

Autoclaved Aerated Concrete Safety Data Sheet (SDS)



SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Autoclaved Aerated Concrete
Other Names	NASAHI AAC Panel, Walsc AAC Panel, NASAHI AAC Floor Panel, NASAHI AAC Block, Walsc AAC Block
Recommended Use	<ul style="list-style-type: none"> - External wall cladding, inter-tenancy wall and flooring for low-rise residential buildings. - Internal walls and façade for apartments and commercial buildings. - Construction Blocks.
Supplier	Sipo Building Solutions Pty Ltd
Address	D3, 27-29 Fariola Street, Silverwater NSW 2128
Telephone	02 9748 2832
Email Address	info@sipo.com.au
Website	www.walsc.com.au
Emergency Phone Number	000 Fire Brigade, Police and Ambulance (available in Australia only)
Poisons Information Center	13 11 26 (available in Australia only)



SECTION 2: HAZARDS IDENTIFICATION

The supplied Autoclaved Aerated Concrete is classified as **Non-Dangerous Goods** according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

During the delivery and installation, dust is created when this product is abraded, sawn, cut or drilled. The inhalation of respirable crystalline silica carried by the dust is harmful. This respirable portion is classified as **Hazardous** by the Hazardous Chemical Information Scheme from Safe Work Australia.

Classification		Labelling			
Hazard		Pictogram	Signal Word	Hazard Statement	Precautionary Statement
Class	Category				
Eye Irritation	Category 2A		Warning	H319 Causes serious eye irritation	P264 Wash eyes thoroughly after handling
Specific Target Organ Toxicity - Single Exposure	Category 3		Warning	H335 May cause respiratory irritation	P261 Avoid breathing dust

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Skin Irritation	Category 2		Warning	H315 Causes skin irritation	P264 Wash hands thoroughly after handling
Specific Target Organ Toxicity - Repeated Exposure	Category 2		Warning	H373 May cause damage to organs through prolonged or repeated exposure	P260 Do not breathe dust

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Ingredients	CAS Number	Proportion
Calcium Silicate Hydrate (Tobermorite)	1344-95-2	Approx. 70%
Crystalline Silica (Quartz)	14808-60-7	Approx. 23%
Calcium Sulfate (Gypsum)	7778-18-9	Approx. 5%
Organic additives deemed not to be hazardous	Proprietary	<2%

SECTION 4: FIRST AID MEASURES

Skin	Wipe away excess. Wash off skin with water and a mild soap while removing contaminated clothing and shoes. Seek medical attention if irritation or redness develops.
Eyes	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.
Swallowed	Do not induce vomiting unless directed to do so by medical professional. Rinse mouth with flowing water. Seek medical attention if symptoms persist.
Additional	Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

The supplied **Autoclaved Aerated Concrete** is **Non-combustible**.

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
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Hazards from combustion products	None
Special precautions for fire fighters	Recommend wearing self-contained breathing apparatus and staying upwind.
HAZCHEM Code	None allocated

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency procedures	None
Methods and materials for contamination and clean up	Use proper personal protective equipment as indicated in Section 8. Vacuuming or wet sweeping up dust and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Use with adequate ventilation. Avoid contact with eyes and skin, ingestion and inhalation. All workers should have appropriate personal protection equipment for the worksite conditions. Whenever manually lifting single panels, a minimum of two people should carry each panel and the panel should be carried on its side (not flat). Good lifting techniques and a clean worksite should be maintained.
Conditions for safe storage	Safety assessment and control of storage area should be undertaken. Protect the supplied AAC product against physical damages. Keep away from reactive products. Do not store near food, beverages or smoking materials. Maintain appropriate dust controls during handling.
Incompatibility	None

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards	Total dust (of any type or particle size): TWA – 10 mg/m ³ Respirable dust (of any type or particle size): TWA – 10 mg/m ³ Crystalline silica (quartz) as respirable dust: TWA – 0.1 mg/m ³
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Notes on Exposure Standards	All occupational exposures to atmospheric contaminants should be kept to as low a level as is practical and in all cases to below the Workplace Exposure Standard (WES).
Biological exposure limits	None allocated
Engineering controls	Dust extraction systems should be appropriately filtered as required by local council regulations. The site should also be cleaned at regular intervals to prevent dust accumulation.
Recommended personal protective equipment	
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.
Eye protection	Safety glasses with side shields are recommended. Maintain eyewash facilities at worksite. Eye protection in accordance with AS 1336.
Respiratory protection	For most conditions, no respiratory protection should be needed. Protective respirators should be of class P1 or P2 (to AS/NZS 1715 and AS/NZS 1716) and recommended for dust, at a minimum.
Personal Hygiene	Regularly clean personal protective equipment and wash hands.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Flat
Color	Off-white
Odor	Odorless
PH	9-10
Vapor Pressure	Not available
Vapor Density	Not available
Boiling Point	Not available
Freezing/Melting Point	Not available
Solubility in Water	Insoluble
Flash Point	Not available
Flammable Limits	Not available

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Evaporation Rate	Not available
Octanol / water distribution coefficient:	Not available

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability	Stable and none-reactivity.
Conditions to Avoid	Excessive dust generation during storage and handling.
Incompatible Materials	Specific materials/condition to avoid.
Hazardous Decomposition Products	Not occur.
Hazardous Polymerization	Has not been reported.

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Exposure	Skin contact, Eye contact, Inhalation and Swallow
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Acute Health Effects

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.
Inhalation	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.
Swallow	Although small quantities of dust are not known to be harmful, ill effects are possible if larger quantities are consumed.

Chronic Health Effects

Skin Contact	Repeated drastic contact can cause severe skin damage in the form of skin rash.
Eye Contact	Exposure to airborne dust may cause long-term irritation or inflammation.
Inhalation	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.

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Special Health Effects

Toxic Effects	Prolonged or repeated inhalation may affect lung health.
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SECTION 12: ECOLOGICAL INFORMATION

Eco-toxicity	No recognized unusual toxicity.
Persistence	No information available.
Biodegradability	The supplied Autoclaved Aerated Concrete is not expected to biodegrade.
Mobility	No information available.

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	None allocated
Class and Subsidiary Risk	None
Packaging Group	None
Special Precautions	None
HAZCHEM Code	None allocated

SECTION 15: REGULATORY INFORMATION

Poisons Scheduling	Not scheduled
Calcium Silicate Hydrate (Tobermorite), Crystalline Silica (Quartz) and Calcium Sulfate (Gypsum) are listed in the Australian Inventory of Chemical Substances (AICS).	

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SECTION 16: OTHER INFORMATION

First version issued on 21 Nov 2014
Last revision in 2020 and in compliance with GHS requirements
Review and update in every 5 years
For further information on this product, please contact Sipo Building Solutions Pty Ltd

The information contained in this safety data sheet (SDS) is believed to be accurate and represent the best information currently available to us. The information presented should not be construed as legal, technical, or any other professional advice or service. Users are advised to make their own investigations to determine the suitability of the information for their particular purposes. Since the application based on the contained information in this document may be beyond our control, neither **Sipo Building Solutions Pty Ltd** nor any of its directors or employees should accept responsibility for loss or damage occasioned to any person acting or refraining from action as a result of inappropriate use of the information.