:	Not Available
Skin corrosion/irritation	:	Not Available

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Serious eye damage/irritation	: Not Available
Carcinogenicity:	: Not Available
Acute Toxicity:	Oral: Low toxicity ($LD_{50} > 5,000$ mg/kg). High doses may cause gastrointestinal upset. Inhalation: Irritates the respiratory tract. High dust concentrations may lead to temporary pneumonitis. Dermal: Non-toxic, but prolonged contact may cause mild irritation due to abrasive nature. Irritation.
Skin:	May cause mild irritation upon prolonged contact.
Eyes:	Dust or particles may cause mechanical irritation, resulting in redness or discomfort.
Respiratory:	Dust may irritate the throat and lungs. Chronic Effects: Prolonged inhalation of dust may irritate the lungs. Excessive ingestion may lead to hypermagnesemia.
Carcinogenicity:	Not classified as a carcinogen by IARC, NTP, OSHA, or ECHA.
Reproductive Toxicity:	No effects on fertility or fetal development under normal use.
STOT (Specific Target Organ Toxicity):	Repeated exposure to high dust concentrations may affect respiratory organs.

Section 12 - Ecological Information

Toxicity	: Aquatic Toxicity: Low toxicity. LC_{50} (fish, 96h): > 100 mg/L EC_{50} (Daphnia, 48h): > 100 mg/L EC_{50} (Algae, 72h): > 100 mg/L May raise pH in water, potentially affecting aquatic organisms at high concentrations.
Persistence and degradability	: Non-biodegradable, stable in the environment. Dissociates to form magnesium hydroxide in water.
Bioaccumulative potential	: No bioaccumulation expected due to low solubility.



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Mobility in soil	: Low mobility, remains near the point of release.
PBT and vPvB assessment	: Does not meet PBT or vPvB criteria.
Other adverse effects:	: High concentrations can increase water pH, potentially harming aquatic life.

Section 13 - Disposal Considerations

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

Section 14 - Transport Information

D O T Classification	: Not a DOT controlled material
Air transport Goods	: Nonhazardous/non dangerous as per IATA DGR.
Special Provision for Transport	: Not applicable
IATA Specification	Non-dangerous, non-hazardous

DOT (Pictograms)

AS PER IATA REGULATION SAFE FOR CARRAGE, NON-HAZARDOUS AND NON-RESTRICTED.

NO SPECIAL LABELLING OR TRANSPORT MEASURE HAVE BEEN IDENTIFIED.

THIS IS NOT REGULATED AS PER IATA REGULATION



Section 15 - Regulatory Information

United States:

Toxic Substance Control Act (TSCA): Not listed

Superfund Amendments and Reauthorization Act (SARA 302): Not listed

Superfund Amendments and Reauthorization Act (SARA 311/312): Not listed

Superfund Amendments and Reauthorization Act (SARA 313): Not listed

European Union:

European Inventory of Existing Chemical Substances (EINECS): Not Available

Hazard Codes: Not Available

Risk Statements: Not Available

Safety Statements: Not Available

Canada :



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Canadian Domestic Substances List (DSL): Not listed

Canadian Non-Domestic Substances List (NDSL): Not listed

Section 16 - Other Information

Disclaimer: This material safety data sheet is provided as an information resource only.

WEST BENGAL CHEMICAL INDUSTRIES LIMITED believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.

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