



Material Safety Data Sheet
(in agreement to (CE) nº 1907/2006)

ACERO and COBRE ACTIVATOR

REF: KACT

1. PRODUCT AND MANUFACTURER DETAILS

Product Name:	KACT ACTIVATOR KIT ACERO AND COBRE
Product description:	Activator for metallic coatings
Company:	CEMENT DESIGN, S.L.
Address:	Avda. Río Guadalquivir, 2, CP 28906 Getafe (Madrid . España)
Telephone:	911 407 965
Email address	info@cementdesign.eu
Web:	www.cementdesign.eu

2. CHEMICAL COMPOSITION

Composition	9% clorhidric acid, 32% accelerator additive, 59% water
Appearance	Transparent liquid, pungent and spicy smell. It is a hygroscopic product and fumes in the air
Boiling point	> 100°C
Melting point	< 0°C
Specific weight:	1.01 (Kg/l.).
Viscosity	< 300 mPas
Solubility	100%
pH	<5

3. HAZARDS IDENTIFICATION

For inhalation: Irritation in nose, eyes and throat

For skin contact: Risk of burns. It is an irritating and corrosive product

For contact with eyes: Painful irritation with risk of serious injuries. It can produce conjunctivitis, tearing and inflammation.

For ingestion: Digestive irritation with serious risk of injuries in mouth, throat, esophagus and stomach. Nausea and vomiting. Risk of shock.

It is a very corrosive liquid with the majority of metals. It reacts with strong acids (giving off chlorine).



Material Safety Data Sheet
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REF: KACT

4. FIRST AID MEASURES

Eyes: Immediately flush eyes for at least 15 with warm water, keeping eyelids open, and go to the ophthalmologist. When projected to the face, treat always eyes first.

Skin: Take a shower immediately. To rinse skin immediately with abundant water and soap for 15 minutes. To remove contaminated clothes and shoes, and put them outside. Avoid cooling. Get medical attention if irritation continues.

Inhalation: Move the affected person to fresh air and keep the person in an almost sat up position. When the intoxication is grave, avoid cooling. Oxygen when needed. Get medical attention immediately.

Ingestion: Not inducing vomit. Avoid cooling. To rinse mouth immediately with fresh water. To drink milk or water in small sips. Get medical attention immediately.

If the victim is unconscious, to loosen the neck and clothes and lay him in his right side. To administrate oxygen. Go to the hospital.

5. FIRE FIGHTING MEASURES

The vapors are neither flammable nor explosive. However, they react with the majority of metals, giving off hydrogen.

Use water spray to inhibit the vapors.

Use calcium carbonate, slaked lime to neutralize the acid solution

To evacuate the dangerous area. To cool the containers with product located in dangerous area with water spray. To use suitable clothes, gloves and safety glasses with lateral protection and respiratory mask.

6. INSTRUCTIONS IN CASE OF ACCIDENTAL RELEASE

Personal precautions:

To avoid personal contact with the liquid, especially in eyes and skin

Environmental cautions:

To prevent the product from getting into the drains.

To absorb the product, to neutralize it by an alkali (sodium hydroxide) highly diluted in water.

Once neutralized, to bring the released product to a controlled spillway

Do not act without suitable protection

Cleaning methods:

Collect the product for re-use if possible, or for elimination.

The product should be absorbed as inert material and be transferred into suitable containers.

After collecting the product, to clean the area and materials with water.

To prevent water from getting into the sewage system, runoff, groundwaters or soil.

If the product went to an ongoing water or into a drainage system or it polluted the ground or vegetation, you would notify it to the competent authorities.

Small quantities can be get into the sewage system previously diluted with high amounts of water.

If the product comes into contact with a reactive material, to neutralize it with slaked lime and rinse with water.

Production of toxic fumes caused by combustion



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7. HANDLING AND STORAGE

Ensure good ventilation at the workplace, in accordance with health and safety industrial regulations.
To , t an adequate suction system, if conditions at workplace need it

7.1. Handling:

To avoid the contact with the skin, eyes and mucosas.

During manipulation, to use protector glasses, rubber gloves, waterproof clothes (apron) and respiratory mask .

To prevent overheating of the product and projection of the liquid.

7.2. Storage:

To store the product in a cool and well ventilated area, away from light and flammable and reactive substances (chlorine, metals, ò), separated of strong alkaline substances, amines, alcohols, ketones, metals, peroxides. Never store in metallic containers.

8.EXPOSURE CONTROLS / PERSONAL PROTECTION

To use safety glasses, rubber gloves and protective clothes and boots (PVC ò).
Not to eat, drink and smoke while manipulating the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Odor	Pungent and spicy smell
Presentation	Container of 500 ml
Color	White
Boiling point	> 100°C
Melting point	< 0°C
Water solubility	100%
pH	5

It is a hygroscopic product and fumes in the air.

10. STABILITY AND REACTIVITY

The concentrated acids are very corrosive compared to the majority of metals, giving off hydrogen.

Reacts with strong oxidants (evolution of chlorine)

Dangerous decomposition products: gases (chlorine and hydrogen)

Not to mix neither with ammonia products nor chlorine (bleaches)

Not to apply on metals.

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11. TOXICOLOGICAL INFORMATION

For inhalation: Irritation in nose, eyes and throat.

Contact with eye: Painful irritation.

Skin contact: Skin irritation, redness. Projections to the skin or clothes always have risk of vapor inhalation.

For ingestion: Intensive irritation and risk of serious burns in mouth, nausea, vomits, respiratory collapse, and possible irritation in digestive system, with risk of injuries.

12. ECOLOGICAL INFORMATION

High concentrations in sewage system can have effects in water pH.

To dilute immediately with high amount of water and to remove it according to legislation.

13. CONSIDERATIONS RELATING TO WASTE

Product: To dilute with water and to neutralize with a diluted basis. To drain with abundant water. These operations can be carried out by qualified personnel. We suggest asking the appropriate authorities (Public Administration or appropriate consultant) to be informed about each particular case.

Containers: The removal must be carried out according to official regulations. Not to use the container for other purposes.

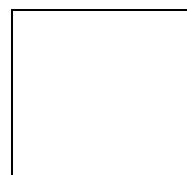
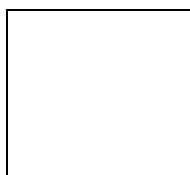
14. TRANSPORT INFORMATION

The product is not affected by laws about transport of dangerous goods

15. REGULATORY INFORMATION

CE labeling:

According to Directive 67/548/CEE~2006/8/CE (RD. 255/2003~OM.PRE/164/2007), the product is labeled as IRRITATING.





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T-R23	Toxic for inhalation.
R34-37	Produces burns. Irritate the airways.
C-R35	Corrosive, produces serious burns.
R36/38	Irritate the eyes, airways and skin.
S1/2	Keep locked up and out of reach of children
S-7	Keep container tightly closed.
S26	In case of eye contact, wash them immediately with abundant water, and go to a doctor.
S28	In case of skin contact, wash it immediately with abundant water
S46	In case of ingestion, go immediately to a doctor and show him the label or the recipient. No to ingest.

16. OTHER INFORMATION

The information contained in this technical file do not guarantee the properties or characteristics of the product, it simply describe the safety requirements of product.

CEMENT DESIGN reserves the right to update and modify data in the technical specifications in accordance with current legislation. The information, prescriptions and use, are based on Cement Design knowledge of their products through proper and normal use situations.

The user must check the suitability of the product according to the use you go for, depending on the surface and the real conditions of the application site.