



WEST BENGAL CHEMICAL INDUSTRIES LIMITED
145/1, Jessore Road, Lake Town,
Kolkata – 700 089, India.
Phone: +9133 4025 1700 Fax: +9133 2574 7410
Email: wbcil@wbcil.com Website: www.wbcil.com

Section 1 - Chemical Product and Company Identification

MSDS Name: Magnesium Citrate USP

Product Code : MGCUS14

Company Identification:

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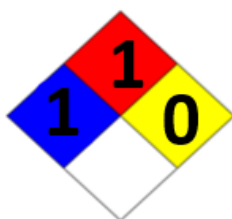
Email: wbcil@wbcil.com

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt
Magnesium Citrate USP	3344-18-1	100

Section 3 - Hazards Identification

INHALATION	:	May cause respiratory irritation
INGESTION	:	May cause gastrointestinal irritation
SKIN CONTACT	:	May cause skin irritation
EYE CONTACT	:	May cause eye irritation
CHRONIC EXPOSURE	:	No known significant effects or critical hazards
Hazard statements	:	H315, H319, H335
Precautionary statements	:	P261-P264-P271-P280-P302+P352-P305+P351+P338



NFPA SCALE (0-4)



Health	1
Flammability	1
Physical Hazard	0
Personal protection	E

HMIS RATINGS (0-4)

Section 4 - First Aid Measures

INHALATION	:	Move exposed person to fresh air. If not breathing, seek immediate medical attention. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen
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	:	by trained personnel and seek medical attention.
INGESTION	:	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention.
SKIN CONTACT	:	Remove contaminated clothing and shoes and immediately flush skin with plenty of water for at least 15 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse. If irritation persists, seek medical attention.
EYE CONTACT	:	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

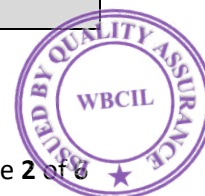
Section 5 - Fire-Fighting Measures

HAZARDOUS COMBUSTION PRODUCTS	:	These products are carbon oxides (CO, CO ₂). Some metallic oxides.
FLAMMABILITY OF THE PRODUCT	:	May be combustible at high temperature.
EXPLOSION HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES	:	Slightly explosive in presence of open flames and sparks. Non-explosive in presence of shocks.
FIRE HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES	:	Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.
SPECIAL INFORMATION	:	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

SMALL SPILL	:	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
LARGE SPILL	:	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7 - Handling and Storage





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PRECAUTIONS	:	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe dust. Keep away from incompatibles such as oxidizing agents.
STORAGE	:	Keep container tightly closed. Keep container in a cool, well-ventilated area
RECOMMENDED STORAGE TEMPERATURE	:	15°C - 25°C

Section 8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS	:	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne Contaminants below the exposure limit.
PERSONAL PROTECTION	:	Safety glasses, Lab Coat, Dust respirator, Be sure to use an approved / certified respirator or equivalent, Gloves.
PERSONAL PROTECTION IN CASE OF A LARGE SPILL	:	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
EXPOSURE LIMITS	:	Not available.

Section 9 - Physical and Chemical Properties

Appearance Form		
Description	:	White free flowing powder
Odour	:	Odourless
Solubility	:	Partially soluble in water.
Molecular Weight	:	451.11 g/mol
pH (value)	:	3,5 – 4 (in aqueous solution: 50 g/l, 20 °C)
Water solubility	:	~250 g/l at 100 °C
Melting point	:	184 °C
9.2 Other safety information		
No data available		





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Section 10 - Stability and Reactivity

Stability	:	The product is stable at normal conditions.
Instability Temperature	:	Not available
Conditions of Instability	:	Excess heat, dust generation, incompatible materials.
Incompatibility with various substances	:	Reactive with oxidizing agents.
Corrosivity	:	Non corrosive in presence of glass.
Special remarks on Reactivity	:	Not available
Special remarks on Corrosivity	:	Not available
Polymerization	:	Will not occur.

Section 11 - Toxicological Information

Routes of Entry	:	Inhalation, Ingestion
Toxicity to Animals	:	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	:	Not Available
Other Toxic Effects on Humans	:	Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.
Special Remarks on Toxicity to Animals	:	Not Available
Special Remarks on Chronic Effects on Humans	:	Not Available
Special Remarks on other Toxic Effects on Humans	:	Acute Potential Health Effects: Skin: Contact may cause irritation or rash, particularly with moist skin. Eyes: Dust may cause irritation (abrasion) by mechanical action and cause redness, and tearing. Inhalation: Inhalation high concentrations of dust may cause nasal or lung irritation. Ingestion: Ingestion can produce gastrointestinal tract irritation. Can cause diarrhea.





Section 12 - Ecological Information

ECOTOXICITY	:	Not Available
BOD 5 and COD	:	Not Available
PRODUCTS of BIODEGRADATION	:	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
TOXICITY OF THE PRODUCTS OF BIODEGRADATION	:	The Product itself and its products of degradation are not toxic.
SPECIAL REMARKS ON THE PRODUCTS OF BIODEGRADATION.	:	Not Available

Section 13 - Disposal Considerations

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14 - Transport Information

DOT 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

FEDERAL AND STATE REGULATION	:	No information available.
OTHER REGULATIONS	:	EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.
WHMIS (Canada)	:	Not controlled under WHMIS (Canada).
DSCL (EEC)	:	This product is not classified according to the EU regulations.





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		Not applicable.
HMIS (U.S.A.)	:	Health Hazard: 1 Fire Hazard: 1 Reactivity: 0 Personal Protection: E
National Fire Protection Association (U.S.A.)	:	Health: 1 Flammability: 1 Reactivity: 0

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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Revision No.: 03

