


Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

Product Name:	Calcined Magnesite
Other Name[s]:	Magnesium Oxide
Synonyms:	MgO, Akro-mag, "Cal Mag 85", "Cal Mag 90", "Magox OP", Animag, Marmag, Oxymag, Periclase, Granmag, Magcal, "calcined brucite magnesia", "calcined magnesite", "sea-water magnesia", magnesia, dead, burnt, dead-burned, "Magnesite burnt dead burned refractory", "Lite magnesia"
Proper Shipping Name:	Magnesium Oxide
Chemical Formula:	Not available
Product Code:	R-C1110
CAS Number:	1309-48-4

PRODUCT USE

Recommended Use:	Component of refractory crucibles, fire bricks, insulation, rubber compounds, plastics, petroleum products, food and feed additives, pulp and paper manufacture, magnesia cements and boiler scale compounds. Manufacture of magnesium metal, alloys and magnesium salts. Laboratory reagent. Reflector in optical instruments; white colour standard
-------------------------	---

SUPPLIER DETAILS

Company Name:	Metabolik
Address:	50 Central Park Drive, Henderson, Auckland 0610, New Zealand
Telephone:	0064 9 834 3783
Email:	info@imageholdings.co.nz
Website:	www.imageholdings.co.nz

EMERGENCY TELEPHONE NUMBERS

National Poisons Information Centre:	0800 POISON (0800 764 766)
Emergency Telephone Number:	0800 764 766
Other Emergency Numbers:	0064 21 934 058
Transport Emergency:	111: Tell operator what service is needed: Fire, Ambulance, Police.
Please ensure that the limitations of this Safety Data Sheet are referred to as set out in Section 16: Other Information at the end of this document.	

Section 2: HAZARD IDENTIFICATION
CLASSIFICATION OF SUBSTANCE OR COMPOSITION

Transport Classification:	Not Classified as a Dangerous Goods according to NZS 5433:2012 Transport of Dangerous Goods on Land
Hazard Classifications:	Not Classified as hazardous according to criteria in the Hazardous Substances & New Organisms Act 2015
Approval Number:	HSR006644
Classification Determined by using GHS/HSNO Criteria:	Not Hazardous

LABEL REQUIREMENTS

Signal Word:	Not applicable
Pictogram:	Not applicable

HAZARD STATEMENT[s]
Not applicable
PRECAUTIONARY STATEMENT[s]:

Prevention:	P260: Do not breathe dust/fumes/gas/mist/vapours/spray.
Response:	P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
Storage:	P403: Store in a well-ventilated place. P404: Store in a closed container.

Product Name: **Calcined Magnesite**
 Reference: IHL-SDS173

Issue Date: 11/05/2020
 Review Date: 11/05/2025
 Version:



Disposal: P501: Dispose of contents/container in accordance with local/regional/national/international regulation.

Other Hazards: None known

Section 3: COMPOSITION INFORMATION

COMPONENT	CAS No.	PROPORTION	HAZARD CODES
Magnesium Oxide	1309-48-4	>80	No
Balance of ingredients are non-hazardous or hazardous in less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitisers)		Balance	-

Section 4: FIRST AID MEASURES

FIRST AID MEASURES

Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected poisoning.

Inhalation:

If Inhalation of product occurs:

- Remove patient from area of exposure – avoid becoming a casualty.
- Remove contaminated clothing and loosen remaining clothing
- Allow patient to assume comfortable position and keep warm and rested.
- Provide emergency airway support if required
- If breathing is shallow or has stopped ensure airway is clear and apply resuscitation.
- **Urgently Seek medical help**

Ingestion:

If ingestion occurs:

- Clean mouth with Water and then drink plenty of water, seek medical attention.
- For advice, contact the National Poisons Centre on 0800 POISON (0800 764 766) or Doctor
- Never give anything by mouth to an unconscious person.
- **Seek medical assistance immediately**

Skin:

If skin contact occurs:

- Remove all contaminated clothing immediately
- Wash affected area thoroughly with water
- **Seek immediate medical assistance if irritation occurs.**

Eye:

If this product comes in contact with eyes:

- Immediately hold eyelids open and flush the eye continuously with running water
- Continue flushing until advised to stop by Poisons Information Centre or a doctor, or for at least 15 minutes to prevent permanent injury
- Remove contact lenses if present and easy to do.
- **Seek medical assistance**

Advice to Doctor:

Treat symptomatically. Refer to National Poisons & Hazardous Chemicals Information Centre 0800 764 766

Section 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

If material is involved in fire use:

- There is not restriction on type of media which may be used
- Use extinguishing media suitable for surrounding fire based on surrounding materials
- Use Carbon dioxide or suitable dry chemical extinguisher
- Water Fog or Water Spray
- Do not use water jets

SPECIFIC HAZARDS

Hazards of Combustion:

May emit toxic fumes on decomposition

ADVICE TO FIREFIGHTERS

Fire Fighting

- Alert Fire Brigade and tell them location and nature of hazard
- Wear self-contained breathing apparatus plus suitable protective clothing
- Prevent, spillage from entering drains and water courses
- Use firefighting procedures suitable for surrounding area

Protective Equipment:

- Fire fighters should wear a positive pressure self-contained breathing apparatus [SCBA]

Product Name: **Calcined Magnesite**
 Reference: IHL-SDS173

Issue Date: 11/05/2020
 Review Date: 11/05/2025
 Version:



Fire/Explosion Hazard:

- protective firefighting clothing [includes firefighting helmet, coat, trousers, boots and gloves]
- chemical splash suit

Hazchem Code: Decomposition may produce toxic fumes
Not regulated

Section 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS Wear suitable protective clothing, **See section 8**

ENVIRONMENTAL PRECAUTIONS Do not allow container or product to enter drains, sewers, streams or ponds. If contamination occurs advise local emergency services **See Section 12**

SPILLS & CONTAINMENT

Minor Spill

- Contain Spill
- Allow only trained personnel wearing appropriate protective equipment to be involved in spill response.
- Avoid accidents, clean up immediately.
- Increase ventilation.
- Avoid walking through spilled product.
- Isolate the danger area.
- Use clean, non-sparking tools and equipment.
- Mechanically collect as much of the spill as possible
- Shut off all possible sources of ignition

Major Spill

- **Low Hazard**
- Contain Spill
- CAUTION: Advise personnel in area / surrounding area
- Contact Emergency Services [111], inform them of location and nature of hazard
- Allow only trained personnel wearing appropriate protective equipment to be involved in spill response.

DISPOSAL

- Reuse if possible
- Spill on areas other than pavement, dirt or sand may be handled by removing the affected soils and placing into approved containers
- Transfer to suitable, labelled, corrosion-resistant containers and dispose of promptly as hazardous waste.
- Dispose of in accordance with local and national regulations

Section 7: HANDLING AND STORAGE

HANDLING PRECAUTIONS

Safe Handling

- Ensure an eye bath and safety shower are available and ready to use.
- Avoid Personal contact, including inhalation
- Wear protective clothing when risk of exposure occurs
- Use in well ventilated area
- Keep out of reach of children

Certified Handler: Not applicable
Tracking: Not applicable
Record Keeping: Not applicable

STORAGE PRECAUTIONS

Suitable Container:

- **Store in manufacturers original packaging**

Safe Storage:

- Store in original containers
- Keep containers closed when not in use
- Store in a cool, dry, well ventilated place
- Keep out of direct sunlight.
- Store away from sources of heat or ignition.
- Check regularly for spills.
- Store away from incompatible materials, foodstuff and containers

Storage Incompatibility:

- Moisture

Other Information:

- Dispose of in accordance with regulatory authority, local and national guidelines
- Always read label before use.



Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application.

CONTROL PARAMETERS

Ingredient Data:

Source	Ingredient	TWA	STEL	Notes
NZ Workplace Exposure Standards [WES]	Magnesium Oxide	10 mg/m ³		

EXPOSURE CONTROLS

Engineering Controls:

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection

Protective Equipment:



Eye & Face Protection:

- Chemical goggles
- Restrict use of contact lenses

Skin Protection:

- Wear chemical resistant gloves
- Always wash hands before eating, drinking or using facilities
- Protective foot wear

Respiratory Protection:

- Particulate. [AS/NZ 1716, EN 143:2000 & 149:001, ANSI Z88 or national equivalent]

Body Protection:

- Overalls
- Barrier cream

Other Protection:

- Eyewash Unit

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White powder		
Physical State:	Solid	Vapour Density [Air=1]:	n/a
Odour:	Odourless	Relative Density [Water=1]:	n/a
Odour Threshold:	n/a	Auto Ignition Temp [°C]:	n/a
pH [1% Solution]:	10.3	Decomposition Temp:	n/a
Melting Point / Freezing Point:	2852 °C	Viscosity [cSt]:	n/a
Initial Boiling Point / Range:	3600°C	Molecular Weight [g/mol]:	40.3
Flash Point [°C]:	Non- Flammable	Taste:	n/a
Evaporation Rate:	n/a	Explosive Properties:	n/a
Flammability:	n/a	Oxidising Properties:	n/a
Upper Explosive Limit [%]:	n/a	Surface Tension [mN/m]:	n/a
Lower Explosive Limit [%]:	n/a	Volatile Component [%vol]:	n/a
Vapour Pressure [kPa]:	n/a	Gas Group:	n/a
Solubility in water [g/l]:	Insoluble	VOC g/l:	n/a

Section 10: STABILITY AND REACTIVITY

Stability:	Product is stable under normal conditions of use, storage and temperature
Reactivity:	Will absorb carbon dioxide and water from air
Hazardous Reactions:	Hazardous polymerisation will not occur
Conditions to avoid:	Incompatible materials
Incompatible Materials:	Acids, interhalogens, phosphorous pentachloride and chlorine trifluorides



Section 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL EFFECTS

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion:	Magnesium oxide is slowly absorbed. Ingestion may cause rapid bowel evacuation
Inhalation:	Nuisance dust. May cause irritation to the nasal passages and respiratory tract. Inhalation can cause a flu-like illness (metal fume fever). This 24- to 48-hour illness is characterized by chills, fever, aching muscles, dryness in the mouth and throat and headache.
Skin:	The material may be mildly discomforting and may cause drying of the skin if exposure is prolonged
Eye:	The dust may be discomforting and may be abrasive to the eyes and is capable of causing a mild, temporary redness of the conjunctiva (similar to wind-burn), temporary impairment of vision and/ or other transient eye damage/ ulceration.
Chronic Effects:	Principal routes of exposure are usually by inhalation of generated dust and skin contact. As with any chemical product, contact with unprotected bare skin; inhalation of vapour, mist or dust in work place atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice.
Acute Toxicity:	* Carcinogenic: *
Skin Irritation/ Corrosion:	* Reproductive Effects: *
Serious Eye Damage/Irritation:	* Specific Target Organ – SE: *
Respiratory / Skin Sensitiser:	* Specific Target Organ – RE: *
Mutagenic:	* Aspiration Hazard: *

Legend:
 ☉ Data not available to make classification
 ✓ Data Available to make classification
 * Data available but does not fill criteria for classification

TOXICOLOGICAL DATA: No LD50 data available for the product. However, Exposure Standard(s) for constituent(s):

Product	Toxicity	Irritation
Magnesium Oxide	480 mg/kg bw	Not available

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Avoid contaminating waterways
Bioaccumulation: Magnesium ions are a major component of all-natural waters

ECOLOGICAL DATA: No LC50 data available for the product. However, Exposure Standard(s) for constituent(s):

Section 13: DISPOSAL INFORMATION

Disposal: Refer to local government authority for disposal recommendations. Dispose of contents/container in accordance with local/regional/national/international regulations. Empty containers must be either rendered totally unusable, or if to be recycled for use, decontaminated by rinsing thoroughly with water. Rinsing water needs to be disposed of carefully

The following controls should be considered:

- Reduction
- Reuse
- Recycle
- Disposal

Disposal of materials or packaging must be carried out in accordance with Hazardous Substances Regulations 2001

Section 14: TRANSPORT INFORMATION

LABELLING REQUIREMENTS

Label: Not applicable
Marine Pollutant: No
Hazchem: Not regulated

LAND / AIR / SEA TRANSPORT Not regulated for transport of Dangerous Goods [UN]

Product Name: **Calcined Magnesite**
 Reference: IHL-SDS173

Issue Date: 11/05/2020
 Review Date: 11/05/2025
 Version:



Section 15: REGULATORY INFORMATION

REGULATIONS

HSR Number	Group Standard
HSR006644	Not available

LOCATION TEST CERTIFICATE

Hazard Class	Closed Container Controls	Open Container Controls
Not required	Not required	Not required

TRACKING REQUIREMENTS

Not applicable

Section 16: OTHER INFORMATION

This Safety Data Sheet was updated on the date shown at the bottom right of page, and supersedes all previous versions.

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material. The information is provided in good faith based on current knowledge and experience. No warranty with regard to the product properties is expressed or implied.

