

Material Safety Data Sheet Autoclaved Aerated Concrete

SECTION 1. Identification	
Product Name	Autoclaved Aerated Concrete (AAC)
Recommended Use	Prefabricated Panels and Blocks for facades, exterior and interior walls, floor, and roof
Manufacturer	Aircrete Mexico
Imported and Distributed by	LITECON CORP

SECTION 2. Hazards Identification	
Skin Contact	Handling may cause dry skin.
Eye Contact	Dust may irritate the eyes from mechanical abrasion causing watering and redness.
Inhalation	Irritation of nose and upper respiratory tract, shortness of breath.
Ingestion	Unlikely under normal conditions of use but, swallowing the dust from this product may result in irritation or damage to the mouth and gastrointestinal tract due to alkalinity and fine particle size of the dust.

SECTION 3. Composition / Information on Ingredients			
CaO	18-36%	Fe ₂ O ₃	2%
SiO ₂	32-58%	Alkalis	<1%
Al ₂ O ₃	2.4%	Others	1-4%
MgO	< 2%	Weight loss	8-12%

SECTION 4. First Aid Measures	
Skin Contact	Wash affected areas with soap and water. If irritation persists, seek medical attention.
Eye Contact	Immediately flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention if eye irritation persists.
Inhalation	Keep patient calm. Remove from exposure to fresh air. Provide necessary breathing support. Consult medical professionals for further information if symptoms persist.
Ingestion	If swallowed drink large amounts of water. Do not induce vomiting. Call a physician.

SECTION 5. Fire Fighting Measures	
The supplied Autoclaved Aerated Concrete is Non-combustible.	
Suitable extinguishing media	Use an extinguisher suitable for adjacent flammable materials.
Hazards from combustion products.	None
Special precautions for fire fighters	Recommend wearing self-contained breathing apparatus and staying upwind. Be aware that AAC panels may fall from the structure if fire melts the connections.
Hazchem Code	None

SECTION 6. Accidental Release Measures
To prevent obstruction, do not wash down drain. Sweep, vacuum, or otherwise place material into a waste container for disposal. If needed, use water spray to wet down and minimize dust generation. Wear approved respirator, if necessary.

SECTION 7. Handling and Storage	
Safe Handling	AAC panels are heavy and could cause crushing injuries. Adhere to proper safety when using cranes and lifting devices.
Safe Storage	Store AAC panels off the ground, in areas that are not contaminated by corrosive materials, acid, paints and the like. Ensure that protective coating is properly applied to the exposed ends of steel reinforcement.

SECTION 8. Exposure Controls / Personal Protection	
Personal protective equipment	<p>Eyes: Wear tight-fitting non-fogging goggles, to protect eyes when cutting or drilling AAC panels or blocks. These must comply with AS/NZS 1336 recommended practices for occupational eye protection, and AS/NZS 1337 eye protectors for industrial applications.</p> <p>Breathing: If working in well-ventilated open spaces, with low quantities of dust generation, the use of a personal respirator is not necessary. If these conditions cannot be achieved, a respirator should be used. In case of high dust concentration, use cartridge respirators. Respirators must comply with: AS/NZS 1715 selection, use and maintenance of respiratory protective devices and AS/NZS 1716 respiratory protective devices.</p> <p>Skin protection: Protective clothing such as long sleeve shirts and trousers, or overalls to prevent possible skin irritation. This will also have the added benefit of protecting outside workers from the sun.</p>



	<p>Personal Hygiene: Regularly clean personal protective equipment and wash hands.</p>
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SECTION 9. Physical and Chemical Properties	
Appearance	Flat
Color	Off-white
Odor	Odorless
PH	8-11
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Boiling Point	Not applicable
Freezing/Melting Point	Not applicable
Solubility in Water	Insoluble
Flash Point	Not applicable
Flammable Limits	Not applicable
Evaporation Rate	Not applicable
Octanol / water distribution coefficient:	Not applicable

SECTION 10. Stability and Reactivity	
Chemical Stability	Stable and none-reactivity.
Conditions to Avoid	Excessive dust generation during storage and handling.
Incompatible Materials	None
Hazardous Decomposition Products	Not occur.
Hazardous Polymerization	Has not been reported.

SECTION 11. Toxicological Information	
Dust inhaled into lungs	<p>Exposure to silica dust may cause irritation to the mucous membranes of the nose, throat, and upper respiratory system. It may also leave unpleasant deposits in the nose.</p> <p>Prolonged exposure to respirable free crystalline silica may aggravate other lung conditions. It may also cause delayed lung injury including silicosis, a disabling and potentially fatal lung disease</p>
Skin Contact	Touch the material with bare skin may cause drying of the skin with consequent mild irritation or abrasion.
Eye Contact	Eye contact by larger amounts of silica dust may cause effects ranging from moderate eye irritation to chemical burns.
Swallow	Wash out the mouth with clean water and wash all dust from the skin. Do not cause vomiting. Seek medical assistance if illness persists.

SECTION 12. Ecological Information	
Ecotoxicity	AAC panels and blocks are mildly alkaline, with pH in the range 8 to 11. Non-toxic to living organisms.
Biodegradability	Autoclaved Aerated Concrete is not expected to biodegrade.
Mobility	Low mobility in landfill.



SECTION 13. Disposal Considerations	
Disposal methods and containers	Waste management should be in compliance with local authority regulations. Whatever cannot be saved for recycling should be managed in an appropriate and approved waste disposal facility. The dusty product should not be disposed into sewers.
Special precautions for landfill and incineration	Contact a specialist disposal company or the local waste regulator for advice.

SECTION 14. Transport Information	
UN Number	None allocated
UN Proper Shipping Name	Not applicable
Class and subsidiary risk	None allocated
Packing Group	None allocated
Special precautions for user	None allocated
Hazchem Code	None allocated

SECTION 15. Regulatory Information	
The regulatory status of a material.	Not applicable. See previous sections on risks of dust inhalation.

SECTION 16. Other Information	
<p>This information, which to the best of our knowledge, is accurate at the time of preparation. No responsibility can be accepted for errors and omissions, changes to manufacture, or failure of the manufacturer to adhere to the manufacturing specifications. No responsibility can be accepted for failure to use the product in a manner recommended by the supplier. Builders, tradesmen, and other product users must independently assess the risks associated with the product use and formulate occupational health and safety procedures on that basis. The use of the product is beyond the control of the authors of this MSDS, who cannot accept responsibility for any loss or damage associated this MSDS.</p>	