

Health and Safety Recommendations for TRADECO HL 3.5 from St Astier

Product and Manufacturer Identification

- **Product:** hydrated Natural Hydraulic Lime, hydraulic binder and additives as per EN/BS 459.1
- **Use:** binder for building mortars
- **Manufacturer:**
Name: C.E.S.A. Group
Adresse: 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

Chemical name	No. EINECS	No. CAS	Classification	Concentration or concentration range
Calcium hydroxide	215-137-3	1305-62-0	Xi R 41	≥ 3%
Hydraulic binder	266-043-4	65997-15-1	Xi 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, TRADECO increases alkalinity 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 recommendations in section XIII 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 ophthalmologist
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
Environmental protection	<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

STORAGE	HANDLING
Store away from the reach of children. Keep bags dry Reseal open bags immediately after use.	<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 bourne 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

Aspec	white powder
Odor:	None
Fusion temperature:	> 1000°C
Ignition Temperature	Not Flammable
Danger of explosion:	Not Explosive
Solubility in Water	> 1.5 g/l at 20°C
PH in water solution:	Alcaline 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 and 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 Proplongued rinsing is necessary
Cronic skin pathology:	Prolongued exposure without adequate protection (gloves) can cause dermatological irritation

ECOLOGICAL INFORMATION

Mobility:	None
Potential bio-accumulation:	None
Ecotoxicity:	The product is an alkaline material that brings the water pH to 12.4 in saturated solution

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 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

Danger symbol:	X_i irritant
Principal components:	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.

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.

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: [Tradeco Data Sheet](#)

For further Guidance, contact your St Astier Distributor.

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