Health and Safety Recommendations for Lithomex from St Astier

See also: Lithomex Data Sheet

Product and Manufacturer Identification

- **Product:** a blend of Natural Hydraulic Lime and hydraulic binder, filler, lightweight filler and additive
  Use: stone repair mortar
- **Manufacturer:**
  Name : Group C.E.S.A
- **Addresse : 24110 St Astier, France**
  Tél : 05.53.54.11.25
  Fax : 05.53.04.67.91
- **In case of Urgency:**
  France - ORFILA, Tél : 01.45.42.59.59
  UK – The Lime Line Tel: 0800 7839014
  Ireland – The Traditional Lime Co. Tel : 05991 51750

Chemical Name	EINE CS number	CAS number	Classification	Concentration or Concentration range
Calcium hydroxyde	215-137-3	1305-62-0	X_i R 41	≤ 20 %
Hydraulic binder	266-043-4	65997-15-1	X_i R36/37 /38-43	≤ 20 %
Filler	Not listed	1318-00-9	/	≤ 5 %

IDENTIFICATION OF DANGERS

Risk symbol	Principal risks for people and the environment
$\mathbf{X_i}$	• Hydraulic limes and binders are 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, Lithomex increases its Ph and therefore can irritate or dry the skin • In cases of significant ingestion limes and hydralic binders are caustic for the digestive tract. It can cause burning of the mouth, esophagus and stomac • Lithomex 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)

Contact with eyes	Wash immediately and abundantely with clean water and consult an ophtalmologist.
Contact with the skin	Wash the affected area abundantely with clean water. Afterwards wash again with soap or light detergent. Protect clothing.
Inhalation	Wash nose and throat with clean water. Breathe fresh air. If necessary consult a doctor
Ingestion	Wash mouth, drink some water and consult a doctor.

ANTI FIRE MEASURES

The product is not flammable.
All fire estinguishing agents can be used. Above 950°C the lime will produce CO_2 emission.

ACCIDENTAL SPILLAGE MEASURES

Individual precautions	• Avoid all contacts with the eyes • Avoid contact with the skin • Handle the produsct with appropriate gloves.
Protection of the environment	Avoid disposal in surface waters, sewers and drains.
Cleaning and recovery methods	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.

USAGE, STOCKING AND HANDLING PRECAUTIONS

STOCKING	**HANDLING**
Store away from acids and from the reach of children	• 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 sagety directives

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

Exposure control:

Total Dust:	10mg/m^3
Cellular dust:	5mg/m^3

Individuals' protection:

Respiratory 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

Colour	White or pale grey powder
Odor:	none
PH in water solution:	Between 12 and 13 (in saturated solution)
Fusion temperature:	1000°C
Apparent volumetric mass:	0.65g/cm^3 at 20°C
Danger of Explosion:	Not explosive
Solubility in Water	> 1.5 g/l at 20°C
Absolute volumetric mass	2.6g/cm^3 at 20°C
Apparent volumetric mass	0.65g/cm^3 at 20°C

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

Not toxic.
Refer to Identification of Dangers and First Aid Measures above for effects on health.

ECOLOGICAL INFORMATION

Mobility	None
Potential bio-accumulation	None
Ecotoxicity:	Lithomex in powder is an alcaline material that brings the water pH to 12.4 in saturated solution In hardened form Lithomex is stable and its components are isoluble

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

Lithomex is classified as a non dangerous material.

COMPULSORY INFORMATION

Danger symbol	Xi irritant
Principal components	Calcium hydroxide
Phrases R:	• 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	• 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 abundantely with clean water and consult a specialist • S37 – wear appropriate gloves • S39 - wear protective eye goggles.

IMPORTANT NOTE:

The information in this document are based on our kowledge as it stands at the time of issue related to this product. 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 appropiate 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: Lithomex Data Sheet

For further Guidance, contact your St Astier Distributor.

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