

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.

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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: (H₂O = 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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