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Please see the Australian and New Zealand SDS  
documents as follows

# Respirable Crystalline Silica

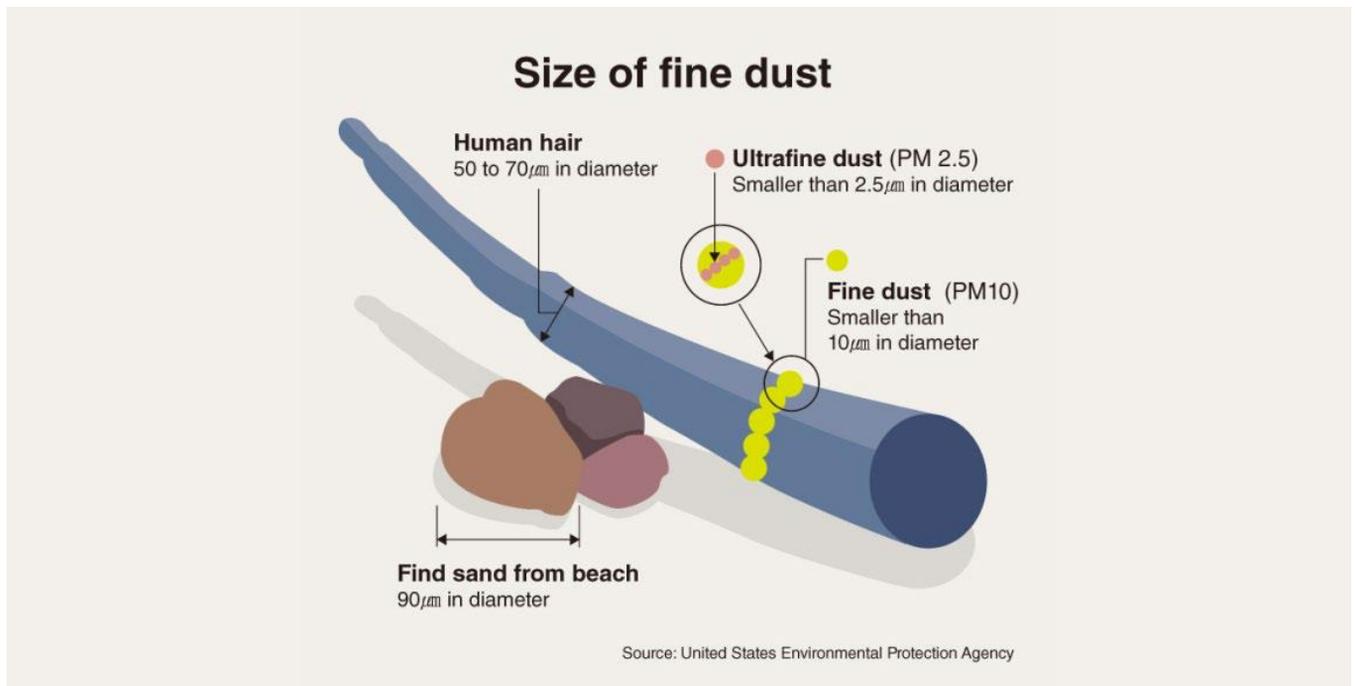
Workplace Exposure is Preventable

**What is Crystalline Silica?** — Crystalline Silica is found naturally in stone, rocks, sand, gravel and clay.

**What is Respirable Crystalline Silica Dust?** — Respirable crystalline silica is dust generated from materials and products containing silica. It is released when mechanically treated (e.g., cutting, sawing, abrading such as rasping, scaping, grinding down, chasing or crushing).

This dust is of concern due to its size — it can become trapped deep in the lungs and cause long-term damage.

Independent testing has determined the amount of Crystalline Silica that may become respirable size particles when conducting these activities. (Helix testing recorded under 4% RCS in dust generated.)



## Section 1. Product Identification

<b>PRODUCT NAME</b>	Helix AAC Adhesive Powder
<b>PRODUCT USE</b>	Bonding AAC panels and blocks in construction
<b>SUPPLIER</b>	<b>Helix AAC Pty Ltd</b> Unit 58 / 7 Dalton Road, Thomastown VIC 3074, Australia Ph 1300 435 492 www.helixsystems.com.au
<b>EMERGENCY</b>	Poisons Information Centre Australia: <b>13 11 26</b>

## Section 2. Hazard Identification

<b>Hazardous Nature</b>	Helix AAC Adhesive is a cement-based powder. It becomes caustic when mixed with water and can cause serious eye damage, skin irritation, and respiratory irritation from dust inhalation. Respirable dust is the principal hazard.	
The following GHS classifications refer ONLY to this product:		
<b>GHS Classification:</b>	<b>GHS Pictograms:</b>	<b>GHS Signal Word:</b>
<ul style="list-style-type: none"> <li>• Skin Irritation – Category 2</li> <li>• Eye Damage – Category 1</li> <li>• STOT SE – Category 3 (respiratory irritation)</li> </ul>		<b>DANGER</b>
The following GHS Hazard and Precautionary statements refer only to Helix AAC Adhesive:		
<b>GHS Hazard Statements:</b>	<b>GHS Precautionary Statements:</b>	
<ul style="list-style-type: none"> <li>• <b>H315</b> – Causes skin irritation</li> <li>• <b>H318</b> – Causes serious eye damage</li> <li>• <b>H335</b> – May cause respiratory irritation</li> </ul>	<ul style="list-style-type: none"> <li>• <b>P261</b> – Avoid breathing dust</li> <li>• <b>P264</b> – Wash hands thoroughly after handling</li> <li>• <b>P280</b> – Wear gloves, goggles, and protective clothing</li> </ul>	
Helix AAC Adhesive is classified as <b>Non-Dangerous Goods</b> according to the <b>Australian Code for the Transport of Dangerous Goods by Road and Rail</b> .		

## Section 3. Composition Information

Substance	Proportion
Portland Cement	20–50%
Mineral Fillers (limestone, quartz)	30–70%
Polymer Additives	<5%
Hydration Control Agents	<2%
<b>Contains respirable crystalline silica in trace percentages.</b>	

## Section 4. First Aid Measures

<b>INHALATION</b>	Move to fresh air. Seek medical attention if coughing persists.
<b>EYE CONTACT</b>	Immediately flush with water for 15+ minutes. Urgent medical attention required.
<b>SKIN CONTACT</b>	Wash with soap & water. Remove contaminated clothing. Seek advice if irritation continues.
<b>INGESTION</b>	Rinse mouth. Do not induce vomiting. Seek medical attention.
<b>Advice to Doctor:</b> Treat as strong alkaline exposure.	

## Section 5. Fire Fighting Measures

<b>Suitable Extinguishing Media</b>	Use carbon dioxide, foam, dry chemical, or water spray as required for fire in surrounding materials. The product itself is not flammable or combustible.
<b>Specific Hazards</b>	No hazardous decomposition expected.
<b>Special protective Equipment &amp; Precautions for Firefighters</b>	As required for fire in surrounding materials.
<b>HAZCHEM Code</b>	None Applicable

## Section 6. Accidental Release Measures

<b>Personal Precautions, PPE &amp; Emergency Procedures</b>	Avoid generating dust. Use appropriate PPE as outlined in Section 8 (Exposure Controls / Personal Protection).
<b>Environmental Precautions</b>	Collect material to prevent release into drains or natural waterways. Dispose of according to local regulations.
<b>Methods &amp; Materials for Containment &amp; Clean up</b>	Use wet clean-up methods or an H-class vacuum to avoid making dust airborne. Collect material for reuse or disposal in accordance with local regulations.

## Section 7. Handling & Storage

<b>Handling</b>	<ul style="list-style-type: none"> <li>Avoid breathing dust when mixing</li> <li>Do not rinse waste slurry into drains</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>Store in dry conditions, sealed to avoid moisture activation</li> </ul>
<b>Standard references:</b> AS/NZS 1715, WHS Silica Guidelines	

## Section 8. Exposure Controls / Personal Protective Equipment

<b>Exposure Limit (Australia)</b>	Respirable Crystalline Silica (Quartz): 0.05 mg/m <sup>3</sup> TWA
<b>PPE when mixing or sanding</b>	<ul style="list-style-type: none"> <li>Respirator P2/P3 (AS/NZS 1716)</li> <li>Chemical-resistant gloves</li> <li>Safety goggles or face shield</li> <li>Long sleeves, safety boots</li> </ul>
<b>Engineering Controls</b>	<ul style="list-style-type: none"> <li>Mix outdoors or in ventilated areas</li> <li>Dust extraction where possible</li> </ul>

## Section 9. Physical & Chemical

<b>Appearance</b>	Fine grey/off-white powder
<b>Odour</b>	Slight cement smell
<b>pH (wet mix)</b>	Strongly alkaline 11–13
<b>VOC</b>	Nil
<b>Solubility</b>	Limited in water (hardens on curing)

## Section 10. Stability & Reactivity

<b>Stability</b>	Stable when dry
<b>Conditions to Avoid</b>	Avoid exposure to moisture. Water triggers an exothermic hydration reaction.
<b>Incompatible Materials</b>	Avoid contact with acids.
<b>Hazardous Decomposition Products</b>	None expected under normal conditions of use.
<b>Hazardous Polymerisation</b>	Will not occur

## Section 11. Toxicological Information

<b>SWALLOWED</b>	Unlikely under normal industrial use. Ingestion may cause irritation to the mouth, throat, and digestive tract, leading to nausea or abdominal discomfort.
<b>EYES</b>	<p><b>Short-Term:</b> Causes severe irritation and watering. Contact with wet material may cause serious eye damage.</p> <p><b>Long-Term:</b> Prolonged or repeated exposure may result in permanent eye injury if not promptly treated.</p>
<b>SKIN</b>	<p><b>Short-Term:</b> Contact with dry powder or wet mixture may cause irritation, redness, or chemical burns due to alkalinity when mixed with water.</p> <p><b>Long-Term:</b> Repeated or prolonged skin contact may lead to dermatitis or dry, cracked skin.</p>
<b>INHALED</b>	<p><b>Short-Term:</b> Dust may cause irritation of the nose, throat, and respiratory tract, resulting in coughing or sneezing.</p> <p><b>Long-Term:</b> Chronic inhalation of respirable crystalline silica may lead to silicosis or other lung diseases if exposure limits are exceeded.</p>

## Section 12. Ecological Information

<b>Eco-Toxicity</b>	Product hardens into an inert solid once mixed with water. No significant ecotoxicity expected. Avoid release of wet slurry into waterways, as it may increase pH.
<b>Persistence &amp; Degradability</b>	Product is persistent and non-biodegradable but will remain as an inert solid once set.
<b>Bioaccumulative Potential</b>	No evidence to suggest bioaccumulation will occur.
<b>Mobility in Soil</b>	Low mobility expected. Product will solidify and bind with soil when hydrated.

## Section 13. Disposal

<b>Unused Powder</b>	Dispose per local construction waste guidelines
<b>Hardened Material</b>	Landfill as inert waste

## Section 14. Transport Information

<b>UN Number</b>	None Allocated
<b>UN Proper Shipping Name</b>	Not classified as Dangerous Goods by the ADG, IATA, or IMDG Codes.
<b>Class &amp; Subsidiary Risk</b>	Not classified as Dangerous Goods.
<b>Packaging Group</b>	None Allocated
<b>Special Precautions for User</b>	Avoid generating dust during handling and transport. Ensure packaging is sealed to prevent moisture.
<b>HAZCHEM Code</b>	None Allocated

## Section 15. Regulatory Information

<b>Poisons</b>	None Scheduled
This product complies with the following applicable standards and regulations:	
<ul style="list-style-type: none"><li>• Globally Harmonised System (GHS) Classification</li><li>• Safe Work Australia – Workplace Exposure Standard for Respirable Crystalline Silica</li><li>• Work Health and Safety (WHS) Hazardous Substances Regulations</li></ul>	

## Section 16. Other Information

<b>Further Information Contact</b>	<b>Helix AAC Pty Ltd</b> Unit 58 / 7 Dalton Road, Thomastown VIC 3074, Australia Ph 1300 435 492 <a href="http://www.helixsystems.com.au">www.helixsystems.com.au</a>
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## DISCLAIMER

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This SDS was generated from information available of the components of this product. SDS date of preparation: 30<sup>th</sup> October 2025