

# MATERIAL SAFETY DATA SHEET

## SECTION 1: PRODUCT AND COMPANY INFORMATION

**PRODUCT NAME:** *Ezy-Lite Board or Astrix 50 mm*

**GENERIC NAME:** *Magnesium Oxide Board*

**PRESCRIBED USE:** Wallboard, ceiling board, tile backing board, underlay, flooring substrate, sheathing, fascia, ceiling board, roofing substrate, siding, trim material. Structural Insulated Panels (SIPS) and Exterior Insulated Finish Systems (EIFS)

**COMPANY/SUPPLIER:** *Ezy-Lite*

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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	1309-48-4	> 40%
Cellulose	9004-34-6	< 40%
Silicon Dioxide	7631-86-9	< 6%
Calcium Hydroxide	1305-78-8	< 3%
Magnesium Chloride	7786-30-3	< 3%
Iron Oxide	1309-37-1	< 1%
Other non-hazardous materials	NA	< 7%

## **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 sublimed 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:

<b>Chemical Entity</b>	<b>Reference</b>	<b>TWA (mg/m<sup>3</sup>)</b>
Cellulose	SWA (AUS)	10
Calcium Hydroxide	SWA (AUS)	5
Iron Oxide	SWA (AUS)	5
Magnesium Oxide	SWA (AUS)	10
Silicon dioxide (as glass fibre)	SWA (AUS)	0.5 f/mL

### Engineering Controls:

All work with hydrated lime 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 hydrated lime dust.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES – Bulk Product**

<b>Appearance:</b>	Pink, white, or grey sheet material
<b>Odour:</b>	Odourless
<b>pH (1 + 5 Solution @ 25°C):</b>	10 (slightly alkaline)
<b>Density:</b>	0.45 to 0.95 g/cm <sup>3</sup>
<b>Odour Threshold:</b>	No Data Available
<b>Melting Point/Freezing Point:</b>	Not applicable
<b>Initial Boiling Point &amp; Boiling Range:</b>	Not applicable
<b>Flash Point:</b>	No Data Available
<b>Evaporation Rate:</b>	Not applicable
<b>Flammability:</b>	No Data Available
<b>Upper/Lower Flammability/Explosive Limits:</b>	Not applicable
<b>Vapour pressure:</b>	Not applicable
<b>Vapour density:</b>	Not applicable
<b>Water Solubility:</b>	No Data Available
<b>Partition Coefficient:</b>	Not applicable
<b>Auto-Ignition Temperature:</b>	No Data Available
<b>Decomposition Temperature:</b>	Not applicable
<b>Viscosity:</b>	Not applicable
<b>Particle Size:</b>	Not applicable

## **SECTION 10: STABILITY AND REACTIVITY – Bulk Product**

<b>Stability:</b>	Stable under ambient or recommended conditions of use and storage.
<b>Incompatible Materials:</b>	When heated: Sulphur, magnesium powder, aluminium powder, or phosphorus pentachloride. Reacts violently with interhalogens. May produce toxic fumes when exposed to Hydrochloric Acid.
<b>Hazardous decomposition:</b>	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**

<b>Health Effects:</b>	<b>Acute (Short Term) Exposure</b> The health effects due to dust from Ezy-Lite Next Gen Boards and Astrix 50 mm are those due to irritating dust.
<b>Inhalation:</b>	Inhalation of the dust may irritate the nose, throat and respiratory tract, resulting in sneezing, coughing and increased mucous.
<b>Swallowed:</b>	Unlikely under normal conditions. Swallowing the dust may cause abdominal discomfort.
<b>Eye:</b>	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.
<b>Skin:</b>	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.
<b>Health Effects:</b>	<b>Chronic (Long Term) Exposure</b>
<b>Inhalation:</b>	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.
<b>Eye:</b>	Dust may cause irritation and inflammation of the cornea.
<b>Skin:</b>	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.

<b>Ecotoxicity:</b>	Toxicity occurs due to elevated Magnesium levels and associated problems.
<b>Persistence/Degradability:</b>	Magnesium Oxide and glass fibre components of Ezy-Lite and Astrix are persistent.
<b>Bioaccumulative potential:</b>	Magnesium Oxide and other components of Ezy-Lite and Astrix do not bioaccumulate.
<b>Mobility:</b>	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.**

<b>ADG:</b>	Not regulated as Dangerous Goods
<b>IMDG:</b>	Not regulated as Dangerous Goods
<b>ICAO/IATA:</b>	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**

Ezy-Lite Next Gen Boards and Astrix 50 mm are not classified as Dangerous Goods.

No Poisons Schedule number has been allocated to any of the components of Ezy-Lite Next Gen Boards or Astrix 50 mm.

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 <sub>Lo</sub>	Lethal Concentration Low – lowest concentration causing death
LD <sub>Lo</sub>	Lethal Dose Low – lowest dose causing death
LC <sub>50</sub>	Lethal Concentration required to kill 50% of test population
EC <sub>50</sub>	Half maximal effective concentration

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### 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.

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### 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.*