

1. Identification of the mixture and of the company or undertaking.

1.1. Product identifier.

Product name

DRY CEMENT CONCRETE

	Unique Formula Identifier (UFI)
"HNE-10" "HNE-15", "HNE-20"	P6U7-D1SG-U006-362K
"HA-25", "HA-25_ WHITE", "HA-25_8mm", "HA25/8mm - Water-soluble bag", "HA25 Fluid Consistency", "HA-30"	70U7-D1DQ-7006-SGW6
"HLE-20", "HLE-25"	5TS7-91R4-X008-HQRP
HA-25/AC	V3T7-D1DT-500K-8QY6
"FAST&EASY"	QCU7-E159-F005-EV7S

1.2. Identified relevant uses of the mixture and uses advised against.

Prepared in the factory with raw materials in accordance with the provisions of standard UNE-EN 206:2013+A1 and the Instruction for Structural Concrete. -EHE-08 (Royal Decree 1247/2008) duly certified in accordance with applicable regulations and, where applicable, in accordance with EC standards, bagged in a dry state so that the user, by adding water in the indicated proportion and kneading it, obtains concrete of adequate and consistent quality for general construction work.

1.3. Supplier details on the safety data sheet.

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1.4. Emergency telephone number.

National Institute of Toxicology: +34 915 62 04 20

2. Hazard identification.

2.1. Classification.

Skin irritation, Category 2 (Skin Irrit. 2, H315). Serious eye damage, Category 1 (Eye Dam. 1, H318). Respiratory tract irritation, Category 2 (Skin Irrit. 2, H335)

2.2. Label elements.

Regulation (EC) No. 1272/2008

Pictograms:	 GHS05 Corrosion  GHS07 Warning
H statements:	H318: Causes serious eye damage. H315: Causes skin irritation H335: May cause respiratory irritation

P phrases:

Precautionary statements - Prevention:

- P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264: Wash hands thoroughly after handling.
- P271: Use only outdoors or in a well-ventilated area.
- P280: Wear protective gloves/clothing/eye protection/face protection.

Precautionary measures - Response:

- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P332+P313: IF SKIN IRRITATION OCCURS: seek medical advice
- P362+P364: Take off contaminated clothing and wash it before reuse.
- P305+P351+P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Immediately call a POISON CENTRE or doctor.
- P304+P340+ P312: IF INHALED: Remove victim to fresh air and keep at rest in a comfortable position for breathing. Call a poison control centre or doctor if you feel unwell.

Precautionary statements - Storage:

- P403+P233: Store in a well-ventilated place. Keep the container tightly closed.
- P501: Dispose of contents or container in accordance with local, regional, national or international regulations.

2.3. Other hazards

Endocrine disruptors: Does not contain substances identified as endocrine disruptors according to REACH.

Environment: Concrete does not present a particular risk to the environment, provided that the considerations in sections 12 and 13, Ecological Information and Disposal Considerations, are observed.

Additional information:

The marketed product is low in chromates per se or due to the reduction of its water-soluble chromium VI content.

3. Composition/information on components**3.1. Composition.**

Mixture of cements, aggregates and additives.

3.2. Hazardous components:

Component	CAS No	EINECS No.	Concentration %	Hazard symbol	H statements
Cement	65997-15-1	266-043-4	< 26	GHS05, GHS07	H318, H315, H335

4. First aid.**4.1. Description of first aid measures.**

Move the source of contamination or move the victim to fresh air. Seek medical advice immediately.

Inhalation**Skin contact**

If irritation occurs, clean the affected area with warm running water, allowing the water to run gently for at least 10 minutes. If irritation persists, seek medical advice immediately.

Eye contact

Immediately rinse the contaminated eye(s) with warm running water, keeping the eyelid(s) open for 10 minutes. If irritation persists, seek medical advice immediately.

Ingestion

Never give anything by mouth if the victim is losing consciousness, unconscious or convulsing. Rinse the mouth thoroughly. DO NOT INDUCE VOMITING. Give the victim 240 to 300 ml of water to drink to dilute the material in the stomach. Seek medical advice immediately.

Provide general supportive measures (warmth, comfort and rest). If the situation worsens, transfer the patient to the nearest poison control centre.

4.2. Main symptoms and effects, acute and delayed.

There are no symptoms or delayed effects.

4.3 Indication of any medical attention and special treatment required immediately.

Not relevant.

5. Firefighting measures.

5.1. Extinguishing media.

Product is non-flammable under normal conditions of storage, handling and use. In case of ignition as a result of improper handling, storage or use, preferably use multipurpose powder extinguishers (ABC powder), in accordance with the Regulations on fire protection installations (R.D. 1942/1993 and subsequent amendments).

The use of water jets as an extinguishing agent is **NOT RECOMMENDED**.

5.2. Specific hazards arising from the substance or mixture:

Combustion or thermal decomposition generates reaction by-products (CO₂, CO, NO_x, etc.) that can be highly toxic and, consequently, pose a high health risk.

5.3. Recommendations for firefighting personnel.

Depending on the magnitude of the fire, it may be necessary to wear full protective clothing and self-contained breathing apparatus. Have a minimum of emergency facilities or response equipment (fire blankets, portable first aid kit, etc.) in accordance with Royal Decree 486/1997 and subsequent amendments.

5.4. Additional provisions.

Act in accordance with the Internal Emergency Plan and the Information Sheets on how to respond to accidents and other emergencies.

Remove all sources of ignition. In case of fire, cool containers and storage tanks of products susceptible to ignition, explosion or BLEVE as a result of high temperatures. Avoid spilling products used to extinguish the fire into the aquatic environment.

6. Measures in case of accidental spillage.

6.1. Personal precautions, protective equipment and emergency procedures.

Avoid breathing dust. Use respiratory protection in poorly ventilated areas.

Avoid contact with eyes and skin. Wear eye protection, suitable work clothing and waterproof safety gloves.

6.2. Environmental precautions.

Avoid contamination of drains, surface water and groundwater.

6.3. Containment and cleaning methods and materials.

Collect mechanically, avoiding the formation of dust. Clean the stained area with plenty of water.

Dispose of recovered waste in accordance with local regulations. Once set, the product can be disposed of as inert waste.

6.4. Reference to other sections.

See sections 8 and 13.

7. Handling and storage.

7.1. Precautions for safe handling.

This material is supplied in paper or plastic bags or in bulk.

Good ventilation must be ensured in areas where the product is handled.

Avoid dust clouds during handling. If unavoidable, wear approved goggles and dust mask. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including possible incompatibilities.

Keep the container tightly closed and protected from exposure to air and moisture. Store in a dry, cool place away from the normal working area and incompatible materials.

Risk of burial: to prevent the risk of burial or suffocation, do not enter confined spaces such as silos, containers, vats or other receptacles used to store or containing concrete without taking the appropriate safety measures. Concrete may accumulate or adhere to the walls of confined spaces and may come loose.

7.3. Specific end uses.

In concrete treated with chromium VI reducing agents, the effectiveness of the reducing agent diminishes over time. Therefore, bags and delivery notes must include information on the period of effectiveness (expiry date, half-life) that the manufacturer guarantees that the reducing agent will continue to maintain the level of chromium VI below the regulatory limit for water-soluble chromium VI. In addition, the appropriate storage conditions for maintaining the effectiveness of the reducing agent must be indicated.

8. Exposure controls/personal protection.

8.1. Control parameters

Substances included in the INSHT's "List of Occupational Exposure to Chemical Agents in Spain":

Substance	CAS No.	EINECS No.	Type	Limit value
Portland cement	65997-15-1	266-043-4	VLA-ED Respirable fraction (8 hours)	4 mg/m ³
			Particles not otherwise specified: Inhalable fraction VLA-ED = 10 mg/m ³ // Respirable fraction VLA-ED = 3 mg/m ³	

DNEL (Workers): Not relevant
DNEL (Population): Not relevant
PNEC: Not relevant

8.2. Exposure controls.

General:

During work, whenever possible, avoid kneeling on fresh concrete or mortar. If it is absolutely necessary to kneel in order to carry out the work, then the use of waterproof personal protective equipment (waterproof knee pads) is mandatory. Do not eat, drink or smoke while working with concrete to avoid contact with the skin or mouth.

Once concrete work is complete, workers should wash and shower, and it is advisable to use moisturising creams. Remove any stained items (clothing, footwear, watches, etc.) and clean them before reuse.

Respiratory protection:

Use an approved respirator to avoid discomfort from dust. The limitations on the use of the respirator are specified by the certifying agency and the manufacturer.

Eye protection:

To avoid the risk of dust and splashes getting into your eyes, you must wear safety goggles.

Skin protection:

Impermeable gloves, body protectors, etc. must be worn.

Environmental exposure control:

In accordance with available technology.

9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Physical state	Granules and powder
Colour	Grey-white
Appearance	Solid granules
Odour	Not relevant *
Odour threshold	Not relevant *
Melting point	> 1000 °C
Freezing point	Not relevant *
Boiling point	Not relevant *
Flammability	Not relevant *
Lower explosion limit	Not relevant *
Upper explosion limit	Not relevant *
Flash point	Not relevant *
Auto-ignition temperature	Not relevant *
Decomposition temperature	Not relevant *
pH	11–13 (20 °C)
Solution pH	Not relevant *
Viscosity, kinematic	Not relevant *
Solubility	The product is partially soluble
Partition coefficient n-octanol/water (Log	Not relevant *

Vapour pressure at 20°C	Not relevant *
Vapour pressure at 50°C	Not applicable *
Density	Not applicable *
Relative density	1.6-2 g/cm ³ .
Vapour density	Not relevant *
Particle size	Not relevant *
*Not relevant due to the nature of the product, as it does not provide information characteristic of its hazardousness	

10. Stability and reactivity

10.1. Reactivity.

No dangerous reactions are expected if the technical instructions for storing chemicals are followed. See section 7.

10.2. Chemical stability.

Stable under dry storage conditions and once set.

10.3. Possibility of hazardous reactions.

Under the conditions indicated, no dangerous reactions are expected that could produce excessive pressure or temperatures.

10.4. Conditions to avoid.

Exposure to moisture prior to application may cause the product to harden.

10.5. Incompatible materials.

Strong acids

10.6. Hazardous decomposition products.

None known

11. Toxicological information

11.1. Information on the hazard classes defined in Regulation (EC) No 1272/2008

No experimental data are available on the mixture itself regarding toxicological properties.

Acute toxicity (oral)	Based on the available data, the classification criteria are not met.
Acute toxicity (dermal)	Based on the available data, the classification criteria are not met.
Acute toxicity (inhalation)	Based on the available data, the classification criteria are not met.
Skin corrosion or irritation	Causes skin irritation. pH: 11–13.5 (20 °C)
Serious eye damage or eye irritation	Causes serious eye damage. pH: 11 – 13.5 (20°C)
Respiratory or skin sensitisation	Based on the available data, the classification criteria are not met.
Germ cell mutagenicity	In view of the available data, the classification criteria are not met.
Carcinogenicity	In view of the available data, the classification criteria are not met.
Reproductive toxicity	Based on the available data, the classification criteria are not met.
Specific target organ toxicity (STOT) – single exposure	May irritate the respiratory tract.
Additional information	Exposure to concentrations above the exposure limit values may cause coughing, sneezing and a feeling of suffocation.
Specific target organ toxicity (STOT) – repeated exposure	Based on the available data, the classification criteria are not met.
Aspiration hazard	Not classified (Not applicable because concrete is not used as an aerosol.)

11.2. Information on hazard classes

Endocrine-disrupting properties:

The product does not meet the criteria for endocrine disrupting properties.

Other data:

Not relevant

12. Ecological information

No experimental data is available on the mixture itself in relation to its ecotoxicological properties. No negative effects on the environment are known once the product has set.

The set material is stable, fixing its compounds and rendering them insoluble.

Spilling the product into water may cause an increase in pH. **Not biodegradable.**

12.1. Toxicity.

Not determined

12.2. Persistence and degradability.

Not determined

12.3. Bioaccumulation potential.

Not determined

12.4. Mobility on the ground.

Not described

12.5. Results of PBT and mPmB assessment.

Not applicable

12.6. Endocrine-disrupting properties:

The product does not meet the criteria for endocrine disruption properties.

12.7. Other adverse effects.

Not applicable

13. Disposal considerations

13.1 Methods for waste treatment.

Product:

Follow local regulations in force as construction waste. Do not pour into drains or watercourses.

Containers and packaging:

Empty containers and packaging can be recycled.

Containers and packaging with product must be disposed of in the same way as the product.

14. Transport information

Non-hazardous goods.

Not subject to transport classification and labelling.

15. Regulatory information.

15.1 Regulations and legislation on safety, health and the environment specific to the mixture.

Substances subject to authorisation under Regulation (EC) 1907/2006 (REACH): Not applicable

Substances included in Annex XIV of REACH (authorisation list) and expiry date: Not applicable

Regulation (EC) 1005/2009 on substances that deplete the ozone layer: Not applicable

Active substances not included in Annex I or IA of Directive 98/8/EC: Not applicable Regulation (EC) 649/2012

on the export and import of dangerous chemicals: Not applicable Seveso III: Not applicable

Restrictions on the marketing and use of certain dangerous substances and mixtures (Annex XVII of the REACH Regulation): Not applicable

Specific provisions for the protection of persons or the environment.

It is recommended that the information compiled in this safety data sheet be used as input data in a risk assessment of local circumstances in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

15.2 Chemical safety assessment.

The supplier has not carried out a chemical safety assessment.

16. Other information.

Changes from the previous safety data sheet that affect risk management measures:

Compliance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) has been verified.

- Section 1.1. Product identifier. - Includes the unique formula identifier (UFI) for the different mixtures and trade names.
- Section 2.3. Other hazards. - Information on the presence of substances with endocrine-disrupting properties is added.
- Section 8.1. Control parameters. - Indication of DNEL and PNEC is included.
- Section 9.1. Information on basic physical and chemical properties. - The data on the properties indicated in the Regulation are completed. 2020/878, explicitly stating "not relevant" where applicable.
- Section 11. Toxicological information. - Information is included on the hazard classes indicated in Reg. 2020/878, stating where applicable that "in view of the available data, the classification criteria are not met"; that the product does not meet the criteria due to its endocrine-disrupting properties; and that there is no other relevant data.
- Section 15. Regulatory information. - Section u is reorganised and an assessment regarding Seveso III is included as "Not relevant".

Training advice: Minimum training in occupational risk prevention is recommended for personnel who will be handling this product, in order to facilitate understanding and interpretation of this safety data sheet and the product labelling.

Complete H statements from section 3:

H318: Causes serious eye damage.

H315: Causes skin irritation

H335: May cause respiratory irritation

The information in this Product Safety Data Sheet is based on current knowledge and applicable EC and national laws, as the working conditions of users are beyond our knowledge and control. The product must not be used for purposes other than those specified without first obtaining written instructions on its use. It is always the user's responsibility to take the appropriate measures to comply with the requirements established in the legislation.



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