

St. Astier Limes and Products

ECOMORTAR - HEALTH AND SAFETY RECOMMENDATIONS

PRODUCT AND MANUFACTURER IDENTIFICATION

1.1 : **Product** : ready mixed mortar in 35 kg. bags
Commercial name : EcoMortar

1.2 : **Manufacturer**

Name : Dordognaise (C.E.S.A. Group)
Adresse : 24110 St Astier, France
Tél : 05.53.54.11.25 *Fax* : 05.53.04.67.91

1.3 : **In case of urgency**

France - ORFILA, Tel : 01.45.42.59.59
UK – The Lime Line 0800.7839014
Ireland – The Traditional Lime Co. 05991.51750

- **Components**

EcoMortar is a ready mixed mortar made with natural hydraulic lime, siliceous and calcareous sand, additives and pigments when required.

- **IDENTIFICATION OF DANGERS**

EcoMortar is not classified as a « dangerous product » as defined in annex VI of the directive 67 / 548 / CEE. However, because of its alkaline properties in solution, some handling precautions are necessary.

Risk symbol	Principal risks for people and the environment
Xi	<ul style="list-style-type: none"> • EcoMortar 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, EcoMortar increases alkalinity and therefore can irritate or dry the skin. • In cases of significant ingestion EcoMortar is caustic for the digestive tract. It can cause burning of the mouth, esophagus and stomach. • EcoMortar does not present particular risks for the environment subject to the recommendations in section XIII and the respect of national or local disposal directives.

- **First Aid (urgent cases).**

<i>Contact with eyes</i>	<ul style="list-style-type: none"> • <i>Wash immediately and abundantly with clean water and consult an ophthalmologist</i>
<i>Contact with the skin</i>	<p><i>In case of prolonged contact with the skin :</i></p> <ul style="list-style-type: none"> • <i>If EcoMortar is in a dry state, eliminate as much as possible the dust. Wash abundantly with clean water.</i> • <i>If EcoMortar is in a wet mortar state, wash abundantly with clean water.</i> • <i>Make sure that no product is left between skin and clothing or accessories (watches, shoes etc...).</i>
<i>Inhalation</i>	<p><i>In case of inhalation of large amounts of dust :</i></p> <ul style="list-style-type: none"> • <i>Bring the affected person outside the dusty area. Consult a doctor in case of respiratory problems.</i>

Ingestion	<p><i>In cases of significant ingestion :</i></p> <ul style="list-style-type: none"> • <i>Rinse mouth, drink potable water and consult a doctor.</i>
------------------	--

- **ANTI FIRE MEASURES**

EcoMortar is not flammable.

In case of nearby fire use any extinguishing agents (as required by the nature of the fire).

- **ACCIDENTAL SPILLAGE MEASURES**

<i>Individual precautions</i>	<ul style="list-style-type: none"> • <i>Avoid all contacts with the eyes.</i> • <i>Avoid contact with the skin.</i> • <i>Avoid dust inhalation.</i> • <i>In case of airborne dust use the appropriate anti dust mask.</i> • <i>Handle the product with the appropriate gloves.</i>
<i>Protection of the environment</i>	<ul style="list-style-type: none"> • <i>Do not dispose of EcoMortar in sewers, drains and on surface waters.</i>
<i>Cleaning and recovery methods.</i>	<ul style="list-style-type: none"> • <i>Use preferably collecting methods so as to avoid the creation of dust in the air.</i> <p><i>After collection, EcoMortar can be disposed as normal building waste. EcoMortar hardens approximately 60 to 90 minutes after mixing with water.</i></p>

• **USAGE, STOCKING AND HANDLING PRECAUTIONS.**

STOCKING	USAGE	HANDLING
<ul style="list-style-type: none"> Keep away from children reach. 	<ul style="list-style-type: none"> Avoid creating airborne dust. If unavoidable, wear an anti dust mask. Avoid direct contact of EcoMortar with eyes, skin and mucous membranes. Wearing security glasses is recommended. 	<ul style="list-style-type: none"> The handling of EcoMortar bags has to be done in such a way as to avoid the creation of airborne dust. Handle following local health and safety directives.

• **CONTROL PROCEDURES FOR WORKERS' EXPOSURE AND TYPE OF EQUIPMENT FOR INDIVIDUALS' PROTECTION.**

8.1 – *Exposure control :*

- *Exposure limits*

<i>Total dust</i>	<i>10 mg/m³</i>
<i>Cellular dust</i>	<i>5 mg/m³</i>

8.2 – *Individuals' protection :*

Respiratory protection : *In the presence of airborne dust, the use of an anti dust mask is recommended.*

Hands protection : *Wear adequate gloves..*

Eyes protection : *Wear protective goggles in case of airborne dust or risk of splashes of powder or wet mortar.*

Skin protection : *Wear adequate work clothing covering the arms and extend it to the hands by wearing gloves. If working standing on knees, wear knee pads.*

Skin protective creams can also be used.

• **PHISICAL AND CHEMICAL PROPERTIES.**

Colour :	<i>White or pigmented powder</i>
Odor :	<i>none</i>
PH in water solution :	<i>Alcaline between 12 et 13</i>
Fusion temperature ::	<i>> 1000°C</i>
Apparent volumetric mass :	<i>1,35 g/cm³ at 20°C</i>
Explosion point :	<i>Not applicable</i>
Flammable point :	<i>Not applicable</i>
Danger of explosion :	<i>None</i>
Granulometry :	<i>Type G = 0-2.5 mm Type F = 0 -1.8 mm Type EF = 0 – 1mm Type C TF = 0 – 1.3mm</i>

• **STABILITY AND REACTIVITY**

Stability :	<i>The product is stable</i>
Conditions to avoid :	<i>Humidity can cause the hardening of the product</i>
Materials to avoid :	<i>None</i>
Dangerous decomposition products :	<i>None</i>

• **TOXICOLOGICAL INFORMATION**

Inhalation :	<ul style="list-style-type: none">• <i>EcoMortar can cause the irritation of the respiratory track and inflammation of nasal mucous membranes. In extreme cases the erosion of mucous membranes is possible</i>• <i>In cases of significant ingestion EcoMortar is caustic for the digestive tract. It can cause burning of the mouth, esophagus and stomach.</i>• <i>Due to its alcalinity in solution, EcoMortar can</i>
Ingestion :	
Skin contact :	

<i>Contact with the eyes :</i>	<i>irritate the skin.</i>
<i>Chronic hands, skin disorders :</i>	<ul style="list-style-type: none"> • <i>A prolonged contact with EcoMortar could cause burning of the skin.</i> • <i>EcoMortar can cause irritation and severe lesion of the pupil. Prolongued washing and ophthalmologic consultation are recommended</i> • <i>Prolongued exposure without adequate protection (gloves) can cause dermatitis.</i>
<i>Cancer risks :</i>	<ul style="list-style-type: none"> • <i>Not found</i>
<i>Genotoxicity :</i>	<ul style="list-style-type: none"> • <i>Not found</i>

• **ECOLOGICAL INFORMATION**

<i>Mobility :</i>	<ul style="list-style-type: none"> • <i>None</i>
<i>Potential bio-accumulation :</i>	<ul style="list-style-type: none"> • <i>None</i>
<i>Ecotoxicity :</i>	<ul style="list-style-type: none"> • <i>In case of accidental dispersion in waters, the EcoMortar powder could moderately increase the water pH.</i>

• **DISPOSAL INFORMATION**

After hardening, as a mortar waste, EcoMortar can be disposed of together with other construction site waste and stockpiled in discharge sites following the regulations current at the time of disposal.

• **TRANSPORT INFORMATION**

Classified as non hazardous merchandise in accordance with transport regulations.

• **COMPULSORY INFORMATION**

<i>Danger symbol :</i>	<ul style="list-style-type: none"> • <i>X_i irritant</i>
<i>Principal components :</i>	<ul style="list-style-type: none"> • <i>Calcareous sand, NHL lime</i>
<i>Phrases R :</i>	<ul style="list-style-type: none"> • <i>R36/37/38- irritant for the eyes,</i>

<i>Phrases S :</i>	<i>respiratory tracks and skin.</i> <ul style="list-style-type: none"> • <i>R41 - risks of severe eyes lesion.</i>
<i>Professional illnesses :</i>	<ul style="list-style-type: none"> • <i>S2 keep away from childrens' reach</i> • <i>S24/25 avoid contact with skin and eyes.</i> • <i>S26in case of contact with the eyes wash immediately and abundantly with clean water and consult a specialist.</i> • <i>S37 wear adequate gloves.</i>
<i>Special medical surveillance :</i>	<ul style="list-style-type: none"> • <i>Social security code : not applicable</i>
<i>Special medical surveillance :</i>	<ul style="list-style-type: none"> • <i>Not envisaged</i>

• **OTHER INFORMATION**

NONE

The recommendations in this document are based on our knowledge as it stands today related to Natural Hydraulic Limes,sands and additives. They are given in good faith.

Under no circumstance the information can be considered as a quality guarantee.

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.

February 2007