

#### 1. IDENTIFICATION

Product Name Magnesium Carbonate

Other Names Basic magnesium carbonate; Magnesium carbonate hydroxide, basic

**Uses** Food additive, colour retention agent, inks, glass, stock feed.

Chemical Family No Data Available

Chemical Formula CH2O3.H2MgO2.xH2O.Mg

Chemical Name Carbonic acid, magnesium salt (1:1), mixture with magnesium hydroxide (Mg(OH)2), hydrate

Product Description No Data Available

## **Contact Details of the Supplier of this Safety Data Sheet**

Organisation	Location	Telephone
Redox Ltd	2 Swettenham Road	+61-2-97333000
	Minto NSW 2566	

Australia

Redox Ltd 11 Mayo Road +64-9-2506222

Wiri Auckland 2104 New Zealand

Redox Inc. 3960 Paramount Boulevard +1-424-675-3200

Suite 107

Lakewood CA 90712

USA

Redox Chemicals Sdn Bhd Level 2, No. 8, Jalan Sapir 33/7 +60-3-5614-2111

Seksyen 33, Shah Alam Premier Industrial Park

40400 Shah Alam Sengalor, Malaysia

## **Emergency Contact Details**

For emergencies only; DO NOT contact these companies for general product advice.

Organisation	Location	Telephone
Poisons Information Centre	Westmead NSW	1800-251525 131126
Chemcall	Australia	1800-127406 +64-4-9179888
Chemcall	Malaysia	+64-4-9179888
Chemcall	New Zealand	0800-243622 +64-4-9179888
National Poisons Centre	New Zealand	0800-764766
CHEMTREC	USA & Canada	1-800-424-9300 CN723420 +1-703-527-3887

## 2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) Not Scheduled



## **Globally Harmonised System**

**Hazard Classification** NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of

Chemicals (GHS)

Signal Word None

## **National Transport Commission (Australia)**

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

**Dangerous Goods Classification** NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Basic magnesium carbonate	CH2O3.H2MgO2.xH2O.Mg	39409-82-0	<=100 %

#### 4. FIRST AID MEASURES

## Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth, then give a glass of water. Do not induce vomiting unless directed to do so by medical

personnel. Get medical advice/attention if you feel unwell. Never give anything by mouth to an unconscious person.

IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting Eye

the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye

irritation persists, get medical advice/attention.

\*In all cases of eye contamination it is a sensible precaution to seek medical advice.

Skin IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation

occurs, get medical advice/attention.

Inhaled IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Remove contaminated

clothing and loosen remaining clothing. Keep at rest until fully recovered. If respiratory symptoms persist, get medical

advice/attention. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

**Advice to Doctor** Treat symptomatically.

Medical Conditions Aggravated by No information available.

**Exposure** 

#### 5. FIRE FIGHTING MEASURES

**General Measures** If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.

**Flammability Conditions** Non-combustible material.

**Extinguishing Media** If material is involved in a fire, use extinguishing media appropriate to surrounding fire conditions.

Fire and Explosion Hazard Decomposes on heating, emitting toxic fumes.

**Hazardous Products of** 

Combustion

Fire may produce irritating and/or toxic fumes, including oxides of Carbon and oxides of Magnesium.

**Special Fire Fighting Instructions** Contain runoff from fire control or dilution water - Runoff may cause pollution.

Personal Protective Equipment Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only

provide limited protection.

Flash Point
No Data Available
Lower Explosion Limit
No Data Available
Upper Explosion Limit
No Data Available
Auto Ignition Temperature
No Data Available
Hazchem Code
No Data Available

## **6. ACCIDENTAL RELEASE MEASURES**

General Response Procedure Ensure adequate ventilation. Do not touch or walk through spilled material. Avoid dust formation. Avoid breathing dust

and contact with eyes, skin and clothing.

Clean Up Procedures Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers for disposal (see

SECTION 13).

Containment Stop leak if you can do it without risk. Prevent dust cloud. Prevent entry into waterways, sewers, basements or confined

areas.

**Decontamination** No information available.

**Environmental Precautionary** 

Measures

Prevent entry into drains and waterways.

**Evacuation Criteria** Spill or leak area should be isolated immediately. Keep unauthorised personnel away.

#### 7. HANDLING AND STORAGE

Handling Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure

adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid formation of dusts and aerosols. Avoid breathing dust and contact with eyes, skin and clothing. Use personal protective equipment as

required (see SECTION 8).

Storage Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep containers closed when not in use - check

regularly for spills. Keep away from heat and sources of ignition - No smoking. Keep away from incompatible materials

(see SECTION 10).

**Container** Keep in the original container.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General No specific exposure standards are available for this product. For dusts from solid substances without specific

occupational exposure standards:

- Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m3 (measured as inhalable dust).
 - New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m3 (total); TWA = 3 mg/m3 (respirable).

- OSHA PEL (Particulates not otherwise regulated): TWA = 15 mg/m3 (total); TWA = 5 mg/m3 (respirable).

**Exposure Limits** No Data Available

**Biological Limits** No information available.

**Engineering Measures** A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust

ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing

dispersion of it into the general work area.

Personal Protection Equipment - Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Recommended: Dust

mask/particulate respirator (refer to AS/NZS 1715 & 1716).

- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Chemical safety goggles.
- Hand protection: Handle with gloves. Recommended: Natural rubber, Neoprene, PVC or equivalent.
- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Lab coat, apron.

al

No information available.

**Work Hygienic Practices** 

**Special Hazards Precaustions** 

Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of workday. Take off contaminated clothing and wash it before reuse.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid
Appearance Powder

**Odour** No information available.

Colour White

pH No Data Available

Vapour Pressure No Data Available

Relative Vapour Density No Data Available

Boiling Point No Data Available

Melting Point No Data Available

Freezing Point No Data Available

**Solubility** Slightly soluble in water - Insoluble in alcohol

Specific Gravity 3

Flash Point

Auto Ignition Temp

No Data Available

Evaporation Rate

No Data Available

Bulk Density

No Data Available

Corrosion Rate

No Data Available

**Decomposition Temperature** 250 °C

Density No Data Available **Specific Heat** No Data Available **Molecular Weight** No Data Available **Net Propellant Weight** No Data Available **Octanol Water Coefficient** No Data Available **Particle Size** No Data Available **Partition Coefficient** No Data Available No Data Available **Saturated Vapour Concentration Vapour Temperature** No Data Available Viscosity No Data Available **Volatile Percent** No Data Available **VOC Volume** No Data Available

Additional Characteristics No information available.

Potential for Dust Explosion No information available.

Fast or Intensely Burning No information available.

Flame Propagation or Burning

Rate of Solid Materials

Characteristics

No information available.

Non-Flammables That Could Contribute Unusual Hazards to a

No information available.

Properties T

Fire

Properties That May Initiate or Contribute to Fire Intensity

Non-combustible material.

No information available.

Reactions That Release Gases or

**Vapours** 

Decomposes on heating, emitting toxic fumes, including oxides of Carbon and oxides of Magnesium.

Release of Invisible Flammable

Vapours and Gases

## 10. STABILITY AND REACTIVITY

**General Information** No information available.

**Chemical Stability** Stable under recommended conditions.

**Conditions to Avoid** Avoid qenerating dust. Keep away from heat and sources of ignition.

Materials to Avoid Incompatible/reactive with acids.

**Hazardous Decomposition** 

**Products** 

Decomposes on heating, emitting toxic fumes, including oxides of Carbon and oxides of Magnesium.

\*Will react with acids, liberating Carbon dioxide gas.

Hazardous Polymerisation Hazardous polymerisation will not occur.

#### 11. TOXICOLOGICAL INFORMATION

**General Information** Information on possible routes of exposure:

- Ingestion: Magnesium carbonate is a weak antacid and a mild laxative. May cause gastrointestinal discomfort. Excessive use of Magnesium containing antacids has cause hypermagnesia, with symptoms including flushing of the skin, thirst and drowsiness.

- Eye contact: May cause eye irritation.

- Skin contact: Contact with skin may result in irritation.

- Inhalation: Inhalation of dust may result in respiratory irritation.

Chronic effects: No prolonged or repeated exposure information available. Short-term exposure by all routes is

considered to be non-harmful.

Carcinogen Category None

## 12. ECOLOGICAL INFORMATION

EcotoxicityNo information available.Persistence/DegradabilityNo information available.MobilityNo information available.

**Environmental Fate** Prevent entry into drains and waterways.

Bioaccumulation Potential No information available.

Environmental Impact No Data Available

#### 13. DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with local/regional/national regulations.

#### **General Information**

Special Precautions for Land Fill No information available.

## 14. TRANSPORT INFORMATION

## Land Transport (Australia)

ADG Code

Proper Shipping Name Magnesium Carbonate
Class No Data Available
Subsidiary Risk(s) No Data Available
No Data Available
UN Number No Data Available

Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

## Land Transport (Malaysia)

ADR Code

Proper Shipping NameMagnesium CarbonateClassNo Data AvailableSubsidiary Risk(s)No Data AvailableUN NumberNo Data Available

UN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

**Comments** NON-DANGEROUS GOODS: Not regulated for LAND transport.

## Land Transport (New Zealand)

NZS5433

Proper Shipping Name Magnesium Carbonate
Class No Data Available
Subsidiary Risk(s) No Data Available
No Data Available
UN Number No Data Available

Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

**Comments** NON-DANGEROUS GOODS: Not regulated for LAND transport.

## Land Transport (United States of America)

**US DOT** 

Proper Shipping Name Magnesium Carbonate

Class No Data Available
Subsidiary Risk(s) No Data Available

No Data Available

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

**Sea Transport** 

**IMDG** Code

**Proper Shipping Name** Magnesium Carbonate Class No Data Available No Data Available Subsidiary Risk(s) **UN Number** No Data Available Hazchem No Data Available No Data Available **Pack Group Special Provision** No Data Available **EMS** No Data Available

Marine Pollutant No

Comments NON-DANGEROUS GOODS: Not regulated for SEA transport.

**Air Transport** 

IATA DGR

Proper Shipping NameMagnesium CarbonateClassNo Data AvailableSubsidiary Risk(s)No Data AvailableUN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

**Comments** NON-DANGEROUS GOODS: Not regulated for AIR transport.

## **National Transport Commission (Australia)**

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

## 15. REGULATORY INFORMATION

General Information No Data Available
Poisons Schedule (Aust) Not Scheduled

## **Environmental Protection Authority (New Zealand)**

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code Not Hazardous

## **National/Regional Inventories**

Australia (AIIC) Listed

Canada (DSL) Not Determined

Canada (NDSL) Not Determined

China (IECSC) Not Determined

Europe (EINECS) Not Determined

Europe (REACh) Not Determined

Japan (ENCS/METI) Not Determined

Korea (KECI) Not Determined

Malaysia (EHS Register) Not Determined

New Zealand (NZIoC) Listed

Philippines (PICCS) Not Determined

Switzerland (Giftliste 1) Not Determined

**Switzerland (Inventory of Notified** 

Substances)

Not Determined

Taiwan (NCSR) Not Determined

USA (TSCA) Not Determined

## **16. OTHER INFORMATION**

Related Product Codes MACARB1000, MACARB1001, MACARB1002, MACARB1003, MACARB1004, MACARB1005, MACARB1006, MACARB1007,

MACARB1100, MACARB1200, MACARB1300, MACARB1500, MACARB1600, MACARB2000, MACARB2001, MACARB2002,

MACARB3000, MACARB3500, MACARB4000, MACARB4001, MACARB4002, MACARB4500, MACARB5000, MACARB5200, MACARB5400, MACARB5500, MACARB5700, MACARB5800, MACARB5400, MACARB5700, MACARB

MACARB7500, MACARB7600, MACARB7800, MACARB7801, MACARB7805, MACARB7806, MACARB7808, MACARB8000,

MACARB8800, MACARB9000, MACARF1025, MACARF1800, MACARF3000

Revision 6

Revision Date15 Nov 2021Reason for IssueUpdated SDSKey/Legend< Less Than</th>

> Greater Than

**AICS** Australian Inventory of Chemical Substances

atm Atmosphere

**CAS** Chemical Abstracts Service (Registry Number)

cm² Square CentimetresCO2 Carbon Dioxide

**COD** Chemical Oxygen Demand **deg C (°C)** Degrees Celcius

**EPA (New Zealand)** Environmental Protection Authority of New Zealand

deg F (°F) Degrees Farenheit

**g** Grams

g/cm3 Grams per Cubic Centimetre

g/I Grams per Litre

**HSNO** Hazardous Substance and New Organism

**IDLH** Immediately Dangerous to Life and Health

immiscible Liquids are insoluable in each other.

inHg Inch of Mercury

inH20 Inch of Water

K Kelvin

kg Kilogram

kg/m3 Kilograms per Cubic Metre

**Ib** Pound

**LC50** LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

**LD50** LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

Itr or L Litre

m<sup>3</sup> Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours

mg/kg Milligrams per Kilogram

mg/m³ Milligrams per Cubic Metre

Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre

mmH20 Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

**NIOSH** National Institute for Occupational Safety and Health

NOHSC National Occupational Heath and Safety Commission

**OECD** Organisation for Economic Co-operation and Development

Oz Ounce

**PEL** Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion

ppm Parts per Million

ppm/2h Parts per Million per 2 Hours

ppm/6h Parts per Million per 6 Hours

psi Pounds per Square Inch

**R** Rankine

**RCP** Reciprocal Calculation Procedure

**STEL** Short Term Exposure Limit

TLV Threshold Limit Value

tne Tonne

**TWA** Time Weighted Average

ug/24H Micrograms per 24 Hours

**UN** United Nations

wt Weight