# Safety Data Sheet according to Regulation (EC) No 1907/2006



SDS No. : 457594
V002.0

Ceresit CT 87

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Replaces version from: 10.11.2014

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

**1.1. Product identifier**
Ceresit CT 87

**Contains:**
Cement, portland, chemicals, low chromate
Calcium dihydroxide

**1.2. Relevant identified uses of the substance or mixture and uses advised against**
Intended use:
Special mortars

**1.3. Details of the supplier of the safety data sheet**
Henkel Polska Sp. z o.o.
ul. Domaniewska 41
02-672 Warszawa

Poland

Phone: +48 (048) 22 5656 600
Fax-no.: +48 (048) 22 5656 666

ua-productsafety.de@henkel.com

**1.4. Emergency telephone number**
The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

Further information is available at Poison Control Centers.

## SECTION 2: Hazards identification

**2.1. Classification of the substance or mixture**

**Classification (CLP):**

| | |
|---|---|
| Skin irritation | Category 2 |
| H315 Causes skin irritation. | |
| Serious eye damage | Category 1 |
| H318 Causes serious eye damage. | |
| Specific target organ toxicity - single exposure | Category 3 |
| H335 May cause respiratory irritation. | |

**2.2. Label elements**

**Label elements (CLP):**

**Hazard pictogram:**

**Signal word:** Danger

**Hazard statement:**
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

**Precautionary statement:**
P102 Keep out of reach of children.
P260 Do not breathe dust.
P280 Wear protective gloves/eye protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P302+P352 IF ON SKIN: Wash with plenty of water.
P313 Get medical advice/attention.

### 2.3. Other hazards

Chromate-reduced. Contains cement. Strongly alkaline reaction with moisture, so protect skin and eyes.
Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**General chemical description:**
Adhesive mortar
**Base substances of preparation:**
Cement
Mineral fillers

**Declaration of the ingredients according to CLP (EC) No 1272/2008:**

| Hazardous components<br>CAS-No. | EC Number<br>REACH-Reg No. | content | Classification |
|---|---|---|---|
| Cement, portland, chemicals<br>65997-15-1 | 266-043-4 | 20- 40 % | Skin Irrit. 2<br>H315<br>Skin Sens. 1<br>H317<br>Eye Dam. 1<br>H318<br>STOT SE 3<br>H335 |
| Calcium dihydroxide<br>1305-62-0 | 215-137-3<br>01-2119475151-45 | 1- < 3 % | Skin Irrit. 2; Dermal<br>H315<br>Eye Dam. 1<br>H318<br>STOT SE 3; Inhalation<br>H335 |

**For full text of the H - statements and other abbreviations see section 16 "Other information".**
**Substances without classification may have community workplace exposure limits available.**

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General information:
In case of adverse health effects seek medical advice.

Inhalation:
Remove person from dust-contaminated zone, seek medical advice if necessary.

Skin contact:
Rinse with running water and soap. Skin care. Remove contaminated clothes immediately.

Eye contact:
Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.
Do not rub eyes; mechanical action may cause corneal damage.

Ingestion:
Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

**4.2. Most important symptoms and effects, both acute and delayed**
SKIN: Redness, inflammation.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

**4.3. Indication of any immediate medical attention and special treatment needed**
See section: Description of first aid measures

## SECTION 5: Firefighting measures

**5.1. Extinguishing media**
**Suitable extinguishing media:**
carbon dioxide, foam, powder, water spray jet, fine water spray

**Extinguishing media which must not be used for safety reasons:**
High pressure waterjet

**5.2. Special hazards arising from the substance or mixture**
In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO2) can be released.

**5.3. Advice for firefighters**
Wear self-contained breathing apparatus.
Wear protective equipment.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
Avoid contact with skin and eyes.
Ensure adequate ventilation.
Wear protective equipment.

**6.2. Environmental precautions**
Do not empty into drains / surface water / ground water.
Inform authorities in the event of product spillage to water courses or sewage systems.

**6.3. Methods and material for containment and cleaning up**
Remove mechanically.
Dispose of contaminated material as waste according to Section 13.

**6.4. Reference to other sections**
See advice in section 8

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**
Avoid dust formation.
Avoid skin and eye contact.

Hygiene measures:
Do not eat, drink or smoke while working.
Wash hands before work breaks and after finishing work.

**7.2. Conditions for safe storage, including any incompatibilities**
Store in sealed original container protected against moisture.
Store in a cool, dry place.
Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

**7.3. Specific end use(s)**
Special mortars

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

**Occupational Exposure Limits**

Valid for
Germany

| Ingredient [Regulated substance] | ppm | mg/m³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|---|---|---|---|---|---|
| Silicon dioxide<br>7631-86-9 | | 4 | Exposure limit(s): | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Calcium dihydroxide<br>1305-62-0 | | | Short Term Exposure Classification: | Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages. | TRGS 900 |
| Calcium dihydroxide<br>1305-62-0 | | 1 | Exposure limit(s): | 2<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Calcium dihydroxide<br>1305-62-0<br>[CALCIUM DIHYDROXIDE (RESPIRABLE FRACTION)] | | 4 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
| Calcium dihydroxide<br>1305-62-0<br>[CALCIUM DIHYDROXIDE (RESPIRABLE FRACTION)] | | 1 | Time Weighted Average (TWA): | Indicative | ECTLV |

**Predicted No-Effect Concentration (PNEC):**

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|---|---|---|---|---|---|---|---|
| | | | mg/l | ppm | mg/kg | others | |
| Calcium dihydroxide<br>1305-62-0 | aqua (freshwater) | | 0,49 mg/l | | | | |
| Calcium dihydroxide<br>1305-62-0 | aqua (marine water) | | 0,32 mg/l | | | | |
| Calcium dihydroxide<br>1305-62-0 | aqua (intermittent releases) | | 0,49 mg/l | | | | |
| Calcium dihydroxide<br>1305-62-0 | sewage treatment plant (STP) | | 3 mg/l | | | | |
| Calcium dihydroxide<br>1305-62-0 | soil | | | | 1080 mg/kg | | |

**Derived No-Effect Level (DNEL):**

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|---|---|---|---|---|---|---|
| Calcium dihydroxide 1305-62-0 | Workers | Inhalation | Acute/short term exposure - local effects | | 4 mg/m3 | |
| Calcium dihydroxide 1305-62-0 | Workers | Inhalation | Long term exposure - local effects | | 1 mg/m3 | |
| Calcium dihydroxide 1305-62-0 | General population | Inhalation | Acute/short term exposure - local effects | | 4 mg/m3 | |
| Calcium dihydroxide 1305-62-0 | General population | Inhalation | Long term exposure - local effects | | 1 mg/m3 | |

**Biological Exposure Indices:**
None

**8.2. Exposure controls:**

Respiratory protection:
In case of dust formation, we recommend wearing of appropriate respiratory protection equipment with particle filter P (EN 14387).
This recommendation should be matched to local conditions.

Hand protection:
In the case of longer contact protective gloves made from nitrile rubber are recommended according to EN 374.
Perforation time > 480 minutes
material thickness > 0.1 mm
In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:
Goggles which can be tightly sealed.
Protective eye equipment should conform to EN166.

Skin protection:
Dustproof working clothes.
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:
The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.
Personal protective equipment should conform to the relevant EN standard.

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| Appearance | solid<br>powder<br>white |
| Odor | characteristic |
| Odour threshold | No data available / Not applicable |
| pH | No data available / Not applicable |
| Melting point | No data available / Not applicable |
| Solidification temperature | No data available / Not applicable |
| Initial boiling point | No data available / Not applicable |
| Flash point | No data available / Not applicable |

| | |
|---|---|
| Evaporation rate | No data available / Not applicable |
| Flammability | No data available / Not applicable |
| Explosive limits | No data available / Not applicable |
| Vapour pressure | No data available / Not applicable |
| Relative vapour density: | No data available / Not applicable |
| Density | No data available / Not applicable |
| Bulk density | 1,17 - 1,43 g/l |
| Solubility | No data available / Not applicable |
| Solubility (qualitative) (20 °C (68 °F); Solvent: Water) | practically insoluble in water -hydraulically setting at influence of water |
| Partition coefficient: n-octanol/water | No data available / Not applicable |
| Auto-ignition temperature | No data available / Not applicable |
| Decomposition temperature | No data available / Not applicable |
| Viscosity | No data available / Not applicable |
| Viscosity (kinematic) | No data available / Not applicable |
| Explosive properties | No data available / Not applicable |
| Oxidising properties | No data available / Not applicable |

**9.2. Other information**

No data available / Not applicable

## SECTION 10: Stability and reactivity

**10.1. Reactivity**
Reaction with acids: production of heat and carbon dioxide.

**10.2. Chemical stability**
Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**
See section reactivity

**10.4. Conditions to avoid**
None if used for intended purpose.

**10.5. Incompatible materials**
See section reactivity.

**10.6. Hazardous decomposition products**
None known.

## SECTION 11: Toxicological information

**11.1. Information on toxicological effects**

**General toxicological information:**
The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

**STOT-single exposure:**
May cause respiratory irritation.

**Skin irritation:**
Causes skin irritation.

**Eye irritation:**
Causes serious eye damage.

**Sensitizing:**
Chromate-reduced. Does not need to be labeled as causing skin sensitization.

**Acute oral toxicity:**

| Hazardous components CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|---|---|---|---|---|---|---|
| Calcium dihydroxide 1305-62-0 | LD50 | > 7.340 mg/kg | oral | | rat | OECD Guideline 401 (Acute Oral Toxicity) |

**Acute inhalative toxicity:**

| Hazardous components CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|---|---|---|---|---|---|---|

**Acute dermal toxicity:**

| Hazardous components CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|---|---|---|---|---|---|---|
| Cement, portland, chemicals 65997-15-1 | | 2.000 mg/kg | dermal | | rabbit | |
| Calcium dihydroxide 1305-62-0 | LD50 | > 2.500 mg/kg | dermal | | rat | OECD Guideline 402 (Acute Dermal Toxicity) |

**Skin corrosion/irritation:**

| Hazardous components CAS-No. | Result | Exposure time | Species | Method |
|---|---|---|---|---|
| Calcium dihydroxide 1305-62-0 | irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

**Serious eye damage/irritation:**

| Hazardous components CAS-No. | Result | Exposure time | Species | Method |
|---|---|---|---|---|
| Calcium dihydroxide 1305-62-0 | Category 1 (irreversible effects on the eye) | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

**Germ cell mutagenicity:**

| Hazardous components CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|---|---|---|---|---|---|
| Calcium dihydroxide 1305-62-0 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |

## SECTION 12: Ecological information

**General ecological information:**
The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.
Do not empty into drains, soil or bodies of water.
Due to the practical insolubility in water a separation takes place with each filtration and sedimentation procedure.

**12.1. Toxicity**

| Hazardous components CAS-No. | Value type | Value | Acute Toxicity Study | Exposure time | Species | Method |
|---|---|---|---|---|---|---|
| Cement, portland, chemicals 65997-15-1 | LC50 | > 10.000 mg/l | Fish | 96 h | Brachydanio rerio (new name: Danio rerio) | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Cement, portland, chemicals 65997-15-1 | EC50 | > 10.000 mg/l | Daphnia | 24 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Cement, portland, chemicals 65997-15-1 | NOEC | 60 mg/l | Algae | 72 h | Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata) | ISO 8692 (Water Quality) |
| | EC50 | 440 mg/l | Algae | 72 h | Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata) | ISO 8692 (Water Quality) |
| Cement, portland, chemicals 65997-15-1 | EC0 | 10.000 mg/l | Bacteria | 30 min | | not specified |
| Calcium dihydroxide 1305-62-0 | LC50 | 50,6 mg/l | Fish | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Calcium dihydroxide 1305-62-0 | EC50 | 49,1 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Calcium dihydroxide 1305-62-0 | EC50 | 184,57 mg/l | Algae | 72 h | Pseudokirchnerella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | NOEC | 48 mg/l | Algae | 72 h | Pseudokirchnerella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Calcium dihydroxide 1305-62-0 | EC20 | 229,2 mg/l | Bacteria | 3 h | activated sludge of a predominantly domestic sewage | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Calcium dihydroxide 1305-62-0 | NOEC | 32 mg/l | chronic Daphnia | 14 d | Crangon septemspinosa | OECD Guideline 202 (Daphnia sp. Chronic Immobilisation Test) |

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential / 12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

| Hazardous components CAS-No. | PBT/vPvB |
|---|---|
| Cement, portland, chemicals 65997-15-1 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Calcium dihydroxide 1305-62-0 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

**12.6. Other adverse effects**

No data available.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

Product disposal:
Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:
Use packages for recycling only when totally empty.

Waste code
170106

## SECTION 14: Transport information

**14.1. UN number**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.2. UN proper shipping name**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.3. Transport hazard class(es)**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.4. Packing group**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.5. Environmental hazards**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.6. Special precautions for user**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not applicable

## SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

| | |
|---|---|
| VOC content (VOCV 814.018 VOC regulation CH) | 0,00 % |

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

**National regulations/information (Germany):**

| | |
|---|---|
| WGK: | 1, slightly water-endangering product. (German VwVwS of May 17, 1999 ) Classification in conformity with the calculation method |
| BG regulations, rules, infos: | BG data sheet: BGI 595 Irritating substances / Corrosive substances (M 004) |
| Storage class according to TRGS 510: | 11 |
| GISCODE: | ZP1 Cementitious products, low-chromate |
| General remarks (DE): | This product is chromate reduced. |

## SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text
of all abbreviations indicated by codes in this safety data sheet are as follows:

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

**Further information:**
This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

**Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.**