

Material Safety Data Sheet

– CEMENTA SetControl II

1. NAME OF THE PRODUCT AND THE COMPANY

<i>Product name</i>	Cementa SetControl II Binding time regulating additive for injection grout.
<i>Issued</i>	2009-03-01
<i>Manufacturer and supplier</i>	Cementa AB P.O. Box 47210 SE-100 74 Stockholm
<i>Contact person</i>	Sven-Erik Johansson, +46 8 625 68 00

2. COMPOSITION/CLASSIFICATION OF SUBSTANCES

<i>Substance</i>	<i>CAS #</i>	<i>Content (%)</i>	<i>Class; R-phrases*</i>
Calcium-nitrate	10124-37-5	30–60	Xn; R22, R36/38**
Sulphonated naphthalene-polymers	9084-64-4	1–10	

* *Classification and R-phrases for health hazards as indicated in the regulations of the Swedish Chemicals Inspectorate (KIFS 1997:5) and for fire safety in accordance with the regulations of the Swedish Inspectorate of Explosives and Flammables (SÄIFS 1989:3 and 1995:5).*

** *Own classification.*

3. DANGEROUS CHARACTERISTICS

<i>Health Risks</i>	Dangerous if consumed. Irritates eyes and skin.
<i>Environmental Risks</i>	Can contribute to overfeeding of lakes and watercourses.
<i>Fire Risks</i>	
<i>Physical/Chemical risks</i>	

4. FIRST AID

<i>Inhalation</i>	Fresh air.
<i>Skin contact</i>	Remove the spattered clothes and shoes immediately. Rinse the affected areas with water and then wash thoroughly with soap and water.
<i>Eye contact</i>	Flush immediately with a lot of water for several minutes. Hold the eyelid wide open; remove contact lenses, if applicable. Contact your local doctor if pain persists.
<i>Consumption</i>	Give a couple of glasses of milk or water if the injured person is fully conscious. Contact your local doctor if a significant amount was swallowed.

5. PROCEDURES IN CASE OF FIRE

The product can be extinguished with carbon-dioxide, powder (water). Containers that are nearby should be moved or cooled down with water. Nitrous gases can form due to strong heating.

6. PROCEDURES IN CASE OF SPILLAGE/UNINTENTIONAL DISCHARGE

Small amounts may be flushed away. Larger quantities should be soaked up by using absorbing materials, for example, sand, soil, or something similar, and treated as waste. Prevent it from running into the sewerage.

7. HANDLING AND STORAGE

Avoid direct contact with the product. It can be stored outside at a temperature above the product's freezing point (–10 deg. Celsius).

8. LIMITATION OF EXPOSURE/PERSONAL SAFETY PROCEDURES

Make sure there is adequate ventilation.

Technical safety procedures There should be eyewash facilities on-site.

Personal protective-wear Protective gloves and eyewear should be used where there is a risk of direct contact with the product.

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

<i>Description of product</i>	Brown, watery fluid
<i>Density</i>	1,476 kg/m ³
<i>Water soluble</i>	100 weight percentage at 20 deg. Celsius
<i>pH concentrate</i>	6

10. STABILITY AND REACTIVITY

The product is stable during normal handling conditions.

11. TOXICOLOGICAL INFORMATION

<i>Inhalation</i>	Inhaling fumes can cause irritations.	
<i>Skin contact</i>	Prolonged contact or repeated periods of contact can cause irritation.	
<i>Eye contact</i>	If it splashes into your eyes it will cause smarting pain and irritation.	
<i>Consumption</i>	Nitrates are dangerous when swallowed. Even small, repeated amounts can lead to poisoning. Fainting spells, nausea, diarrhea containing blood, cramps, and lethargy.	
<i>Toxicological information</i>	Calcium-nitrate	LD ₅₀ oral rat 302 mg/kg
	Sulphonated naphthalene polymers	LD ₅₀ oral rat > 2,000 mg/kg

12. EXOTOXICOLOGICAL INFORMATION

The product can contribute to overfeeding of lakes.

<i>Aquatic toxicity</i>	Sulphonated naphthalene polymers	Low toxicity for water organisms. LC _{50/48 h} 400 mg/l (Salmo gairdneri) EC _{50/48 h} > 200 mg/l (Daphnia magna)
<i>Degradability</i>	Sulphonated naphthalene polymers	Not easily degradable. BOD ₅ /COD 0.03


13. WASTE DISPOSAL

The product should be treated as dangerous waste according to EWC-kod 16 05 08, according the Waste Disposal Inspectorate (SFS 2001: 1063).

14. TRANSPORT INFORMATION

<i>FN</i>	<i>IMDG (Lake)</i>	<i>ADR/RID</i>	<i>DGR (Air)</i>
FN # –	Class –	Class –	Class –
Pack. Group–	Page EmS No MFAG No	Substance #	
Free amount –			

15. APPLICABLE REGULATIONS

<i>Danger symbols</i>	 Harmful	Andrew's Cross (Xn)
<i>R/S phrases and other marking information</i>	R 22	Dangerous when consumed.
	R 36/38	Irritates skin and eyes.
	S 24/25	Avoid contact with skin and eyes.
	S 26	When in contact with eyes, flush immediately with a doctor.
	S 37/39	Use suitable protective gloves and eyewear or a mask.

Hygiene limits are according to the book: The Board of Occupational Safety and Health Statute (AFS 1996: 2).

16. MISCELLANEOUS INFORMATION

Information about detailed substances has been extracted mainly from the following references

Lewis, R.J. (1992) Sax's Dangerous Properties of Industrial Materials, 8th ed., Van Nostrand Reinhold, New York.

Swedish Chemicals Inspectorate's substance list in the Swedish Chemicals Inspectorate's Regulations on Classification and marking of Chemical Products (KIFS 1997: 5).

Clayton, G.D., Clayton F.E. (1981) Patty's Industrial Hygiene and Toxicology, 3rd rev. ed., John Wiley & Sons, New York.

The Board for Occupational Safety and Health: Data Base on Chemical Substances (1996).

Information from the manufacturer.

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