Health and Safety Recommendations for Hourdex Multi Use Binder from St Astier

See also: Hourdex Data Sheet

Product and Manufacturer Identification

• **Product:** Hydrated Natural Hydraulic Lime 35 kg bags, grey cement and additives as per EN/BS 459.1.

Commercial Name: Hourdex

• Manufacturer:

Name: *Dordognaise (C.E.S.A. Group)*Addresse: 24110 St Astier, France

Tel: 05 33 54 1125 Fax: 05 33 04 6791 • In case of Urgency:

France: - ORFILA, Tel: 01 45 42 5959 UK: - The Lime Line 0800 7839014

Ireland:– The Traditional Lime Co. 05991 51750

Components

LIME CEMENT
CAS No : 1305-62-0 65997-15-1
Name (ref Dir. EU) : calcium hydroxyde Portland White

Symbol : Xi

Risk phrase : R-41 R36/37/38-43 EINCECS No. : 215-137-3 266-043-4

IDENTIFICATION OF DANGERS

Risk symbol	Principal risks for people and the environment
$\mathbf{X}_{_{\mathrm{i}}}$	 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, Hourdex increases alcalinity and therefore can irritate or dry the skin. In cases of significant ingestion Hourdex is caustic for the digestive tract. It can cause burning of the mouth, esophagus and stomac. Hourdex 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 Measures

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. Wear protective clothing
Inhalation	Wash nose and throat with clean water. Breathe fresh air. If necessary consult a doctor.
Ingestion	Wash mouth, drink 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 CO₂ emission.

ACCIDENTAL SPILLAGE MEASURES

Individual precautions	 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	• Do not dispose of Hourdex in sewers, drains and on surface waters
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
Keep away from children reach.	 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 Limit:	10 mg/m ³
Air bourne dust limit:	5 mg/m ³

Individuals' protection:

Inhalation protection	Wear appropriate mask
Hand 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 Powder
Odour	None
Fusion temperature	> 1000°C
Ignition Temperature	Not Flamable
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/cm³ (20°C)
Absolutre 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 and stomac
Skin contact:	Can irritate the skin due to its high alcalinity
Contact with the eyes	Can cause irritation of the eye and the pupil Proplongued rinsing is necessary
Cronic skin pathology Prolongued exposure without adequate protection (eg. gloves) can cause dermatological irritation	

ECOLOGICAL INFORMATION

Mobility:	None
Potential bio-accumulation:	None
Ecotoxicity:	 Hourdex is an alcaline material that brings the water pH to 12.4 in saturated solution 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 of as a normal construction debris
- Dispose of used bags in authorised refuse areas in accordance with local directives.

TRANSPORT INFORMATION

Hourdex is not subject to 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

Risk Symbol	X, irritant
Principal Constituent	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:	 R36/37/38- irritant for the eyes 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.

OTHER INFORMATION: None

The recommendations in this document are based on our kowledge 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.

See also: HOURDEX Data Sheet

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