# E-METRIX AAC PANELS SAFETY DATA SHEET (SDS)

## GHS Compliance

**Product Name:** E-METRIX® Reinforced AAC Panel
**Version:** 1.0 – 2026
**Prepared For:** E-METRIX® AAC Panels / Helix Buildtech Pty Ltd

# SECTION 1
# IDENTIFICATION OF THE MATERIAL AND SUPPLIER

| Item | Details |
|---|---|
| Product Name | E-METRIX® Reinforced AAC Panel |
| Other Names | 75mm E-METRIX® AAC Panel, Reinforced AAC Wall Panel, AAC External Wall Panel |
| Recommended Use | External and internal wall systems for residential and commercial construction applications |
| Supplier | Helix Buildtech Pty Ltd |
| Product Type | Reinforced Autoclaved Aerated Concrete (AAC) panel |
| Emergency Phone Number | 000 (Australia Emergency Services) |
| Poisons Information Centre | 13 11 26 (Australia only) |

# SECTION 2
# HAZARDS IDENTIFICATION

The supplied E-METRIX® Reinforced AAC Panels are classified as **Non-Hazardous** under Safe Work Australia criteria and **Non-Dangerous Goods** according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

During cutting, sanding, drilling, chasing or grinding, respirable crystalline silica dust may be generated. Dust generated during processing may present a health hazard.

### GHS CLASSIFICATION

| Hazard Class | Category | Hazard Statement |
|---|---|---|
| Eye Irritation | Category 2A | Causes serious eye irritation |
| Skin Irritation | Category 2 | Causes skin irritation |
| Specific Target Organ Toxicity – Single Exposure | Category 3 | May cause respiratory irritation |
| Specific Target Organ Toxicity – Repeated Exposure | Category 2 | May cause damage to organs through prolonged or repeated exposure |

### PRECAUTIONARY STATEMENTS

- Avoid breathing dust.
- Wear appropriate respiratory protection during cutting or drilling.
- Use adequate ventilation and dust extraction.
- Wear eye protection, gloves and protective clothing.
- Wash thoroughly after handling.

## SECTION 3
# COMPOSITION AND INFORMATION ON INGREDIENTS

| Chemical Ingredient | CAS Number | Approximate Proportion |
|---|---|---|
| Calcium Silicate | 1344-95-2 | 65–75% |
| Crystalline Silica (Quartz) | 14808-60-7 | 20–30% |
| Calcium Sulfate (Gypsum) | 7778-18-9 | 3–8% |
| Cementitious Materials & Additives | Proprietary | <5% |
| Steel Reinforcement | Various | Encapsulated |

## SECTION 4
# FIRST AID MEASURES

### SKIN CONTACT
Remove excess material and wash affected area with water and mild soap. Remove contaminated clothing. Seek medical attention if irritation develops.

### EYE CONTACT
Flush eyes immediately with clean water for at least 15 minutes while lifting eyelids. Seek medical advice if irritation persists.

### INHALATION
Move person to fresh air. Keep at rest. Seek medical advice if coughing, breathing difficulty or irritation persists.

### SWALLOWED
Rinse mouth thoroughly with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention if symptoms occur.

### ADVICE TO DOCTOR
Treat symptomatically.

## SECTION 5
# FIRE FIGHTING MEASURES

| Item | Details |
|---|---|
| Flammability | Non-combustible |
| Suitable Extinguishing Media | Use extinguishing media appropriate for surrounding fire |
| Hazardous Combustion Products | None known |
| Fire Fighting Precautions | Wear self-contained breathing apparatus if required |
| HAZCHEM Code | None allocated |

# SECTION 6
# ACCIDENTAL RELEASE MEASURES

Use appropriate PPE during clean-up.
Avoid generating airborne dust. Use vacuum systems or wet sweeping methods where possible.
Dispose of waste material in accordance with local regulations.

# SECTION 7
# FIRST AID MEASURES

### STORAGE
- Store in dry conditions.
- Protect from moisture and physical damage.
- Store on level surfaces.
- Keep away from food and beverages.
- Ensure opened packs are protected from weather.

### INCOMPATIBILITY
No known incompatibilities under normal conditions of use.

### SAFE HANDLING
- Use with adequate ventilation.
- Avoid inhalation of dust.
- Use proper lifting techniques.
- A minimum of two people should carry large panels.
- Carry panels on edge rather than flat.
- Wear suitable PPE during handling and installation.

# SECTION 8
# EXPOSURE CONTROLS AND PERSONAL PROTECTION

### EXPOSURE STANDARDS

| Substance | Exposure Standard (TWA) |
|---|---|
| Calcium Silicate | 10 $mg/m^3$ |
| Calcium Sulfate (Gypsum) | 10 $mg/m^3$ |
| Respirable Crystalline Silica | 0.05 $mg/m^3$ |

All atmospheric contaminants should be kept as low as reasonably practicable.

### ENGINEERING CONTROLS
- Use local exhaust ventilation and dust extraction systems.
- Maintain regular housekeeping to prevent dust accumulation.
- Avoid dry sweeping where possible.

### PERSONAL PROTECTIVE EQUIPMENT
**Respiratory Protection**
Use P1 or P2 respirators compliant with AS/NZS 1715 and AS/NZS 1716 during cutting, drilling or sanding operations.

### EYE PROTECTION
Wear safety glasses with side shields in accordance with AS 1336.

### SKIN PROTECTION
Wear gloves, long sleeves, trousers and protective footwear.

### HEARING PROTECTION
Use hearing protection suitable for power tool operation.

### HYGIENE MEASURES
Wash hands after handling and before eating, drinking or smoking.

## SECTION 9
# PHYSICAL AND CHEMICAL PROPERTIES

| Property | Value |
|---|---|
| Appearance | Solid reinforced panel |
| Colour | Off-white / grey |
| Odour | Odourless |
| pH | Approx. 9–10 |
| Solubility in Water | Insoluble |
| Density | Approx. 450–560 kg/m$^3$ |
| Flash Point | Not applicable |
| Flammability | Non-combustible |
| Vapour Pressure | Not applicable |
| Melting Point | Not available |

## SECTION 10
# STABILITY AND REACTIVITY

| Item | Details |
|---|---|
| Chemical Stability | Stable under normal conditions |
| Conditions to Avoid | Excessive dust generation |
| Incompatible Materials | Strong acids |
| Hazardous Decomposition | None known |
| Hazardous Polymerisation | Will not occur |

# SECTION 11
# TOXICOLOGICAL INFORMATION

### ROUTES OF EXPOSURE
- Inhalation
- Eye contact
- Skin contact
- Ingestion

### ACUTE EFFECTS

**Skin Contact**
May cause dryness, irritation or abrasion.

### EYE CONTACT
Dust may cause irritation, redness or discomfort.

### INHALATION
Dust may irritate the nose, throat and respiratory tract.

### INGESTION
Swallowing large quantities of dust may cause discomfort.

### CHRONIC EFFECTS
Repeated or prolonged inhalation of respirable crystalline silica dust may cause silicosis and other respiratory diseases.

Long-term exposure may aggravate existing respiratory conditions.

# SECTION 12
# ECOLOGICAL INFORMATION

| Item | Details |
|---|---|
| Ecotoxicity | No known significant effects |
| Persistence | Not biodegradable |
| Mobility | Limited mobility |
| Environmental Hazard | Avoid uncontrolled dust release |

# SECTION 13
# DISPOSAL CONSIDERATIONS

Dispose of waste material in accordance with local authority regulations.
Do not dispose of dust into drains or waterways.
Recycle clean AAC waste where facilities exist.

## SECTION 14
# TRANSPORT INFORMATION

| Item | Details |
|---|---|
| UN Number | None allocated |
| Proper Shipping Name | None allocated |
| Dangerous Goods Class | None allocated |
| Packaging Group | None allocated |
| HAZCHEM Code | None allocated |
| Transport Classification | Non-Dangerous Goods |

## SECTION 15
# TOXICOLOGICAL INFORMATION

The components of this product are listed on the Australian Inventory of Industrial Chemicals (AIIC/AICS).
This SDS has been prepared in accordance with Safe Work Australia guidelines.

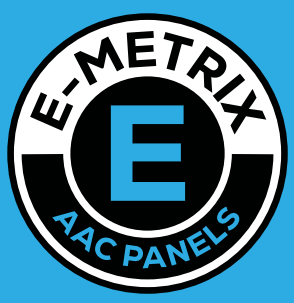
## SECTION 16
# OTHER INFORMATION

This Safety Data Sheet has been prepared using information available from:

- E-METRIX® Technical Manual
- AAC industry reference SDS documentation
- Safe Work Australia GHS guidance

The information contained in this SDS is believed to be accurate at the date of issue but does not constitute a guarantee of specific product properties.

Users are responsible for ensuring compliance with all applicable legislation and workplace safety requirements.


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AAC PANELS