


SECTION I. PRODUCT IDENTIFICATION

Product Name : LEICHTBRIC - Autoclaved Aerated Concrete (AAC)
Product Use : Non load bearing components for interior and exterior wall and roof slabs.
Other Names : LeichtBric Blocks, LeichtBric Panels, LeichtBric Lintel, LeichtBric Floorpanel
Recommended Use : Fire Protection, Building Blocks, Noise Suppresion, Construction Blocks
Manufacturers Information : **PT. Broco Aerated Concrete Industry**
 Jl. Raya Serang KM 59, Desa Situterate, Kec. Cikande
 Serang 42186 - Banten
Telephone (0254) 400 137 (Fax)

SECTION II. HAZARDS IDENTIFICATION

The product as supplied is non-Hazardous. Dus from this product is classified as Hazardous. When Concrete products are cut, sawn, crushed, dust is created which contains cyrstalline silica, some of which may be respirable.

Classification	Signal Word	Pictograms
Skin Irritation Category 2 Eye Irritation Category 2A Specific Target Organ Toxicity (Single Exposure) Category 3 Specific Target Organ Toxicity (Repeated Exposure) Category 2	WARNING	

Potential Health Effects :

Eye Contact : It may causes serious eye irritation. Rinse cautiously with clean water for several minutes. If irritation persists, get medical attention.
Skin Contact : It may causes skin irritation. Wash thoroughly after handling
Respiratory Irritation : May cause respiratory irritation. If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing

SECTION III. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS No.	% by Weight
Portland Cement	65997-15-1	28
Silica Sand (Quartz)	14808-60-7	50
Lime	39445-23-3	12
Gypsum	13397-24-5	10
Aluminium Paste	7429-90-5	0.1 - 0.15

SECTION IV. FIRST-AID MEASURES

The Following advice refers mainly to exposure to concrete dust following cutting or crushing of product.
Swallowed : Rinse mouth and lips with water. Do not induce vomiting. If symptoms persist, seek

	medical attention.
Eyes :	Flush thoroughly with flowing clean 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 irritation.
Inhaled :	Remove to fresh air, away from dusty area. If symptoms persist, seek medical attention.

SECTION V. FIRE FIGHTING MEASURES

Suitable Extinguishing Media :	Use carbon dioxide, foam, dry chemical or water spray as required for fire in surrounding materials.
Specific hazards :	None
Special protective equipment and precautions for firefighters:	As required for fire in surrounding materials.

SECTION VI. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures :	Avoid generating dust. Recommendations on Exposure Controls / Personal Protection should be followed during spill clean-up if conditions are dusty.
Environmental precautions :	None required.
Methods and materials for containment and cleaning up :	Collect and reuse where possible. Dust is best cleanup by vacuum device to avoid making dust airborne. Wetting down before sweeping up dust may be a useful control measure.

SECTION VII. HANDLING AND STORAGE

Precautions for safe handling :	Concrete is heavy material, and appropriate control of manual handling risk is required. Manual handling should be in accordance with Manual Handling Regulations and Codes.
Conditions for safe storage :	No special requirements. Safety aspects of stockpiles and storage areas require risk assessment and control.
Incompatibilities :	None.

SECTION VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards :

Notes on Exposure Standards :	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.
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PERSONAL PROTECTION

Personal Hygiene :	Wash hands before eating, drinking, using toilet, or smoking. Wash work clothes regularly.
Skin Protection :	Wear loose comfortable clothing and gloves.
Eye Protection :	Safety glasses with side shields or safety goggles or a face shield should be worn.

Respiratory Protection : None required if engineering and handling controls are adequate to minimize dust generation and dust exposure.

SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point :	N/A	Specific Gravity :	0.5 - 0.7
Vapor Pressure :	N/A	Evaporation Rate :	N/A
Vapor Density (Air = 1) :	N/A	Melting Point :	N/A
Solubility in Water (%wt) :	N/A	Volatiles (by vol.) :	N/A
pH :	9.0 - 10.5	VOC's (g/lit) :	N/A
Appearance and odor :	White solid with no odor		
Flash Point :	N/A		
Flammability (LEL, HEL) :	N/A		
Hazardous combustion products :	None		
Unusual fire and explosion hazards :	None		
Specific Firefighting procedures :	The applicable for surrounding materials and substances		

SECTION X. STABILITY AND REACTIVITY

Stability :	Stable
Conditions to avoid :	Dust generation
Incompatible materials :	None, this is an inert material
Hazardous decomposition products :	None
Hazardous polymerization :	None

SECTION XI. HEALTH HAZARD DATA

EFFECTS OF ACUTE OVEREXPOSURE :

No acute effects are related to the use of this product.

EFFECTS OF CHRONIC OVEREXPOSURE :

Long-term overexposure to high concentration of dust without the use of a dust mask may reduce respiratory function in some individuals.

INHALATION :

When cutting the material, dust particles are generated. Respiratory tract must be protected. Irritation of nose and upper respiratory tract, shortness of breath. Prolonged inhalation of excessive silica dust may reduce lung function.

EYES :

No specific health hazards are related to this route of exposure. When cutting the material, eyes must be protected against dust generated.

SKIN :

Handling may cause dry skin. Avoid contact to skin

INGESTION :

No applicable under normal use. May result in obstruction and temporary irritation of the digestive tract if

large quantities are consumed.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE :

Unknown

SECTION XII. ECOLOGICAL INFORMATION

Eco-toxicity : 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.

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

Bioaccumulative potential : There is no evidence to suggest bioaccumulation will occur.

Mobility in soil : A low mobility would be expected in a landfill situation.

SECTION XIII. DISPOSAL CONSIDERATION

Autoclaved Aerated Concrete can be treated as a common waste 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.

SECTION XIV. TRANSPORT INFORMATION

Class and Subsidiary Risk : None allocated

Packaging Group : None allocated

Special precautions for user: None

SECTION XV. REGULATORY INFORMATION

Poison schedule : None

Exposures by inhalation to high levels of dust may be regulated under Hazardous Substances Regulations as they are applicable to Respirable Crystalline Silica, requiring exposure assessment, controls and health surveillance.

SECTION XVI. OTHER INFORMATION

For further information on this product, please contact :

PT. Broco Aerated Concrete Industry

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Authorized by : Plant Manager of PT. Broco Aerated Concrete Industry

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END OF MSDS

