

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: *exRES 8mm*
GENERIC NAME: *Magnesium Oxide Board*

PRESCRIBED USE: General external cladding board
COMPANY/SUPPLIER: *Multiboard Australia Pty Ltd*
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This MSDS and technical support provided by SHARP and HOWELLS Pty Ltd (Consulting Chemists).

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Please note that this MSDS has been prepared in evaluation of both the bulk product and the machined product (which includes any mechanical or physical impact or alteration to the product in the normal source of usage).

SECTION 2: HAZARDS IDENTIFICATION – Bulk and Machined Product

Classified as Non-Hazardous - Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Not Classified as Dangerous Goods - ADG Code

Signal Word: Warning



Pictograms:

Hazard Statements: **H315** – Causes Skin Irritation
H317 – May cause an allergic skin reaction
H319 – Causes serious eye irritation

Precautionary Statements: **P261**: Avoid breathing dust
P264: Wash hands thoroughly after handling
P271: Use only outdoors or in a well-ventilated area
P281: Use personal protective equipment as required

Response Statements: **P301 & P312**: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P302 & P352: IF ON SKIN: Wash with plenty of soap and water
P305 & P351 & P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P330: Rinse Mouth
P332 & P313: If skin irritation occurs: Get medical advice/attention
P337 & P313: If eye irritation persists: Get medical advice/attention
P362 & P363: Take off and wash contaminated clothing before reuse

Storage Requirements: **P405**: Store locked up.

Disposal Requirements: **P501**: Dispose of contents/container in accordance with the relevant regulations.

SECTION 3: COMPOSITION / INGREDIENTS – Bulk Product

<u>Chemical Entity</u>	<u>CAS No.</u>	<u>Proportion</u>
Magnesium Oxide	1309-42-8	50 %
Inorganic Silicates		20 %
Synthetic Fibres (Organosilicates)		< 1 %
Alkali Oxides		5 %
Acrylic Polymer		20 %
Other non-hazardous materials		< 5 %

This product DOES NOT contain asbestos

This product DOES NOT contain quartz (crystalline silica)

SECTION 4: FIRST AID MEASURES – Machined Product

Inhalation:

Remove to fresh air, away from dusty area. If symptoms persist, seek medical attention.

Ingestion:

Immediately contact Poison Information Centre on 13 11 26 (Australia wide). Do not induce vomiting.

Skin Contact:

Remove heavily contaminated clothing immediately. Wash off skin thoroughly with water. Use a mild soap if available. Shower if necessary. Seek medical attention for persistent irritation or burning of the skin.

Eye Contact:

Flush thoroughly with flowing water for 15 minutes to remove all traces. If symptoms such as irritation or redness persist, seek medical attention.

SECTION 5: FIRE FIGHTING MEASURES – Bulk Product

Fire/Explosion Hazard:

None.

Fire Extinguishing Media:

Use appropriate fire extinguisher for surrounding fire/environment.

Special Protective Equipment for Fire-fighters:

None required.

Hazchem Code:

Not assigned.

Hazardous products of combustion:

None.

Danger of Violent Reaction or Explosion:

May ignite and explode when heated with sulphur, magnesium powder, aluminium powder, or phosphorus pentachloride. Reacts violently with interhalogens, e.g. bromine pentafluoride, chlorine trifluoride. May produce toxic fumes when exposed to Hydrochloric Acid.

SECTION 6: ACCIDENTAL RELEASE MEASURES – Bulk and Machined Product

Emergency procedures:

Wear Personal Protective Equipment (PPE) as detailed in the section 8 of this document.

Avoid dust formation.

Evacuate all unnecessary and/or unprotected personnel.

Methods for cleaning up:

General waste material and dust should be collected for disposal with other construction materials in accordance with local authority guidelines. Dust should be wetted down with water to reduce generation of airborne dust before clean up. Beware slightly alkaline conditions that may be formed.

Environmental precautions

Do not allow product to enter sewers or waterways. Advise emergency services and appropriate local environment authority if contamination occurs.

SECTION 7: HANDLING AND STORAGE – Bulk Product

Precautions for safe handling:

Before use carefully read the product label. Use for safe work practises are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well ventilated areas removed from incompatible substances and food stuffs. Ensure packaging is adequately labelled, protected from physical damage and sealed when not in use.

Incompatibilities: Reacts violently with when heated with sulphur, magnesium powder, aluminium powder, or phosphorus pentachloride. Reacts violently with interhalogens. Is soluble in acid solutions and ammonia. May produce toxic fumes when exposed to Hydrochloric Acid. Do not store near these chemicals.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION – Machined Product

Exposure Standards:

<u>Chemical Entity</u>	<u>Reference</u>	<u>TWA (mg/m³)</u>
Magnesium Oxide	SWA (AUS)	10
Silicon dioxide (as glass fibre)	SWA (AUS)	0.5 f/mL

Engineering Controls:

All work with exRES 8mm products should be carried out in such a way as to minimise exposure to dust. Whenever practicable, the generation of dust on construction sites should be reduced by careful handling. Work areas should be kept clean by regular vacuuming or wet sweeping.

Ventilation:

General dilution ventilation should be provided as necessary to keep airborne dust below the recommended concentrations. The need for ventilation systems should be evaluated by a professional industrial hygienist, while the design of specific ventilation systems should be conducted by a professional engineer.

Personal protective equipment:

Respiratory protection:

Avoid breathing dust. Wear a P1 or P2 particulate disposable or cartridge dust mask (respirator) conforming to Australian Standards AS/NZS 1715: *Selection, use and maintenance of respiratory protective devices* and AS/NZS 1716: *Respiratory protective devices* when exposed to dust.

Use only respirators that bear the Australian Standards mark and are fitted and maintained correctly.

For dust levels approaching or exceeding the NES (see above) a more effective particulate respirator as described in AS/NZS 1715 should be worn.

Procedures for effective use of respirators should be applied and supervised.

Skin protection:

Wear standard duty gloves (AS 2161: *Industrial safety gloves and mittens*), loose comfortable clothing, and boots. Long-sleeved shirts and long trousers are recommended if skin itching occurs. Wash skin with mild soap and water after working with these products. Wash work clothes regularly. To avoid contamination of the face and lips and ingestion, wash hands before eating or smoking.

Eye protection:

Non-fogging dust resistant safety goggles, glasses (AS/NZS 1336: *Recommended practices for eye protection in the occupational environment*) or faced shield should be worn if there is a risk of dust getting into the eye.

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the toilet and at the end of the working period. Do not smoke whilst exposed to exRES 8mm dust.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES – Bulk Product

Appearance:	Solid blue coloured prefabricated layered board with synthetic fibre inserts – 8mm thickness
Odour:	Odourless
Density:	No Data Available
Odour Threshold:	No Data Available
Melting Point/Freezing Point:	Not applicable
Initial Boiling Point & Boiling Range:	Not applicable
Flash Point:	No Data Available
Evaporation Rate:	Not applicable
Flammability:	No Data Available
Upper/Lower Flammability/Explosive Limits:	Not applicable
Vapour pressure:	Not applicable
Vapour density:	Not applicable
Water Solubility:	No Data Available
Partition Coefficient:	Not applicable
Auto-Ignition Temperature:	No Data Available
Decomposition Temperature:	Not applicable
Viscosity:	Not applicable
Particle Size:	Not applicable

SECTION 10: STABILITY AND REACTIVITY – Bulk Product

Stability:	Stable under ambient or recommended conditions of use and storage.
Incompatible Materials:	When heated: Sulphur, magnesium powder, aluminium powder, or phosphorus pentachloride. Reacts violently with interhalogens. May produce toxic fumes when exposed to Hydrochloric Acid.
Hazardous decomposition:	May evolve hazardous gas and magnesium oxides when heated to decomposition. May produce toxic fumes when exposed to Hydrochloric Acid. Is soluble in acid solutions and ammonia.

SECTION 11: TOXICOLOGICAL INFORMATION – Machined Product

Health Effects:	Acute (Short Term) Exposure The health effects due to dust from exRES 8mm are those due to irritating dust.
Inhalation:	Inhalation of the dust may irritate the nose, throat and respiratory tract, resulting in sneezing, coughing and increased mucous.
Swallowed:	Unlikely under normal conditions. Swallowing the dust may cause abdominal discomfort.
Eye:	The dust may be irritating and corrosive to the eyes, resulting in redness, watering and ulceration of the surface of the eye (cornea). Exposure to the dust may aggravate existing eye conditions.
Skin:	The dust may be irritating and abrasive to the skin, causing itching, redness and dermatitis in some people. The dust is not absorbed through the skin. Chronic skin disorders may be aggravated by exposure to the dust.
Health Effects:	Chronic (Long Term) Exposure
Inhalation:	Repeated exposure to the dust may result in increased nasal and respiratory secretions and coughing. Inflammation of the lining tissue of the respiratory system may follow repeated exposure to high levels of dust, with increased risk of bronchitis and pneumonia.
Eye:	Dust may cause irritation and inflammation of the cornea.
Skin:	Repeated contact causes irritation and drying of the skin and can result in skin reddening and skin rash (dermatitis). Over time this may become chronic and can also become infected.

SECTION 12: ECOLOGICAL INFORMATION – Bulk and Machined Product

This product should be used only for its designated purposes, and should not be deposited in watercourses.

Ecotoxicity:	Toxicity occurs due to elevated Magnesium levels and associated problems.
Persistence/Degradability:	Magnesium Oxide and Synthetic Fibre components of exRES 8mm are persistent.
Bioaccumulative potential:	Magnesium Oxide and other components of exRES 8mm do not bioaccumulate.
Mobility:	No data available. A low mobility is expected.

SECTION 13: DISPOSAL CONSIDERATIONS – Bulk and Machined Product

Method of disposal: Wetting down dust before sweeping is recommended. Vacuuming with an industrial vacuum cleaner outfitted with a high-efficiency filter is recommended over sweeping. Waste may be disposed of by landfill in compliance with federal, provincial, state, territory and local requirements governing non-toxic mineral materials

Special precautions: Keep material out of storm water and sewer drains. Measures should be taken to prevent dust generation during disposal, and exposure and personal precautions should be observed.

SECTION 14: TRANSPORT INFORMATION – Bulk Product

Not classified as Dangerous Goods according to the ADG Code.

No special transport requirements are necessary.

Subject to transport regulations.

ADG:	Not regulated as Dangerous Goods
IMDG:	Not regulated as Dangerous Goods
ICAO/IATA:	Not regulated as Dangerous Goods

UN Number: None allocated

UN Proper Shipping Name: None allocated

Dangerous Goods Class: None allocated

Subsidiary risk: None allocated

Packing Group: None allocated

Hazchem Code: None allocated

SECTION 15: REGULATORY INFORMATION – Bulk Product

exRES 8mm is not classified as Dangerous Goods.

No Poisons Schedule number has been allocated to any of the components of exRES 10mm.

Occupational exposure to dust from this product is classified as hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS).

SECTION 16: OTHER INFORMATION

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Key to abbreviations:

ACGIH	American Conference of Governmental Industrial Hygienists
ADG	Australian Code for the Transport of Dangerous Goods by Road and Rail
AICS	Australian Inventory of Chemical Substances
ASCC	Australian Safety and Compensation Council
CAS	Chemical Abstracts Service Registry Number
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
HSIS	Hazardous Substances Information System
ICAO	International Civil Aviation Organisation
IATA	International Air Transport Association
IMDG	International Maritime Organisation Rules
STEL	Short term exposure limit
TWA	Time weighted average
LC _{Lo}	Lethal Concentration Low – lowest concentration causing death
LD _{Lo}	Lethal Dose Low – lowest dose causing death
LC ₅₀	Lethal Concentration required to kill 50% of test population
EC ₅₀	Half maximal effective concentration

Label Hazard Warning:

MAY BE HARMFUL IF SWALLOWED.

MAY CAUSE IRRITATION TO SKIN, EYES, RESPIRATORY TRACT AND GASTROINTESTINAL TRACT.

Label First Aid:

IN SEVERE CASES, CALL FOR MEDICAL ATTENTION IMMEDIATELY.

If ingested/swallowed, and patient is conscious, rinse out mouth with water.

If inhaled, remove patient to fresh air.

In case of eye contact, immediately flush eyes with water.

In case of skin contact, wash with soap and water.

This MSDS has been prepared and issued by:

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The information contained herein is based on the present state of our knowledge. This document characterises the product with regard to the appropriate safety precautions, and is only proposed as a guide when applied for its intended use. Each intended user should consult this MSDS, and perform their own appropriate risk assessment in context to how the product will be handled and used in the workplace. Sharp and Howells Pty Ltd will not be responsible for any loss or damages resulting from use of or reliance on the information and advice contained herein.