



# SAFETY DATA SHEET

## AMBEX ANCHORING CAPSULES - AAC

### 1 PRODUCT AND COMPANY IDENTIFICATION

#### PRODUCT NAME

Ambex Anchoring Capsules - AAC for use in anchoring systems.

#### SUPPLIER

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### 2 COMPOSITION/INFORMATION ON INGREDIENTS

#### CHEMICAL NATURE

Substance obtained from dry premixing calcium aluminate cement, aggregates, fillers and additives. The dry premix is enclosed in a permeable capsule (cartridge) sock. The major chemical elements are  $Al_3O_3$ ,  $CaO$ ,  $SiO_2$ ,  $Fe_2O_3$ .

#### CAS NUMBER

(Chemical Abstracts Service)  
Not Applicable.

#### EINECS NUMBER

(European Inventory of Existing Commercial Substances)  
Not Applicable.

#### COMPONENTS CONTRIBUTING TO THE HAZARD

Declaration and classification of components according to the Commission Directives of the European Communities 91/155/EEC and 93/21/EEC:

	Classification	Hazard labeling
Calcium aluminate premix	None	None

Does not contain free lime or free crystalline silica (such as quartz, tridymite or cristobalite) in measurable amounts.

### 3 HAZARDS IDENTIFICATION

#### MOST IMPORTANT HAZARDS

In contact with water, an alkaline solution occurs (pH 11-11.5). In spite of the pH level, the alkaline reserve is limited, and the product has not been classified as *irritant* according to criteria defined in the EEC directives (93/21/EEC).

If the dry premix is removed from the capsule (cartridge) "sock", a dust problem may occur in confined areas. It is regarded as nuisance dust without any known specific effects to health.

#### SPECIFIC HAZARDS

The dry premix in an AAC capsule, reacts chemically and hardens, with the water which it has absorbed after having been soaked. The reaction is exothermic resulting in a temperature rise. In large quantities the temperature may increase enough to cause a risk of burns.

### 4 FIRST AID MEASURES

#### INHALATION

Remove person to fresh air. If symptoms persist, seek medical attention.

#### SKIN CONTACT

Remove contaminated clothing and wash affected area with soap and water.

#### EYE CONTACT

Flush eyes with plenty of clean water. If symptoms persist, seek medical attention.

#### INGESTION

Wash out mouth with water and give plenty of water to drink.

### 5 FIRE-FIGHTING MEASURES

The product is not flammable and will not support flame. It does not promote combustion with other materials.

#### EXTINGUISHING MEDIA

No specific recommendations or restrictions.

### 6 ACCIDENTAL RELEASE MEASURES

#### PERSONAL PRECAUTIONS

See section 7 and 8.

#### ENVIRONMENTAL PRECAUTIONS

Avoid emission of dust.

#### METHODS OF CLEANING UP

For large amounts, preferably use dry methods, while avoiding dust exposure.  
Do not empty material into drains, sewers or water courses as the material hardens in contact with water.

### 7 HANDLING AND STORAGE

#### TECHNICAL MEASURES AND PRECAUTIONS

Common procedures for handling and storage of industrial powder products with particular attention to suppression of dust and spillage, to avoid unnecessary exposure.

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Store in dry conditions, preferable above ground protected by shrink wrapping.

#### SAFE HANDLING ADVICE

No particular precautions.

#### INCOMPATIBLE PRODUCTS

Contact with water or water vapour during storage will hydrate the product which will cause lumps and affect the performance.

#### PACKAGING MATERIALS

No special restriction with respect to safety.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### ENGINEERING MEASURES

Mechanical ventilation is recommended wherever feasible for evacuation of dust during handling operations (discharging, mixing, conveying, packing etc.

#### CONTROL PARAMETERS

Generally, the following occupational exposure limits defined for non specified nuisance dust are applicable:

	8h time weighted average (TWA)
Total dust	10 mg/m <sup>3</sup>
Respirable dust	5 mg/m <sup>3</sup>

National regulations should be consulted for verification of these limit values.

#### PERSONAL PROTECTIVE EQUIPMENT

Dust proof goggles should be worn whenever there is a risk of powder or wet mixture entering the eyes.

Protective clothing is recommended, including waterproof gloves, and boots.

Suitable respiratory protection should be worn when the conditions are such that the personal exposure is estimated to approach or exceed the stated limits.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid
Form:	Granular powder
Colour:	Grey-Brown
Odour:	None
pH:	11-11.5 (10% dispersion in water)
Melting point:	< 400° C
Flash point:	Not applicable
Explosion properties:	Not applicable
Density:	Approximately 3090 kg/m <sup>3</sup>
Solubility:	≤ 2% soluble component*
Bulk density:	Approximately 1165 kg/m <sup>3</sup>

\* Solubility of unhydrated calcium aluminates is approximately 3.5g/l

## 10 STABILITY AND REACTIVITY

#### STABILITY

In a dry environment the product is chemically stable.

When mixed with water it reacts chemically and hardens, forming hydrates based on calcium aluminate. This reaction is exothermic.

#### FOR MORE INFORMATION

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HAZARDOUS DECOMPOSITION PRODUCTS  
None.

## 11 TOXICOLOGICAL INFORMATION

#### ACUTE TOXICITY

None.

#### LOCAL EFFECTS

May cause local irritation to eye, throat or skin, but is not classified as *irritant* according to EEC legislation.

#### SENSITIZATION AND CHRONIC TOXICITY

Does not contain measurable amounts of soluble Chromium(VI).

## 12 ECOLOGICAL INFORMATION

#### Possible environmental effects

After hydration (a few hours or days in moist conditions) the product is stable in soil and in water, with a negligible mobility of its constituents.

## 13 DISPOSAL CONSIDERATIONS

#### Waste from residues or contaminated packaging

No special precautions.

Bags of unused material or empty contaminated packaging, as well as hardened residues may be disposed by landfill, if in accordance with local or national disposal regulations.

## 14 TRANSPORT INFORMATION

#### Internal regulations

Not classified as hazardous according to international transport regulations.

## 15 REGULATORY INFORMATION

#### Hazard and safety label

Classification according to European Commission Directive 93/21/EEC of 27 April 1993:

Classification	None*
Symbol	None
R-phrases	None
S-phrases	None

\* Not classified as a dangerous material

## 16 OTHER INFORMATION

This Safety Data Sheet follows:

- The international standard *ISO 11014-1: Safety data sheet for chemical products*.
- *Part 1: Content and order of sections. The Commission Directive of the European Communities 91/155/EEC.*

Please note, that Capsules CAC and M3RR are now marketed under the brand name AMBEX Anchoring Capsules - AAC.

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