

# MATERIAL SAFETY DATA SHEET

## Autoclaved Aerated Concrete

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

**Product name:** Autoclaved Aerated Concrete

**Recommended use:** Fire Protection, Building Blocks, Noise Suppression, Construction Blocks.

**Company:** Nuh Yapı Ürünleri ve Makina San. A.Ş.

**Address:** Akyarlar mevki HERKE/KOCAELİ

**Telephone:** +90 0262 511 55 20

**Facsimile:** +90 0262 511 51 82

### SECTION 2: HAZARDS IDENTIFICATION

#### STATEMENT OF HAZARDOUS NATURE:

Autoclaved Aerated Concrete is classified as **Non-Dangerous Goods** according to the criteria of the National Occupational Health and Safety Commission (NOHSC).

#### Risk Phases Safety Phases

**R21/22:** Harmful in contact with skin and if swallowed **S22:** Do not breathe dust

**R48/20:** Danger of serious damage to health by prolonged exposure through inhalation

**S24/25:** Avoid contact with skin and eyes

### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

#### Chemical Name: Proportion: CAS Number:

Calcium silicate hydrate (tobermorite) <60-80% 1344-95-2

Crystalline silica (quartz) 20-40% 14808-60-7

Portland cement 10-60% 65997-15-1

Additives <5% -

### SECTION 4: FIRST AID MEASURES

The following applies to dust from this product:

**Swallowed:** Rinse mouth and lips with water. Do not induce vomiting. If symptoms persist, seek medical attention.

**Eyes:** Flush thoroughly with flowing water, while holding eyelids open, for 15 minutes to remove all traces. If symptoms such as irritation or redness persist, seek medical attention.

**Skin:** 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.

**Inhaled:** Remove to fresh air, away from dusty area. If symptoms persist, seek medical attention.

**Advice to Doctor:** Treat symptomatically.

### SECTION 5: FIRE FIGHTING MEASURES

**Flammability:** This product is non flammable.

**Suitable extinguishing media:** Use extinguishing media (e.g. carbon dioxide, water, foam or dry chemical) and equipment as required if fire in surrounding materials.

**Hazards from combustion products:** None

**Special protective precautions and equipment for fire fighters:** None

**Hazchem Code:** None

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Spills:** Collect and reuse where possible. Avoid generating dust.

## SECTION 7: HANDLING AND STORAGE

**Handling:** Concrete is a heavy material, and appropriate control of manual handling risk is required.

**Storage:** Store in cool, dry, well ventilated area, removed from oxidising agents, and acids. Ensure product is adequately labeled, protected from physical damage and sealed when not in use.

**Incompatibilities:** None

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal Protection

**Skin Protection:** Wear loose comfortable clothing. Direct skin contact should be avoided by wearing long sleeved shirts and long trousers, a cap or hat, and gloves (standard duty leather or equivalent AS 2161). Wash work clothes regularly. Wash hands before eating or smoking.

**Eye Protection:** Ventilated non-fogging goggles should be worn when working in a dusty environment.

**Respiratory Protection:** 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.

Kept in clean storage when not in use.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Off-white blocks

**Odour:** None

**pH, at stated concentration:** 8-10

**Vapour pressure:** Not determined

**Vapour Density:** Not determined

**Boiling Point/range: (°C)** Not determined

**Freezing/Melting Point: (°C)** Not applicable

**Solubility in water:** Not applicable

**Solubility (Other):** Not applicable

**Specific gravity: (H<sub>2</sub>O = 1)** 0.4-0.7

**Evaporation Rate:** Not applicable

**Flammability Limits:** Not applicable

**Flash Point:** Not applicable

**Explosive Properties:** Not flammable

## SECTION 10: STABILITY AND REACTIVITY

**Chemical Stability:** Stable

**Incompatible Materials:** None

**Conditions to avoid:** Dust generation

**Hazardous Decomposition products:** None

**Hazardous Polymerisation:** None

## SECTION 11: TOXICOLOGICAL INFORMATION

The product contains a proportion of respirable free crystalline silica in the quartz component. Crystalline silica (inhaled in the form of quartz or cristobalite from occupational sources) and chromium VI (hexavalent) have been classified by The International Agency for Research on Cancer (IARC) as carcinogenic to humans (Group 1). However the research on this is inconclusive and ASCC/NOHSC has not classified crystalline silica as a carcinogen. The most current research indicates no excess risk of lung cancer or other cancers from using these products.

## SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** Product is non-toxic to aquatic and terrestrial organisms.

**Persistence and Degradability:** Product is persistent and would have a low degradability.

**Mobility:** 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 relevant authority guidelines.

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**

**Transport Requirements:** No special transport requirements are necessary.

**UN number:** None allocated

**Class:** None allocated

**Subsidiary Risk 1:** None allocated

**Packaging Group:** None allocated

**Hazchem code:** None allocated

**DG Class:** None allocated

**EPG:** None

**Incompatibilities:** None

**Proper Shipping Name:** None allocated

**Marine Pollutant:** No

#### **SECTION 15: REGULATORY INFORMATION**

**Poisons Schedule:** None Scheduled

#### **SECTION 16: OTHER INFORMATION**

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Halime KOŞLU

Quality Assurance Cheff