

1. PRODUCT

Product Name: YTONG : Autoclaved Aerated Concrete (A.A.C.)

The following is a list of all AAC Products:

AAC Tongue and Groove Block

AAC U-Form Block

AAC Lintel

AAC Wall Panel

AAC Floor Panel

Product Use: Load bearing and non-load bearing components for interior and exterior walls.

Manufacturer's Information: **YTONG Porobeton A EVE**
130 Syggrou Avenue
7th Floor, 17671, Athens, Greece

Telephone: +30 210-3635515 (Tel) +30 210-3640230 (Fax)

Emergency telephone number: +30 210-7793777

2. COMPOSITION

<u>COMPONENT</u>	<u>% BY WT.</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Quartz Sand	60-80		10 mg/m ³ as crystalline silica (% SiO ₂ + 2)	0.1 mg/m ³ respirable)
Ca ₅ (Si ₆ O ₁₈ H ₂)·4H ₂ O	20-40			

3. HAZARDS IDENTIFICATION

DESCRIPTION: AAC Products

EMERGENCY OVERVIEW: Grinding or cutting of these products may generate nuisance dusts. Acute exposure to dust may cause minor upper respiratory tract, lung, eye, nasal, and skin irritation.

POTENTIAL HEALTH EFFECTS

INHALATION: Prolonged exposure to respirable crystalline silica has been known to cause silicosis, a lung disease which may be disabling. AAC Products generates product dusts and granules which are classified as non-quartziferous indicating that there is no real danger for contracting silicosis when exposed to nuisance dusts generated by AAC Products.

SIGNS/SYMPTOMS OF OVEREXPOSURE EYE CONTACT: Dust can cause mechanical eye irritation.

SKIN CONTACT: Handling may cause dry skin.

INGESTION: Not applicable under normal use. May result in obstruction and temporary irritation of the digestive tract if large quantities are consumed.

INHALATION: Irritation of nose and upper respiratory tract, shortness of breath.

4. FIRST AID MEASURES

INHALATION: Remove to fresh air. If persistent irritation, severe coughing, or breathing difficulty occurs seek medical attention.

EYE CONTACT: Remove contact lenses. Flush eyes, including under eyelids, with large amounts of water for 15 minutes. If irritation persists, seek medical attention.

SKIN CONTACT: Wash affected areas with soap and water. If irritation persists seek medical attention.

INGESTION: May result in obstruction if ingested. Seek medical attention.

5. FIRE-FIGHTING MEASURES

YTONG's AAC is inflammable. You are kindly asked to coordinate fire-fighting measures in the case of fire. In this case no harmful substances are exempted.

FLASH POINT: not applicable

HAZARDOUS COMBUSTION PRODUCTS: none

FLAMMABLE LIMITS: not combustible

AUTOIGNITION TEMPERATURE: not applicable

FIRE EXTINGUISHING MEDIA: not applicable

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.

7. HANDLING AND STORAGE

Allow material to remain in protective covering until use. Store in a dry area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: Wear NIOSH approved respirator when permissible exposure limit to dust may be exceeded during cutting or grinding operations.

EYE PROTECTION: Recommend eye goggles or safety glasses for nuisance dust when cutting or grinding.

SKIN PROTECTION: Protective gloves may be desirable to prevent drying or irritation of hands.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: White or gray blocks or panels.

ODOUR: Little or no odour.

PHYSICAL STATE: solid.

BOILING POINT: not applicable

pH: 10-11

MELTING POINT: not applicable

VAPOR PRESSURE: not applicable

SPECIFIC GRAVITY (H₂O = 1): .4-.7

VAPOR DENSITY: not applicable

SOLUBILITY IN WATER: not soluble

10. STABILITY AND REACTIVITY

STABILITY: stable

INCOMPATIBILITY (MATERIALS TO AVOID): none

CONDITIONS TO AVOID: none

HAZARDOUS DECOMPOSITION PRODUCTS: none

HAZARDOUS PLOYMERIZATION: not applicable

11. TOXICOLOGICAL INFORMATION

YTONG's AAC is not a toxic product. The control of YTONG's dust, as it can be released during processing, as to the content of free, crystalline silicate acid accordingly with the Technical Rules for Dangerous Substances (TRGS 900, Johannesburg Convention) by the Hazardous Substances Research Institute of Occupational Partnership in the mining sector showed that under the definition of the respirable dust of YTONG, is not defined as a powder (dust) containing quartz.

12. ECOLOGICAL INFORMATION

Because of the practical insolubility in water, separation takes place in each process of filtration and sedimentation.

Hazards to water: 1, low hazard to water. The classification was done accordingly to Annex 4 of the Administrative Order for Hazardous Materials Water, since 17th May 1999 (VwVwS). The released materials were identified (calcium sulphate, calcium hydroxide, SiO₂).

Control of YTONG's AAC fractions regarding the acute toxicity to aquatic animals (invertebrates) according to the standard DIN 38412 L 30 from the Laboratory of Applied Biology of Dr. U. Noack that YTONG's AAC has no effect on the aquatic ecotoxicity fauna (invertebrates) in the case of neutral pH.

13. DISPOSAL CONSIDERATIONS

This product is a reusable material. YTONG's AAC can be taken to repositories of Class I waste codes according to the European Waste List (EWC) 17 01 01.

14. TRANSPORT INFORMATION

YTONG's AAC is not a dangerous type of the meaning of transportation.

Land transportation: Non-hazardous
Sea transportation: Non-hazardous
Air transportation: Non-hazardous

15. REGULATORY INFORMATION

Designation according to EC guidelines: The material is not subject to classification according to EC lists.

16. OTHER INFORMATION

EDITION: 1
DATE: JULY 2008

This safety sheet has been prepared based on our present knowledge and in compliance with the provisions of the EC SDS Directive 91/155. The product is not to be used for other purposes than those specified in the Technical Data Sheet (TDS). It is the responsibility of persons who receive this Material Safety Datasheet (MSDS) Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. The information in this SDS is intended to describe the product from the point of view of safety requirements. It is not to be considered as a guarantee of the products' properties.