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

1.1. Product identifier
Trade name/designation:
ALBILEX-Chlordioxid Komponente A

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture:
Industrial uses

1.3. Details of the supplier of the safety data sheet
Supplier (manufacturer/importer/only representative/downstream user/distributor):
ALBILEX GmbH & Co. KG
Achtzehnmorgenweg 3
61250 Usingen
Telephone: +49-6081-10400
Telefax: +49-6081-104040
E-mail: info@albilex.de
Website: www.albilex.de

1.4. Emergency telephone number
Notfallauskunft: The Emergency telephone is available during Europäen time zone office time between 8 am and 5 pm on working days., +49-6081-10400 (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]:

<table>
<thead>
<tr>
<th>Hazard classes and hazard categories</th>
<th>Hazard statements</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corrosive to metals (Met. Corr. 1)</td>
<td>H290: May be corrosive to metals.</td>
<td>Harmonised (legal) classification.</td>
</tr>
</tbody>
</table>

2.2. Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms:

GHS05 Corrosion

Signal word: Warning

hazard statements for physical hazards

| H290 | May be corrosive to metals. |

2.3. Other hazards
Other adverse effects:
No risks worthy of mention.

SECTION 3: Composition / information on ingredients

3.1. Mixtures
Description:
P:A-Chlordioxid A
### Hazardous ingredients / Hazardous impurities / Stabilisers:

<table>
<thead>
<tr>
<th>Product identifiers</th>
<th>Substance name</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS No.: 7647-01-0</td>
<td>hydrogen chloride</td>
<td>Skin Corr. 1B, STOT SE 3 &lt;br&gt; <strong>Danger</strong> H314-H335</td>
<td>0 – 1%</td>
</tr>
<tr>
<td>EC No.: 231-595-7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>REACH No.: 01-2119484862-27-XXXX</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Full text of H- and EUH-phrases: see section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**General information:**
Move victim out of danger zone.

**Following inhalation:**
Remove casualty to fresh air and keep warm and at rest.

**In case of skin contact:**
After contact with skin, wash immediately with plenty of water and soap.

**After eye contact:**
If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

**After ingestion:**
Let water be drunken in little sips (dilution effect).

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

No known symptoms to date.

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

After ingestion Let water be drunken in little sips (dilution effect).

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media:**
Co-ordinate fire-fighting measures to the fire surroundings. The product itself does not burn.

#### 5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Corrosive vapours of acid.

#### 5.3. Advice for firefighters

Use appropriate respiratory protection.

#### 5.4. Additional information

Higher amounts of product in fire water, it must neutralized with sodium hydroxide.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

**Personal precautions:**
Remove persons to safety. Wear personal protection equipment.

##### 6.1.2. For emergency responders

No data available

#### 6.2. Environmental precautions

No data available

#### 6.3. Methods and material for containment and cleaning up

**For cleaning up:**
Pump away bigger amounts. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Wash with plenty of water.

#### 6.4. Reference to other sections

No data available
6.5. Additional information
Only give to sewage system after neutralization.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Protective measures
Advices on safe handling:
Measures to prevent aerosol and dust generation

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels:
Keep container tightly closed. Suitable material for Container: Polyethylene Polypropylen
Hints on storage assembly:
Do not store together with: Base

7.3. Specific end use(s)
Recommendation:
No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
8.1.1. Occupational exposure limit values

<table>
<thead>
<tr>
<th>Limit value type (country of origin)</th>
<th>Substance name</th>
<th>① long-term occupational exposure limit value</th>
<th>② short-term occupational exposure limit value</th>
<th>③ instantaneous value</th>
<th>④ Monitoring and observation processes</th>
<th>⑤ remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRGS 900 (DE)</td>
<td>hydrogen chloride CAS No.: 7647-01-0</td>
<td>① 2 ppm (3 mg/m³)</td>
<td>② 4 ppm (6 mg/m³)</td>
<td>③ (Hydrogenchlorid)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IOELV (EU)</td>
<td>hydrogen chloride CAS No.: 7647-01-0</td>
<td>① 5 ppm (8 mg/m³)</td>
<td>② 10 ppm (15 mg/m³)</td>
<td>③ (Hydrogen chloride)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.1.2. biological limit values
No data available

8.1.3. DNEL-/PNEC-values
No data available

8.2. Exposure controls
8.2.1. Appropriate engineering controls
No data available

8.2.2. Personal protection equipment
Eye/face protection:
Tightly sealed safety glasses. oder Face protection shield
Skin protection:
Suitable material: NBR (Nitrile rubber) Butyl caoutchouc (butyl rubber)
Thickness of the glove material: 0.4 mm; 0.7 mm
Breakthrough time (maximum wearing time): > 8h
Respiratory protection:
Suitable respiratory protection apparatus: B2
Other protection measures:
Protective clothing: Chemical resistant safety shoes Chemical protection clothing acid-resistant
General health and safety measures: When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

8.2.3. Environmental exposure controls
No data available
8.3. Additional information
No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

**Appearance**
- **Physical state:** liquid
- **Colour:** colourless
- **Odour:** odourless

**Safety relevant basis data**

<table>
<thead>
<tr>
<th>parameter</th>
<th>at °C</th>
<th>Method</th>
<th>remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>0.9 - 1.1</td>
<td>20 °C</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>0 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freezing point</td>
<td></td>
<td></td>
<td>not determined</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>100 °C</td>
<td></td>
<td>pressure: 1013 mbar</td>
</tr>
<tr>
<td>Decomposition temperature (°C):</td>
<td></td>
<td></td>
<td>not determined</td>
</tr>
<tr>
<td>Flash point</td>
<td></td>
<td></td>
<td>not determined</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td></td>
<td></td>
<td>not determined</td>
</tr>
<tr>
<td>Ignition temperature in °C</td>
<td></td>
<td></td>
<td>not determined</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td></td>
<td></td>
<td>not determined</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td></td>
<td></td>
<td>not determined</td>
</tr>
<tr>
<td>Vapour density</td>
<td></td>
<td></td>
<td>not determined</td>
</tr>
<tr>
<td>Density</td>
<td>1 - 1.5 g/cm³</td>
<td>20 °C</td>
<td></td>
</tr>
<tr>
<td>Bulk density</td>
<td></td>
<td></td>
<td>not determined</td>
</tr>
<tr>
<td>Water solubility (g/L)</td>
<td></td>
<td></td>
<td>not determined</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td></td>
<td></td>
<td>not determined</td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td></td>
<td></td>
<td>not determined</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td></td>
<td></td>
<td>not determined</td>
</tr>
</tbody>
</table>

9.2. Other information
No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
Materials to avoid Alkali (lye); Hypochlorit; The product develops hydrogen in an aqueous solution in contact with metals.

10.2. Chemical stability
No data available

10.3. Possibility of hazardous reactions
In case of fire may be liberated: Corrosive vapours of acid.

10.4. Conditions to avoid
No data available

10.5. Incompatible materials
Alkali (lye); Hypochlorit; The product develops hydrogen in an aqueous solution in contact with metals.

10.6. Hazardous decomposition products
No self decomposition on normal use

SECTION 11: Toxicological information

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Substance name</th>
<th>Toxicological information</th>
</tr>
</thead>
</table>
| 7647-01-0 | hydrogen chloride | **LD₉₀ oral:** 900 mg/kg (Kaninchen)  
**LC₅₀ inhalative:** 3,124 ppmV 1 h (Ratte) |
Skin corrosion/irritation:
an der Haut: Leichte Reizwirkung
am Auge: Leichte Reizwirkung

SECTION 12: Ecological information

12.1. Toxicity
Aquatic toxicity:
Concentrated solution toxic for aquatic life due to pH-shift
Effects in sewage plants:
After neutralization all organic components are readily biodegradable.

12.2. Persistence and degradability
Additional information:
Further ecological information: After neutralization all organic components are readily biodegradable.

12.3. Bioaccumulative potential
Accumulation / Evaluation:
Additional information: No data available

12.4. Mobility in soil
No data available

12.5. Results of PBT and vPvB assessment

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Substance name</th>
<th>Results of PBT and vPvB assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>7647-01-0</td>
<td>Hydrochloric acid</td>
<td>—</td>
</tr>
</tbody>
</table>

No data available

12.6. Other adverse effects
Further ecological information: No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Only give to sewage system after neutralization.

Waste treatment options
Appropriate disposal / Package:
Wash with water and give to plastic recycling.

13.2. Additional information
No data available

SECTION 14: Transport information

14.1. UN-No.

<table>
<thead>
<tr>
<th>Land transport (ADR/RID)</th>
<th>Inland waterway craft (ADN)</th>
<th>Sea transport (IMDG)</th>
<th>Air transport (ICAO-TI / IATA-DGR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1789</td>
<td>1789</td>
<td>1789</td>
<td>1789</td>
</tr>
</tbody>
</table>

14.2. UN proper shipping name

HYDROCHLORIC ACID

14.3. Transport hazard class(es)

<table>
<thead>
<tr>
<th>Land transport (ADR/RID)</th>
<th>Inland waterway craft (ADN)</th>
<th>Sea transport (IMDG)</th>
<th>Air transport (ICAO-TI / IATA-DGR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
</tbody>
</table>

14.4. Packing group

III   III   III

14.5. Environmental hazards

-   -   No   -
### 14.6. Special precautions for user

<table>
<thead>
<tr>
<th>Land transport (ADR/RID)</th>
<th>Inland waterway craft (ADN)</th>
<th>Sea transport (IMDG)</th>
<th>Air transport (ICAO-TI / IATA-DGR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard identification number (Kemler No.): 80</td>
<td>Classification code: -</td>
<td>Classification code: -</td>
<td>remark: EmS-No.: F-A, S-B</td>
</tr>
<tr>
<td>Classification code: -</td>
<td>remark: Classification code: C1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

**Additional information:**
Keep away from food, drink and animal feedingstuffs.

### SECTION 15: Regulatory information

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

**15.1.1. EU legislation**
No data available

**15.1.2. National regulations**

Germany [DE] National regulations

**Water hazard class (WGK)**

<table>
<thead>
<tr>
<th>WGK</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>schwach wassergefährdend</td>
</tr>
</tbody>
</table>

**Other regulations, restrictions and prohibition regulations**

Merkblatt BG Chemie M 004, M 051

#### 15.2. Chemical Safety Assessment

No data available

#### 15.3. Additional information

No data available

### SECTION 16: Other information

#### 16.1. Indication of changes

No data available

#### 16.2. Abbreviations and acronyms

No data available

#### 16.3. Key literature references and sources for data

No data available

#### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

<table>
<thead>
<tr>
<th>Hazard classes and hazard categories</th>
<th>Hazard statements</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corrosive to metals (Met. Corr. 1)</td>
<td>H290: May be corrosive to metals.</td>
<td>Harmonised (legal) classification.</td>
</tr>
</tbody>
</table>

#### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

<table>
<thead>
<tr>
<th>Hazard statements</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
</tbody>
</table>

#### 16.6. Training advice

No data available
16.7. Additional information
The data presented here correspond to the present state of our knowledge and experience and are intended to describe our product with respect to possible safety demands. We imply with this however no guarantee of properties or description of qualities.