



# SAFETY DATA SHEET

## Autoclaved Aerated Concrete

### SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name:</b>	<b>Autoclaved Aerated Concrete</b>
<b>Other Names:</b>	Aercon AAC, Aercon Closure Blocks, Aercon Floor Panels, Aercon Roof Slabs, Aercon Lintels, Aercon Sill Blocks, Aercon Wall Panels, load bearing and non-load bearing ACC components.
<b>Product Codes/Trade Names:</b>	<b>Autoclaved Aerated Concrete</b>
<b>Recommended Use:</b>	Building Blocks, Noise Suppression, Construction Blocks, Fire Protection
<b>Applicable In:</b>	U.S.
<b>Supplier:</b>	AERCON Florida, LLC
<b>Address:</b>	3701 C.R. 544, Haines City, FL 33844
<b>Telephone:</b>	1-800-830-3171
<b>Email Address:</b>	<a href="mailto:info@aerconacc.com">info@aerconacc.com</a>
<b>Web Site:</b>	<a href="http://www.aerconacc.com">www.aerconacc.com</a>
<b>Facsimile:</b>	
<b>Emergency Phone Number:</b>	1-863-422-6360
<b>Poisons Information Center:</b>	

This Safety Data Sheet (SDS) is issued by the Supplier. The information in it must not be altered, deleted or added to. The Supplier will not accept any responsibility for any changes made to its SDS by any other person or organization. The Supplier will issue a new SDS when there is a change in product specifications and/or Standards, Codes, Guidelines, or Regulations.

### SECTION 2: HAZARDS IDENTIFICATION

**STATEMENT OF HAZARDOUS NATURE:** The product **as supplied** is **non-Hazardous**.

When concrete products are cut, sawed, or crushed, **dust** is created which contains crystalline silica, some of which may be respirable (particles small enough to go into the deep parts of the lung when breathed in), and which would be classifiable as **Hazardous** according to EPA.

The following GHS classifications refer **ONLY** to the dust of these products:

GHS Classification	GHS Signal Word	GHS Pictogram/s
Skin Irritation Category 2 Eye Irritation Category 2A Specific Target Organ Toxicity (Single Exposure) Category 3 Specific Target Organ Toxicity (Repeated Exposure) Category 2	<b>WARNING</b>	

SDS Reference:            SDS-100  
 Date Issued:             06/12/2017

The following GHS Hazard and Precautionary statements refer ONLY to the dust of these products:

GHS Hazard statements	GHS Precautionary statements
H315 – Causes skin irritation H319 – Causes serious eye irritation H335 – May cause respiratory irritation H373 – May cause damage to organs through prolonged or repeated exposure by inhalation	P260 – Do not inhale dust. P264 – Wash thoroughly after handling. P271 – Use only outdoors or in a well-ventilated area. P280 – Wear eye/face protection and protective gloves. P302 + P352 – If on skin, wash with plenty of soap and water. P304 + P340 – If inhaled, remove victim to fresh air and keep in a resting position comfortable for breathing. P305 + P351 + P338 – If in eyes, rinse with water for several minutes. If wearing contact lenses, remove and continue rinsing. P312 – Call a Poison Center or doctor if you aren't feeling well.. P332 + P313 – If skin irritation occurs, get medical advice/attention. P337 + P313 – If eye irritation persists, get medical advice/attention. P362 – Take off contaminated clothing and wash before re-use. P403 + P233 – Store in a well-ventilated place and keep container tightly closed.

Autoclaved Aerated Concrete is classified as **Non-Dangerous Good**.

### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name:	Proportion:	CAS Number:
Calcium silicate hydrate	<60-80%	1344-95-2
Crystalline silica	20-40%	14808-60-7
Portland cement	10-60%	65997-15-1
Additives	<5%	---

**Note:** Cement in concrete contains traces (2-20 ppm) of Chromium VI (hexavalent).

### SECTION 4: FIRST AID MEASURES

The following advice refers mainly to exposure to concrete dust following cutting or crushing of product.

<b>Ingested:</b>	Rinse mouth and lips with water. Do not induce vomiting. If symptoms persist, seek medical attention.
<b>Eyes:</b>	Flush thoroughly with lots of water, while holding eyelids open, for 15 minutes to remove all traces. Seek medical attention, if symptoms such as irritation or redness persist.
<b>Skin Contact:</b>	Remove heavily contaminated clothing. Wash off skin thoroughly with water. Use a mild soap if available. Shower if necessary. Seek medical attention for persistent redness, irritation or burning of the skin.
<b>Inhalation:</b>	Remove to fresh air. Seek medical attention, if persistent irritation, severe coughing, or breathing difficulty occurs.

**SECTION 5: FIRE FIGHTING MEASURES**

<b>Fire Extinguishing media:</b>	Use dry chemical, foam, carbon dioxide or water spray as required for fire on surrounding materials.
<b>Specific Hazards:</b>	None
<b>Protective equipment and Precautions for firefighters:</b>	As required for materials on fire in surrounding areas.
<b>Hazard Chemical Code:</b>	None allocated

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

<b>Precautions: Personal protective equipment: Emergency procedures:</b>	Avoid generating dust. Recommendations on Exposure Controls / Personal Protection (see Section 8 below) should be followed during spill clean-up, if conditions are dusty.
<b>Environmental precautions:</b>	None required.
<b>Methods for cleaning up dust: Containment equipment:</b>	Dust is best cleaned up by vacuum device to avoid making dust airborne. Wetting down area before sweeping up dust may be a useful control measure. Collect and reuse where possible.

**SECTION 7: HANDLING AND STORAGE**

<b>Precautions: Safe handling:</b>	Concrete is a heavy material, and manual handling should be in accordance with the appropriate Manual Handling Regulations and Codes.
<b>Conditions for safe storage:</b>	No special requirements. Safety risk assessments and control of stockpiles and storage areas is required.
<b>Incompatibilities:</b>	None

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Exposure Standards:</b>	<b>Workplace Exposure Standards and Biological Exposure Indices</b> Crystalline silica (quartz): TWA – 0.1 mg/m <sup>3</sup> respirable dust. (≤ 7 microns particle equivalent aerodynamic diameter) Calcium silicate dust: TWA - 10 mg/m <sup>3</sup> Portland cement: TWA – 10 mg/m <sup>3</sup> as inspirable dust Total dust (of any type or particle size): TWA - 10 mg/m <sup>3</sup>
<b>Notes on Exposure Standards:</b>	All occupational exposures to atmospheric contaminants should be kept to as low a level as is workable (practicable) and in all cases to below the Workplace Exposure Standard (WES).  TWA (Time Weighted Average): the time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.
<b>Biological Limit Values:</b>	No biological limit allocated.

<b>ENGINEERING CONTROLS</b>	
<input type="checkbox"/> <b>Ventilation:</b>	Work in the open air and external openings (such as doors and windows in buildings) generally provides adequate ventilation. Local mechanical ventilation or extraction may be required in areas where dust could escape into the working environment. Local dust extraction and collection may be used, if necessary, to control airborne dust levels. Hand tools generate less dust when cutting, drilling or sanding. If power tools are used they should be fitted with efficient and well maintained dust extraction devices. If generated dust cannot be avoided, follow personal protection recommendations.
<input type="checkbox"/> <b>Special Consideration for Repair and Maintenance of Contaminated Equipment:</b>	Recommendations on Exposure Control and Personal Protection should be followed. Where possible vacuum or wash down all gear, equipment or mobile plant prior to maintenance and repair work. If compressed air cleaning cannot be avoided, wear eye and respiratory protection and clothing as listed below.
<b>PERSONAL PROTECTION</b>	
<input type="checkbox"/> <b>Personal Hygiene</b>	Wash hands before eating, drinking, using the toilet, or smoking. Wash work clothes regularly.
<input type="checkbox"/> <b>Skin Protection:</b>	Wear loose comfortable clothing and gloves (standard duty leather palm or equivalent).
<input type="checkbox"/> <b>Eye Protection:</b>	Safety glasses with side shields, safety goggles or a face shield should be worn.
<input type="checkbox"/> <b>Respiratory Protection:</b>	<p>None required if engineering and handling controls are adequate to minimize dust generation and dust exposure. Where engineering and handling controls are not enough to minimize exposure to dust, personal respiratory protection may be required.</p> <p>The type of respiratory protection required depends primarily on the concentration of the respirable crystalline silica dust in the air, and the frequency and length of exposure time. Amount of exertion required during the work, and personal comfort are other considerations in choice of respirator. A suitable P1 or P2 particulate respirator chosen and used, but where high levels of dust are encountered, more efficient cartridge-type or powered respirators or supplied-air helmets or suits may be necessary.</p>

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Off-white blocks
<b>Odor:</b>	None
<b>Odor threshold:</b>	Not applicable
<b>pH:</b>	8-10
<b>Melting point/Freezing point:</b>	Not determined
<b>Initial boiling point and range:</b>	Not applicable

<b>Vapor pressure:</b>	Not applicable
<b>Vapor density:</b>	Not applicable
<b>Specific gravity (Relative density):</b>	0.4-0.7
<b>Solubility:</b>	Not soluble
<b>Evaporation rate:</b>	Not applicable
<b>Partition coefficient (n-octanol/water):</b>	Not applicable
<b>Viscosity:</b>	Not applicable
<b>Flammability:</b>	Not flammable
<b>Flash point:</b>	Not applicable
<b>Upper/lower flammability or explosive limits:</b>	Not applicable
<b>Auto-ignition temperature:</b>	Not applicable
<b>Decomposition temperature:</b>	Not determined
<b>% Volatiles:</b>	0%

## SECTION 10: STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable
<b>Hazardous Reactions:</b>	None
<b>Conditions to avoid:</b>	Dust generation
<b>Incompatible Materials:</b>	None
<b>Hazardous Decomposition Products:</b>	None

## SECTION 11: TOXICOLOGICAL INFORMATION

The following advice refers mainly to exposure to concrete dust following cutting or crushing of product. Health effects information is based on reported effects in use from international reports.

### Health Effects: Acute (short term)

<b>Ingested:</b>	Unlikely under normal industrial use, but ingestion from the dust of this product may result in abdominal discomfort.
<b>Eyes:</b>	Dust is irritating to the eyes causing watering and redness. Exposure to dust may aggravate pre-existing eye conditions.
<b>Skin:</b>	The dust from this product, particularly in association with heat and sweat, may cause irritation. The dust is not absorbed through the skin but, may be mildly irritating and drying to the skin due to its physical characteristics.
<b>Inhaled:</b>	Dust is mildly irritating to the nose, throat and respiratory tract and may cause coughing and sneezing. Pre-existing upper respiratory and lung diseases including asthma and bronchitis may be aggravated.

### Health Effects: Chronic (long term)

<b>Eyes:</b>	Dust may cause irritation and inflammation of the eyes and aggravate pre-existing eye conditions.
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<b>Skin:</b>	Repeated heavy contact with the dust may cause drying of the skin and can result in skin rash (dermatitis) typically affecting the hands. Over time this may become chronic and can also become infected.
<b>Inhaled:</b>	Repeated exposure to the dust may result in increased nasal and respiratory secretions and coughing. Inflammation of lining tissue of the respiratory system may follow repeated exposure to high levels of dust with increased risk of bronchitis and pneumonia.

**Additional Notes**

<b>Long Term Effects:</b>	Long term occupational over-exposure or prolonged breathing-in (or inhalation) of crystalline silica dust at levels above the WES carries the risk of causing serious and irreversible lung disease, including bronchitis, and silicosis (scarring of the lung). It may also increase the risk of other irreversible and serious disorders including scleroderma (a disease affecting the skin, joints, blood vessels and internal organs) and other auto-immune disorders.  Any respirable fraction present in dust generated from this product has not been shown to be a carcinogenic risk.
<b>Special Toxic Effects:</b>	Inhalation of dust, including crystalline silica dust, is considered by medical authorities to increase the risk of lung disease due to tobacco smoking.

**Acute Toxicity Data**

No specific toxicology data available, but toxicity of this product is anticipated to be very low with LD50 >5,000mg/kg.

**SECTION 12: ECOLOGICAL INFORMATION**

<b>Eco-toxicity:</b>	Products as delivered are not biodegradable, have low ecotoxicity and are not regarded as posing any ecological risk. Crushed product and dust may form a mildly alkaline or neutral slurry when mixed with water.
<b>Persistence and Degradability:</b>	Product is persistent and would have a low degradability.
<b>Bio-accumulative potential:</b>	There is no evidence to suggest bioaccumulation will occur.
<b>Mobility in soil:</b>	A low mobility would be expected in a landfill situation.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Autoclaved Aerated Concrete** can be treated as a common waste for disposal or dumped into a landfill site in accordance with local authority guidelines. Crushed product and dust should be kept 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 (see Section 8 above).

**SECTION 14: TRANSPORT INFORMATION**

<b>UN number:</b>	None allocated
<b>UN Proper Shipping Name:</b>	None allocated
<b>Class and Subsidiary Risk:</b>	None allocated
<b>Packaging Group:</b>	None allocated
<b>Special Precautions for User:</b>	None

<b>Hazard Chemical code:</b>	None allocated
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## SECTION 15: REGULATORY INFORMATION

<b>HSNO Approval No:</b>	This is a manufactured article, and is exempt under HSNO
<b>Poisons Schedule:</b>	None Scheduled

## SECTION 16: OTHER INFORMATION

<b>For further information on this product, please contact:</b>			
AERCON Building Products			
<b>Phone:</b>		<b>Fax:</b>	

### ADDITIONAL INFORMATION

#### OSHA CFR Standards References:

CFR 1910-133	Recommended Practices for Occupational Eye / Face Protection
CFR 1910-134	Respiratory Protective Devices (Appendix's A, B-1, B-2, C, D)
CFR 1910-138	Hand Protection

#### Other References:

NOHSC:1008 (2004)	Approved Criteria for Classifying Hazardous Substances
Model Code of Practice	Preparation of Safety Data Sheets for Hazardous Chemicals, December 2011, Safe Work Australia.
Model Code of Practice	Labelling of Workplace Hazardous Chemicals, December 2011, Safe Work Australia.
Model Code of Practice	Managing Risks Of Hazardous Chemicals In The Workplace, July 2012, Safe Work Australia.
WHS	Guidance on the Classification of Hazardous Chemicals under the WHS Regulations, April 2012, Safe Work Australia.
HSNO Cop 8-1	Code of Practice for the Preparation of Safety Data Sheets, September 2006, NZ EPA.
WES	Workplace Exposure Standards and Biological Exposure Indices, 6th Edition, July 2011, NZ Department of Labor.
CCID	Chemical Classification and Information Database (CCID), internet advisory service, EPA.
GHS	Globally Harmonized System of Classification and Labelling of Chemicals (GHS), 3 <sup>rd</sup> revised edition, United Nations, New York and Geneva, 2009.
GHS	Understanding the Globally Harmonized System of Classification and Labelling of Chemicals (GHS), United Nations, New York and Geneva, 2010.

006 SDS Reference: SDS-100

Date Issued: 06/12/2017

**AUTHORISATION**

<b>Reason for Issue:</b>	Update to GHS format
<b>Authorized by:</b>	Safety Improvement Manager -
<b>Date of Issue:</b>	

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