

Health and Safety Recommendations for BATICHANVRE ® binder from St Astier

Product and Manufacturer Identification

- **Product:** *An hydraulic binder with additives for working with hemp aggregates*

- **Use:** binder for building mortars

- **Manufacturer:**

Name : **Group C.E.S.A**

Adresse : **24110 St Astier, France**

Ph: **05.53.54.11.25**

Fax: **05.53.04.67.91**

- **Emergency Calls:**

France - ORFILA, Ph: 01.45.42.59.59

UK – The Lime Line Ph: 08007839014

Ireland – The Traditional Lime Co. TPh: 05991.51750

- **Components**

A blend of Natural Hydraulic Lime, hydrated lime, hydraulic binder and additives. It has the property of hardening in contact with water. The hydrated lime hardens in contact with air by re-absorbing CO₂. Contains a small quantity of additives.

Chemical denomination	EINE CS number	CAS number	Classification	Concentration or Concentration range
Calcium hydroxyde	215-137-3	1305-62-0	X i R 41	≥ 3 %
Hydraulic binder	266-043-4	65997-15-1	X i R36/37 /38-43	≥ 20 %

IDENTIFICATION OF DANGERS

Risk symbol	Principal risks for people and the environment
X_i	<ul style="list-style-type: none"> • Hydraulic lime is irritant for eyes, respiratory track and mucous membranes • Risk of severe eye damage in cases of splashes of powder or wet mortar in the eyes • Once hydrated, the lime increases alcalinity and therefore can irritate or dry the skin • In cases of significant ingestion the product is caustic for the digestive tract. It can cause burning of the mouth, esophagus and stomach • the product does not present particular risks for the environment subject to the Handling Precautions below and the respect of national or local disposal directives.

First Aid Measures

Contact with eyes	<ul style="list-style-type: none"> • Wash immediately and abundantly with clean water and consult an ophtalmologist.
Contact with the skin	<ul style="list-style-type: none"> • Wash the affected area abundantly with clean water Afterwards wash again with soap or light detergent • Wear protective clothing
Inhalation	<ul style="list-style-type: none"> • Wash nose and throat with clean water • Breathe fresh air. • If necessary consult a doctor.
Ingestion	<ul style="list-style-type: none"> • Wash mouth, drink water and consult a doctor

ANTI FIRE MEASURES

The product is not flammable.

All fire extinguishing agents can be used.

Above 950°C the lime will produce CO² emission.

ACCIDENTAL SPILLAGE MEASURES

Individual precautions	<ul style="list-style-type: none"> • Avoid all contacts with the eyes • Avoid contact with the skin • Handle the product with appropriate gloves • Wear a mask if required
Protection of the environment	<ul style="list-style-type: none"> • Avoid disposal in surface waters, sewers and drains.
Cleaning and recovery methods	<ul style="list-style-type: none"> • Avoid creating dust when collecting loose product • Once hardened the product can be collected as a normal construction debris • The hardening process is variable in accordance with weather conditions and water addition but is never below 1 hour

STORAGE AND HANDLING PRECAUTIONS

STOCKING	HANDLING
Keep away from children reach.	<ul style="list-style-type: none"> • Wear appropriate gloves • Avoid inhaling the dust, wearing a mask if necessary • To avoid contact with the eye, wear suitable safety goggles • Manual handling: observe local health and safety directives

Control procedures for workers' exposure and type of equipment for individuals' protection.**Exposure control:**

Total Dust Limit:	10 mg/m ³
Air borne dust limit:	5 mg/m ³

Individuals' protection:

Inhalation protection:	Wear appropriate mask
Hands protection:	Wear appropriate gloves
Eyes protection:	Wear goggles to avoid risk of splashes in the eyes.
Skin protection:	Wear suitable protective work clothing.

PHYSICAL AND CHEMICAL PROPERTIES

Aspect:	grey or white powder
Odor:	None
Fusion Point:	> 1000°C
Ignition Temperature	Not Flammable
Danger of explosion:	Not Explosive
Solubility in Water	> 1.5 g/l at 20°C
PH	Between 12 and 13 (in saturated solution)
Apparent volumetric mass:	0.65 g/cm ³ at 20°C
Absolute volumetric mass:	2.6 g/cm ³ (20°C)
Granulometry	20 to 30% fines < 0.05mm

STABILITY AND REACTIVITY

Stability:	The product is stable at all temperatures
Conditions to avoid:	Storage in damp areas to avoid an hydraulic set
Materials to avoid:	Reacts strongly with acids, generating CO ²

TOXICOLOGICAL INFORMATION

Inhalation:	Inhalation can cause irritation of the respiratory ways and of the nasal mucose. In extreme cases the mucose can be eroded
Ingestion:	Large ingestion can cause burining of the mouth, exophagus ad stomach
Skin contact:	Can irritate the skin due to its high alcalinity
Contact with the eyes:	Can cause irritation of the eye and the pupil Prolongued rinsing is necessary
Cronic skin pathology	Prolongued exposure without adequate protection (gloves) can cause dermatological irritation
Cancerogenicity	Not listed
Genotoxicity	Not listed

ECOLOGICAL INFORMATION

Mobility:	None
Potential bio-accumulation:	None
Ecotoxicity:	<ul style="list-style-type: none"> • the product is an alkaline material that an increase in the pH of water brings • The carbonation process, with time, re-constitutes Calcium Carbonate (CaCO₃) which is a neutral material in ecological terms

DISPOSAL INFORMATION

The product in its hardened state can be disposed as a normal construction debris.
Dispose of used bags in authorised refuse areas in accordance with local directives.

TRANSPORT INFORMATION

The product is not considered hazardous in accordance with ADR, RID, IMDG and IATA regulations.
In general, avoid spillages of powder during transport.

NOTE:

ADR: European agreement on road transport of dangerous substances

RID: International rail transport regulation for dangerous substances.

IMDG: International maritime dangerous goods code.

IATA: International Air Transport Association.

COMPULSORY INFORMATION

Danger symbol:	X_i irritant
Principal constituent:	Calcium hydroxide
Phrases R:	<ul style="list-style-type: none"> • R36/37/38- irritant for the eyes, respiratory ways and the skin • R41 - risk of severe lesion to the eyes • R43 – can damage the skin
Phrases S:	<ul style="list-style-type: none"> • S2- keep away from childrens' reach • S24/25 – avoid contact with the skin and the eyes • S26 in case of contact with the eyes, wash immediately and abundantly with clean water and consult a specialist • S37 – wear appropriate gloves • S39 - wear protective eye goggles.

OTHER INFORMATION

Conforms with Norm NF ISO 11014-1

It is recommended to provide instructions to personnel regarding the risks and precautions to observe in case of accident.

The recommendations in this document are based on our knowledge as it stands at the time of issue related to this product. They are given in good faith.

The User attention is drawn to the eventual risks caused by the utilisation of a product for different purposes from the ones for which the product has been envisaged. It is the responsibility of the User to adopt the appropriate safety measures and to apply all regulations current at the time of use. The prescriptions contained in this document are given to help the User to fulfill its obligations. The precautions listed cannot be considered as exhaustive.

See also: [Batichanvre Data Sheet](#)

For further Guidance, contact your St Astier Distributor.

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