

Trade Name: HiPerCem

Company / Supplier: CALUCEM GmbH, Besselstraße 8, D- 68219 Mannheim

Telephone: +49 - 621-10759-0, Date of issue: 15.08.2018 Replaces Data Sheet of: 15.09.2017

SECTION 3: Composition/information on ingredients**3.1 Substances****Dangerous Ingredients:**

| Material | Index - No. | EC - No. | REACH - No. | m% - range |
|----------------------------------------------------------|-------------|-----------|-------------|-------------------|
| CAS - No. Hazard Code(s) / H - phrases | | | | |
| Cement, alumina, chemicals 65997-16-2 n.ap. | n.av. | 266-045-5 | n.av. | > 99,5% |

Further information:

Contains no measurable amounts of crystalline silica (such as quartz, tridymite or cristobalite).

In compliance with REACH, Annex XVII the water-soluble chromium VI content is always under 2ppm (0,0002 Ma.%).

3.2 Mixtures

n.ap.

SECTION 4: First aid measures**4.1 Description of first aid measures****4.1.1 Inhalation:**

Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.

4.1.2 Skin Contact:

Before washing use a dry brush to remove dust from skin. Wash off with soap and water.

Consult a physician if necessary.

4.1.3 Eye Contact:

Call a physician immediately.

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

4.1.4 Ingestion:

Consult a physician.

Do not induce vomiting. Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.

Risk of infection of the lung after prolonged inhalation of dust particles.

According to concentration, aqueous solution causes irritation or burns of eyes, skin and mucous membranes.

4.3 Indication of any immediate medical attention and special treatment needed

According to concentration, aqueous solution causes irritation or burns of eyes, skin and mucous membranes.

Treat symptomatically.

SECTION 5: Firefighting measures**5.1 Extinguishing media****5.1.1 Suitable Extinguishing Media:**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Knock down dust with water spray jet.

5.1.2 Extinguishing Media to Avoid:

high volume water jet.

5.2 Special hazards arising from the substance or mixture

In the event of fire respirable dust may be formed.

5.3 Advice for firefighters**5.3.1 Special Protective Equipment:**

Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.

5.3.2 Additional Information:

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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SECTION 6: Accidental release measures

- 6.1 **Personal precautions, protective equipment and emergency procedures**
See chapter 8.2.2
Avoid dust formation.
- 6.2 **Environmental precautions**
Do not contaminate water.
Local authorities should be advised if significant spillages cannot be contained.
- 6.3 **Methods and material for containment and cleaning up**
Powder: Use mechanical handling equipment. Avoid dust formation.
Never return spills in original containers for re-use.
Water reactive (exothermic reaction). Allow to solidify, use mechanical handling equipment.
- 6.4 **Reference to other sections**
None.

SECTION 7: Handling and storage

- 7.1 **Precautions for safe handling**
- 7.1.1 **Precautions for Safe Handling:**
Avoid contact with the skin and the eyes. Remove and wash contaminated clothing before re-use.
When using, do not eat, drink or smoke. Do not breathe dust.
Wash hands before breaks and immediately after handling the product.
- 7.1.2 **Precautions in Case of Fire and Explosion:**
No special precautions required. Normal measures for preventive fire protection.
- 7.2 **Conditions for safe storage, including any incompatibilities**
- 7.2.1 **Storage Instructions:**
Keep tightly closed in a dry, cool and well-ventilated place.
Never allow product to get in contact with water during storage.
Never return spills in original containers for re-use.
- 7.2.2 **Store away from:**
Do not store together with strong acids and oxidizing agents.
- 7.2.3 **Further Information on Storage Conditions:**
None.
- 7.3 **Specific end use(s)**
n.av.

SECTION 8: Exposure controls/personal protection

- 8.1 **Control parameters**
- | Material | Limit Value |
|----------------------------|---------------------------------------------------------------------------------------------------------|
| Cement, alumina, chemicals | TLV dust: 10 mg/m ³ (respirable fraction); 3 mg/m ³ (alveole passing fraction) |
- 8.2 **Exposure controls**
- 8.2.1 **Appropriate engineering controls**
Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.
- 8.2.2 **Individual protection measures**
- 8.2.2a **Respiratory Protection:** Breathing apparatus only if aerosol or dust is formed.
Respirator with filter P 2
- 8.2.2b **Hand Protection:** Protective gloves complying with EN 374.
Nitrile rubber impregnated cotton (0,4 mm) break through time > 8 h
The data about break through time/strength of material are standard values!
The exact break through time/strength of material has to be obtained from the producer of the protective glove. nitrile rubber
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
- 8.2.2c **Eye Protection:** Tightly fitting safety goggles
- 8.2.2d **Skin Protection:** Long sleeved clothing
- 8.2.2e **Further Information:** Observe wearing time limits:
- 8.2.3 **Environmental exposure controls:**
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SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

| | | | |
|--------|-------------------------------------------|----------------------|--------------------------------------------|
| 9.1.1 | Form: powder | Colour: white | Odour: odourless |
| | | | Odour threshold: n.av. |
| 9.1.2 | pH-value, undiluted: | n.ap. | |
| | pH-value, 10% aqueous solution: | 10,76 | |
| 9.1.3 | Boiling point / Boiling - range (°C): | n.ap., | Melting point / Melting range (°C): ~ 1600 |
| 9.1.4 | Flash point (°C): | n.ap., | closed cup |
| 9.1.5 | Flammability (EEC A10/A13): | None. | |
| 9.1.6 | Ignition temperature (°C): | n.av. | |
| 9.1.7 | Autoflammability (EEC A16): | None. | |
| 9.1.8 | Oxidising properties: | No. | |
| 9.1.9 | Explosion hazard: | No. | |
| 9.1.10 | Explosion limits (Vol.%) lower: | n.av., | upper: n.av. |
| 9.1.11 | Vapour pressure: | n.av. | |
| | Vapour density (Air = 1): | n.ap. | |
| 9.1.12 | Density (g/ml): | 2,9 - 3 | Bulk density: 0,9 – 1 g / cm ³ |
| 9.1.13 | Solubility (in Water): | practically | insoluble |
| 9.1.14 | Partition coefficient, n-Octanol / Water: | n.ap. | |
| 9.1.15 | Viscosity: | n.ap.(| powder) |
| 9.1.16 | Solvent content (m %): | n.ap. | |
| 9.1.17 | Thermal decomposition (°C): | n.av. | |
| 9.1.18 | Evaporation rate: | n.av. | |
| 9.2 | Other information | | |
| | n.av. | | |

SECTION 10: Stability and reactivity

| | |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 10.1 | Reactivity No information available. |
| 10.2 | Chemical stability Stable under normal conditions. |
| 10.3 | Possibility of hazardous reactions No dangerous reaction known under conditions of normal use. Water reactive (exothermic reaction) |
| 10.4 | Conditions to avoid Keep in a dry place. Never allow product to get in contact with water during storage. |
| 10.5 | Incompatible materials Incompatible with strong acids and oxidizing agents. Aqueous solution incompatible with acids ammonium salts. |
| 10.6 | Hazardous decomposition products No decomposition if stored and applied as directed. To avoid thermal decomposition, do not overheat. |

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SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Acute Health Effects:

Inhalation: n.av.

Ingestion: n.av.

Skin Contact: n.av.

Skin corrosion / irritation: According to concentration, aqueous solution causes irritation or burns of skin.

Serious eye damage / irritation: Powder may cause eye irritation with susceptible persons.

According to concentration, aqueous solution causes irritation or burns of eyes.

Respiratory or skin sensitisation: None.

Germ cell mutagenicity: n.av.

Carcinogenicity: n.av.

Reproductive toxicity: n.av.

STOT-single exposure: n.av.

STOT-repeated exposure: n.av.

Aspiration hazard: n.av.

11.1.1 – Practical Experience

11.1.11 n.av.

11.1.12 Practical Experience

Observations relevant for classification:

None.

Further Observations:

Risk of infection of the lung after prolonged inhalation of dust particles.

SECTION 12: Ecological information**12.1 Toxicity**

We have no quantitative data concerning the ecological effects of this product.

12.2 Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

n.av.

12.4 Mobility in soil

n.av.

12.5 Results of PBT and vPvB assessment

n.ap. inorganic

12.6 Other adverse effects

12.6.1 COD-Value, mg/g: n.av.

12.6.2 BOD5-Value, mg/g: n.av.

12.6.3 AOX-Remarks: Not applicable.

12.6.4 Significant Components: None.

12.6.5 Other adverse effects: Not applicable.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

13.1.1 Recommendation: D 10

Waste - Code - No.:

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

In addition comply with the regional authorities.

13.2 Contaminated Packaging

13.2.1 Recommendation: Wash with suitable cleaner. Otherwise as described under Residues.

13.2.2 Safe Handling: As described under Residues.

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SECTION 14: Transport information

| | ADR | IMDG | IATA |
|------|--------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------|
| | Not a dangerous substance as defined in the above regulations. | | |
| 14.1 | UN number | | |
| 14.2 | UN proper shipping name | | |
| 14.3 | Transport hazard class(es) | | |
| 14.4 | Packing group | | |
| 14.5 | Environmental hazards | | |
| 14.6 | Special precautions for user | | |
| | Transport category: Classification Code: Hazard - No.: LQ: | | Packing Instructions (Passenger) Packing Instructions (Cargo) |
| 14.7 | Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | | |

SECTION 15: Regulatory information

- 15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**
REACH Annex XVII / 47
- 15.2 **Chemical safety assessment :**
n.ap.

SECTION 16: Other information**Text of H phases mentioned in Section 3**

n.ap.

This datasheet has been compiled in accordance with EU regulation 2015/830.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

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