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

1.1. Product identifier
Schlüter KERDI-COLL-RL

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture
Adhesives, sealants
Reactive powder for KERDI-COLL-L

Uses advised against
Only use for the intended purpose.
The product is intended for professional use.

1.3. Details of the supplier of the safety data sheet
Company name: Schlüter-Systems KG
Street: Schmölestraße 7
Place: D-58640 Iserlohn
Telephone: +49 (0)2371 971-0
Telefax: +49 (0)2371 971-111
Email: info@schlueter.de
Responsible Department: International Technical Network (ITN)
Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department or the NHS enquiry service.

1.4. Emergency telephone number:
Poison Control Center (Mayence, GER): +49 (0)6131 - 19240 (24h - de, en)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Regulation (EC) No. 1272/2008
Hazard categories:
Serious eye damage/eye irritation: Eye Dam. 1
Respiratory or skin sensitisation: Skin Sens. 1

Hazard Statements:
Causes serious eye damage.
May cause an allergic skin reaction.

2.2. Label elements
Regulation (EC) No. 1272/2008
Cement, portland, chemicals
Signal word: Danger
Pictograms:

Hazard statements
H318 Causes serious eye damage.

Precautionary statements
P102 Keep out of reach of children.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Do not discard content/container with household waste and forward for disposal according to regional/national guidelines.

2.3. Other hazards
Cement product for which the amount of chromium VI was decreased to < 0.0002 % by a reduction agent (related to the total dry weight). If stored properly (dry) and used within the indicated storage time, a sensitizing effect of the cement/binding agent in case of contact with the skin can be ruled out (H317 or EUH203 can thus be omitted).

May cause skin irritation.

The components in this mixture do not meet the criteria for classification as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures
Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
<th>EC No</th>
<th>Index No</th>
<th>REACH No</th>
</tr>
</thead>
<tbody>
<tr>
<td>65997-15-1</td>
<td>Cement, portland, chemicals</td>
<td>&gt;3 - &lt;10 %</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>266-043-4</td>
<td>Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, STOT SE 3; H315 H318 H317 H335</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>497-19-8</td>
<td>sodium carbonate</td>
<td>&lt;1 %</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>207-838-8</td>
<td>Eye Irrit. 2; H319</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>68475-76-3</td>
<td>Flue dust, portland cement</td>
<td>&lt;0.5 %</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>270-659-9</td>
<td>Skin Irrit. 2, Eye Dam. 1, STOT SE 3; H315 H318 H335</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
In case of troubles or persistent symptoms, consult a doctor/physician. Remove persons from danger area and lie them down. Never orally infuse something to an unconscious person. No special first aid measures necessary. A vomiting, supine person must be brought into recovery position.

After inhalation
Provide fresh air. In case of respiratory tract irritation, consult a physician. In case of irregular breathing or respiratory arrest, perform artificial respiration.

After contact with skin
Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water. Seek medical attention if problems persist.

After contact with eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing. If possible, use isotonic eye wash solution (0.9% NaCl). Subsequently, transport to an ophthalmologist/ to hospital as quickly as possible.

After ingestion
Rinse mouth, spit liquid again. Do NOT induce vomiting. Let water be drunken in little sips (dilution effect). Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Following eye contact: Causes serious eye damage.
After skin contact: May cause skin irritation. May produce an allergic reaction. Longer exposure may cause skin irritation and skin inflammation (dermatitis).
acute effects / symptoms: irritant to corrosive effects on eyes, respiratory tract and skin, damage to the gastrointestinal tract when ingested orally. Allergic reactions
chronic effects / symptoms: Irritant effect on the respiratory tract

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media
The mixture is not flammable, explosive or auto-flammable.

5.2. Special hazards arising from the substance or mixture
Thermal decomposition can lead to harmful gases and vapours.

5.3. Advice for firefighters
Co-ordinate fire-fighting measures to the fire surroundings. Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information
Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

6.2. Environmental precautions
Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up
Take up dust-free and set down dust-free. Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections
Safe handling: see section 7
Personal precautions: refer to section 8.
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling
Wear personal protection equipment. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Store only in original container. Keep container tightly closed in a cool, well-ventilated place. Keep container dry. Keep locked up and out of the reach of children.
Advice on storage compatibility
Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions
Incompatible materials: Aluminium

7.3. Specific end use(s)
Adhesives, sealants

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>fibres/ml</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>65997-15-1</td>
<td>Portland cement, respirable dust</td>
<td>-</td>
<td>4</td>
<td>-</td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
</tbody>
</table>

Additional advice on limit values
The content of soluble chromium (VI) must be kept below 2ppm (REACH, Annex XVII, Entry 47).

8.2. Exposure controls

Appropriate engineering controls
Provide washing facility at the workplace. If larger quantities are handled, provide emergency showers. Provide eye wash stations. These locations must be signposted prominently.

Protective and hygiene measures
Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink. Avoid skin, eye and clothing contact. After contact with skin, wash immediately with plenty of water and soap or a suitable cleaning agent.

Eye/face protection
Tightly fitting safety glasses with side shields.

Hand protection
When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Tested protective gloves are to be worn:
Recommended material: NBR (Nitrile rubber) (1 mm, Permeation level: 6 (>480min))

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection
Full cover clothing covering arms and legs. Avoid contact with skin.

Respiratory protection
Filtering Half-face mask (DIN EN 149), Type P1 / P2

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state:</td>
<td>solid (Powder)</td>
</tr>
<tr>
<td>Colour:</td>
<td>grey</td>
</tr>
<tr>
<td>Odour:</td>
<td>mineral</td>
</tr>
<tr>
<td>pH-Value:</td>
<td>11.5</td>
</tr>
</tbody>
</table>
### Changes in the physical state

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point</td>
<td>&gt;1250 °C</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>not determined</td>
</tr>
<tr>
<td>Flash point</td>
<td>not determined</td>
</tr>
</tbody>
</table>

### Flammability

- **Gas:** not determined

### Explosive properties

- **Gas:** not determined

### Oxidizing properties

- **Vapour pressure:** not determined
- **Density (at 25 °C):** 2,75 - 3,20 g/cm³
- **Bulk density:** 900 - 1300 kg/m³
- **Water solubility:** 0,1 - 1,5 g/L
- **Viscosity / kinematic:** not determined
- **Vapour density:** not determined

### 9.2. Other information

No further information available.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

- No dangerous reactivity under regular conditions.

#### 10.2. Chemical stability

- The product is stable under regular conditions.

#### 10.3. Possibility of hazardous reactions

- No known hazardous reactions.

#### 10.4. Conditions to avoid

- Water contact.
- After contact with water: The product hardens to a solid mass.

#### 10.5. Incompatible materials

- Strong acid. Aluminium ammonium salts

#### 10.6. Hazardous decomposition products

- Thermal decomposition can lead to harmful gases and vapours.
- In case of fire: It may produce hazardous fumes like carbon monoxide or carbon dioxide.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Acute toxicity**

- Based on available data, the classification criteria are not met.
According to Regulation (EC) No 1907/2006

**Irritation and corrosivity**
Causes serious eye damage.
Skin corrosion/irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**
Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**
Based on available data, the classification criteria are not met.

**STOT-single exposure**
Based on available data, the classification criteria are not met.

**STOT-repeated exposure**
Based on available data, the classification criteria are not met.

**Aspiration hazard**
Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### 12.1. Toxicity
No data available.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Aquatic toxicity</th>
<th>Dose</th>
<th>[h]</th>
<th>[d]</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>497-19-8</td>
<td>sodium carbonate</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>300 mg/l</td>
<td>96 h</td>
<td>Lepomis macrochirus</td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>265 mg/l</td>
<td>48 h</td>
<td>Daphnia magna</td>
<td>UCLID</td>
<td></td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

**The product is not biodegradable.**

#### 12.3. Bioaccumulative potential
No indication of bioaccumulation potential.

#### 12.4. Mobility in soil
The product hardens to a solid immobile mass.

#### 12.5. Results of PBT and vPvB assessment
The components in this mixture do not meet the criteria for classification as PBT or vPvB.

#### 12.6. Other adverse effects
No data available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**Advice on disposal**
Disposal according to official regulations. Do not dispose with household waste. Consult the local waste disposal expert about waste disposal. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

**Waste disposal number of waste from residues/unused products**
According to Regulation (EC) No 1907/2006

Safety Data Sheet

Schlüter-Systems KG

Schlüter KERDI-COLL-RL

Revision date: 16.05.2018 Product code: RCSO-SSYS-004 Page 7 of 9

170101 CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES); concrete, bricks, tiles and ceramics; Concrete

Waste disposal number of used product

101314 WASTES FROM THERMAL PROCESSES; wastes from manufacture of cement, lime and plaster and articles and products made from them; waste concrete and concrete sludge

Waste disposal number of contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packaging
Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.
Recommended cleaning agent: Water, if necessary with cleaning agent.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards
ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user
No special precautions known.

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

EU regulatory information
Restrictions on use (REACH, annex XVII):
Entry 47: Cement, portland, chemicals
2004/42/EC (VOC): < 3%

Additional information
Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable
Regulation (EC) No. 648/2004 (Detergents regulation): not applicable
Regulation (EC) No 850/2004 on persistent organic pollutants: not applicable
of dangerous chemicals: This mix contains no chemicals that are subject to the export notification procedures
(annex 1).
This mixture contains the following substances of very high concern (SVHC) which are included in the
Candidate List according to Article 59 of REACH: none
This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation
according to Annex XIV of REACH: none

National regulatory information
Water contaminating class (D): 1 - slightly water contaminating

Additional information
Observe in addition any national regulations!

15.2. Chemical safety assessment
Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes
Version 1.00 - Creation - 16.05.2018

Abbreviations and acronyms
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement
concerning the International Carriage of Dangerous Goods by Road)
CAS: Chemical Abstracts Service
EC: Effective Concentration
EG: European Community (Europäische Gemeinschaft)
EN: European Norm
IATA: International Air Transport Association
IBC Code: International Code for the Construction and Equipment of ships carrying Dangerous Chemicals in
Bulk
ICAO: International Civil Aviation Organization
IMDG: International Maritime Code for Dangerous Goods
CLP: Classification, Labeling, Packaging
IUCLID: International Uniform Chemical Information Database
LC: Lethal concentration
LD: Lethal dose
log Kow: Octanol/water partition coefficient
MARPOL: Maritime Pollution Convention = Convention for the Prevention of Maritime Pollution from Ships
OECD: Organisation for Economic Co-operation and Development
PBT: Persistent, bio-cumulative, toxic
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail
TRGS: Technische Regeln für Gefahrstoffe
VOC: Volatile Organic Compounds
vPvB: very persistent and very bio-cumulative
VwVwS: Administrative Regulation for Water Pollutants
WGK: German Water Hazard Class
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
DNEL: Derived No Effect Level
TLV: Threshold Limiting Value
STOT: Specific Target Organ Toxicity

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

<table>
<thead>
<tr>
<th>Classification</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Dam. 1; H318</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Skin Sens. 1; H317</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

Relevant H and EUH statements (number and full text)

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Further Information

The information given in this safety data sheet is to describe the product's safety regulations. It is not for guaranteeing certain characteristics and is based on today's knowledge. The safety data sheet was generated upon information of pre-suppliers by:

asseo AG, Frohsinnstraße 28, 63739 Aschaffenburg, Germany
Phone: +49 (0)6021 - 1 50 86-0, Fax: +49 (0)6021 - 1 50 86-77, E-Mail: eu-sds@asseso.eu, www.asseso.eu

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)