## CA Buster HCl 10l

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

### 1.1. Product identifier

**Trade name/designation:**

CA Buster HCl 10l

**Article No.:**
T102010

**UFI:**
SVD0-NJPK-NCSS-34R4

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

**Use of the substance/mixture:**
Descaling products

**Relevant identified uses:**

**Process categories [PROC]**

**PROC 8a:** Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
**PROC 8b:** Transfer of substance or mixture (charging and discharging) at dedicated facilities
**PROC 10:** Roller application or brushing
**PROC 11:** Non industrial spraying

### * 1.3. Details of the supplier of the safety data sheet

**Supplier:**

**KANDO Service GmbH**
Hartleitnerstraße 3
4653 Eberstalzell
Austria
**Telephone:** +43 (0) 7241 213 79
**E-mail:** msds@kando.eu

### 1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (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]**

| Hazard classes and hazard categories | Hazard statements | Classification procedure |
|---|---|---|
| Corrosive to metals *(Met. Corr. 1)* | H290: May be corrosive to metals. | On basis of test data. |
| Skin corrosion/irritation *(Skin Corr. 1B)* | H314: Causes severe skin burns and eye damage. | Calculation method. |
| Serious eye damage/eye irritation *(Eye Dam. 1)* | H318: Causes serious eye damage. | Calculation method. |
| STOT-single exposure *(STOT SE 3)* | H335: May cause respiratory irritation. | Calculation method. |

## CA Buster HCl 10l

### 2.2. Label elements

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard pictograms:**



**GHS05**
Corrosion



**GHS07**
Exclamation mark

**Signal word:** Danger

**Hazard components for labelling:**
hydrogen chloride

| **Hazard statements for physical hazards** | |
|---|---|
| H290 | May be corrosive to metals. |

| **Hazard statements for health hazards** | |
|---|---|
| H314 | Causes severe skin burns and eye damage. |
| H335 | May cause respiratory irritation. |

| **Precautionary statements Prevention** | |
|---|---|
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/protective clothing and eye protection/face protection. |

| **Precautionary statements Response** | |
|---|---|
| P301 + P330 + P331 | IF SWALLOWED: rinse mouth. Do NOT induce vomiting. |
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. |
| 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. |

* 

### 2.3. Other hazards

**Other adverse effects:**
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The inhalation of dust/mist or aerosols causes irritation of the respiratory tract.

## SECTION 3: Composition/information on ingredients

* 

### 3.2. Mixtures

**Additional information:**
Labelling for contents according to regulation (EC) No. 648/2004
< 5% non-ionic surfactants, perfumes (Benzyl benzoate)

## CA Buster HCl 10l

**Hazardous ingredients / Hazardous impurities / Stabilisers:**

| Product identifiers | Substance name<br>Classification according to Regulation (EC) No 1272/2008 [CLP] | Concentration |
|---|---|---|
| CAS No.: 7647-01-0<br>EC No.: 231-595-7 | **hydrogen chloride**<br>Eye Dam. 1 (H318), Met. Corr. 1 (H290), STOT SE 3 (H335), Skin Corr. 1A (H314)<br> Danger<br>**Specific concentration limit (SCL)**<br>Skin Corr. 1B; H314: 25% ≤ C < 100%<br>Skin Irrit. 2; H315: 10% ≤ C < 25%<br>Eye Irrit. 2; H319: 10% ≤ C < 25%<br>STOT SE 3; H335: 10% ≤ C < 100%<br>**Acute Toxicity Estimate**<br>ATE (oral) > 700 mg/kg<br>ATE (dermal) > 5,000 mg/kg<br>ATE (inhalation, dust/mist) 1.68 mg/L | 5 – < 10 % |
| CAS No.: 68439-50-9 | **Alkyl polyethoxilate**<br>Acute Tox. 4 (H302), Aquatic Chronic 3 (H412), Eye Dam. 1 (H318)<br> Danger<br>**Acute Toxicity Estimate**<br>ATE (oral) 500 mg/kg<br>ATE (dermal) > 2,000 mg/kg<br>ATE (inhalation, dust/mist) > 5 mg/L | 1 – < 5 % |
| CAS No.: 812-00-0<br>EC No.: 212-379-1<br>REACH No.: 01-2120769124-54 | **methyl dihydrogen phosphate**<br>Skin Corr. 1B (H314)<br> Danger | 1 – < 5 % |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General information:**
Remove contaminated, saturated clothing immediately.

**Following inhalation:**
Provide fresh air.

**In case of skin contact:**
After contact with skin, wash immediately with plenty of water and soap.
Take off contaminated clothing and wash it before reuse.

**After eye contact:**
Rinse immediately carefully and thoroughly with eye-bath or water.

**Following ingestion:**
Rinse mouth immediately and drink 1 glass of of water.
Do NOT induce vomiting.

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

No information available.

### 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:**
Water spray jet, alcohol resistant foam, Carbon dioxide, Extinguishing powder

**Unsuitable extinguishing media:**
Full water jet

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

**Hazardous combustion products:**
Carbon dioxide, Carbon monoxide

### 5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings.

### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

### 6.1.1. For non-emergency personnel

**Personal precautions:**
Avoid contact with skin, eyes and clothes.

**Protective equipment:**
Use personal protection equipment.

**Emergency procedures:**
Ventilate affected area.

### 6.1.2. For emergency responders

**Personal protection equipment:**
Wear breathing apparatus if exposed to vapours/dusts/aerosols.

### 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

**For containment:**
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

**For cleaning up:**
Treat the recovered material as prescribed in the section on waste disposal.

**Other information:**
Collect in closed and suitable containers for disposal.

### 6.4. Reference to other sections

Personal protection equipment: see section 8
Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

### Protective measures

**Advices on safe handling:**
Avoid contact with skin, eyes and clothes.
Do not mix with other chemicals.
Use personal protection equipment.
When using do not eat, drink, smoke, sniff.
Do not breathe gas/fumes/vapour/spray.
Use only in well-ventilated areas.

**Fire prevent measures:**
No special fire protection measures are necessary.

### Advices on general occupational hygiene

Take off contaminated clothing.
Wash hands before breaks and after work.
When using do not eat, drink, smoke, sniff.

### 7.2. Conditions for safe storage, including any incompatibilities

**Requirements for storage rooms and vessels:**
Keep container tightly closed.

**Hints on storage assembly:**
No special measures are necessary.

**Storage class (TRGS 510, Germany):** 8B – Non-combustible corrosive substances

**Further information on storage conditions:**
No further relevant information available.

### 7.3. Specific end use(s)

**Recommendation:**
Cleaning agent

**Industrial sector specific solutions:**
GISCODE Sanitary cleaner, irritant, with volatile acids

**GISCODE:**
GS85

## SECTION 8: Exposure controls/personal protection

* 

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

| Limit value type (country of origin) | Substance name | ① Long-term occupational exposure limit value<br>② Short-term occupational exposure limit value<br>③ Instantaneous value<br>④ Monitoring and observation processes<br>⑤ Remark |
|---|---|---|
| MAK (AT) | **hydrogen chloride**<br>CAS No.: 7647-01-0<br>EC No.: 231-595-7 | ② 10 ppm (15 mg/m³)<br>⑤ (Chlorwasserstoff; max. 8x5 min./Schicht, Momentanwert) |
| MAK (AT) | **hydrogen chloride**<br>CAS No.: 7647-01-0<br>EC No.: 231-595-7 | ① 5 ppm (8 mg/m³)<br>⑤ (Chlorwasserstoff) |
| IOELV (EU)<br>from 2 Jan 1900 | **hydrogen chloride**<br>CAS No.: 7647-01-0<br>EC No.: 231-595-7 | ① 5 ppm (8 mg/m³)<br>② 10 ppm (15 mg/m³) |

#### 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 information available.

#### 8.2.2. Personal protection equipment



**Eye/face protection:**
Wear eye protection/face protection. (EN 166)

**Skin protection:**
Wear gloves for protection against chemicals according to EN 374. (Breakthrough time: >10 min)
Suitable material: NBR (Nitrile rubber)
Thickness of the glove material >= 0,1 mm
A list of suitable makes with detailed information on wearing time is available on request.

Diluted application solutions <= 1%:
Protective gloves may be dispensed with, provided equivalent protective measures are taken, taking into account increased skin exposure due to wet work (e.g. use of suitable skin protection ointments).

Body protection: Wear suitable work clothing.

**Respiratory protection:**
Use only in well-ventilated areas.
In case of inadequate ventilation wear respiratory protection. (EN 14387, A1)

**Thermal hazards:**
No further relevant information available.

### 8.2.3. Environmental exposure controls
SECTION 6: Accidental release measures

## SECTION 9: Physical and chemical properties

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

**Appearance**

**Physical state:** Liquid
**Form:** Liquid
**Colour:** green
**Odour:** Perfumes, fragrances
**flammability:** No data available

**Safety relevant basis data**

| Parameter | Value | at °C | ① Method<br>② Remark |
|---|---|---|---|
| pH | ≈ 0 | 20 °C | |
| Melting point | 0 °C | | |
| Freezing point | 0 °C | | |
| Initial boiling point and boiling range | ≈ 100 °C | | |
| Flash point | *not applicable* | | |
| Evaporation rate | *No data available* | | |
| Auto-ignition temperature | *No data available* | | |
| Upper/lower flammability or explosive limits | *No data available* | | |
| Vapour pressure | *No data available* | | |
| Vapour density | *No data available* | | |
| Density | 1.05 g/cm³ | 20 °C | |
| Bulk density | *not applicable* | | |
| Water solubility | completely miscible | 20 °C | |
| Dynamic viscosity | < 10 mPa* s | 25 °C | ② (50 1/s) |
| Kinematic viscosity | *No data available* | | |

### 9.2. Other information
No information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity
Corrosive to metals.
Exothermic reaction with: Alkali (lye)

### 10.2. Chemical stability
The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions
Corrosive to metals.
Exothermic reaction with: Alkali (lye)

### 10.4. Conditions to avoid
The product is stable under storage at normal ambient temperatures.

### 10.5. Incompatible materials
Corrosive to metals.
Alkali (lye)

### 10.6. Hazardous decomposition products
No known hazardous decomposition products.

## SECTION 11: Toxicological information

* 
### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

| | |
|---|---|
| **Alkyl polyethoxilate** | CAS No.: 68439-50-9 |
| **$LD_{50}$ oral:** 500 mg/kg (Rat) | |
| **$LD_{50}$ dermal:** >2,000 mg/kg (Rat) | |
| **$LC_{50}$ Acute inhalation toxicity (dust/mist):** >5 mg/L (Rat) | |
| **hydrogen chloride** | CAS No.: 7647-01-0 EC No.: 231-595-7 |
| **$LD_{50}$ oral:** >700 mg/kg (Rat) | |
| **$LD_{50}$ dermal:** >5,000 mg/kg (Rabbit) | |
| **$LC_{50}$ Acute inhalation toxicity (dust/mist):** 1.68 mg/L 1 h (Rat) | |

**Acute oral toxicity:**
Based on available data, the classification criteria are not met.
**Acute dermal toxicity:**
Based on available data, the classification criteria are not met.
**Acute inhalation toxicity:**
Based on available data, the classification criteria are not met.
**Skin corrosion/irritation:**
Causes severe skin burns and eye damage.
**Serious eye damage/irritation:**
Causes serious eye damage.
**Respiratory or skin sensitisation:**
Based on available data, the classification criteria are not met.
**Germ cell mutagenicity:**
Based on available data, the classification criteria are not met.
**Carcinogenicity:**
Based on available data, the classification criteria are not met.
**Reproductive toxicity:**
Based on available data, the classification criteria are not met.
**STOT-single exposure:**
May cause respiratory irritation.
**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.

### 11.2. Information on other hazards
**Endocrine disrupting properties:**
No information available.

## SECTION 12: Ecological information

### * 12.1. Toxicity

| | |
|---|---|
| **Alkyl polyethoxilate** | CAS No.: 68439-50-9 |
| **$LC_{50}$:** >1 mg/L 4 d (fish) | |
| **$EC_{50}$:** >1 mg/L 2 d (crustaceans) | |
| **$ErC_{50}$:** >1 mg/L (Algae/water plant) | |
| **$EC_{50}$:** >1 – 10 mg/L 2 d (crustaceans) | |
| **$LC_{50}$:** 1 – 10 mg/L 4 d (fish) | |
| **hydrogen chloride** | CAS No.: 7647-01-0 EC No.: 231-595-7 |
| **$LC_{50}$:** 282 mg/L 4 d (fish) | |

**Assessment/classification:**
No information available.

### 12.2. Persistence and degradability

| | |
|---|---|
| **Alkyl polyethoxilate** | CAS No.: 68439-50-9 |
| **Biodegradation:** Yes, rapidly | |
| **Remark:** Readily biodegradable (according to OECD criteria). | |
| **methyl dihydrogen phosphate** | CAS No.: 812-00-0 EC No.: 212-379-1 |
| **Biodegradation:** Yes, rapidly | |

**Additional information:**
The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

### 12.3. Bioaccumulative potential

**Accumulation / Evaluation:**
No indication of bioaccumulation potential.

### 12.4. Mobility in soil

The product has not been tested.

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

| | |
|---|---|
| **Alkyl polyethoxilate** | CAS No.: 68439-50-9 |
| **Results of PBT and vPvB assessment:** — | |
| **methyl dihydrogen phosphate** | CAS No.: 812-00-0 EC No.: 212-379-1 |
| **Results of PBT and vPvB assessment:** — | |
| **hydrogen chloride** | CAS No.: 7647-01-0 EC No.: 231-595-7 |
| **Results of PBT and vPvB assessment:** — | |

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### * 12.7. Other adverse effects

water hazard class 1: slightly hazardous to water

## SECTION 13: Disposal considerations

### * 13.1. Waste treatment methods

Dispose of waste according to applicable legislation. Delivery to an approved waste disposal company.

### 13.1.1. Product/Packaging disposal

**Waste codes/waste designations according to EWC/AVV**

**Waste code product**

| | |
|---|---|
| 06 01 02 * | hydrochloric acid |

**: Evidence for disposal must be provided.*

## CA Buster HCl 10l

**Directive 2008/98/EC (Waste Framework Directive)**

| | |
|---|---|
| HP 8 | Corrosive |

**Waste code packaging**

| | |
|---|---|
| 15 01 02 | Plastic packaging |

### Waste treatment options

**Appropriate disposal / Package:**
Non-contaminated packages may be recycled.

## SECTION 14: Transport information

| Land transport (ADR/RID) | Inland waterway craft (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|---|---|---|---|
| **14.1. UN number or ID number** | | | |
| UN 1789 | UN 1789 | UN 1789 | UN 1789 |
| * **14.2. UN proper shipping name** | | | |
| HYDROCHLORIC ACID | HYDROCHLORIC ACID | HYDROCHLORIC ACID | HYDROCHLORIC ACID |
| * **14.3. Transport hazard class(es)** | | | |
|  8 |  8 |  8 |  8 |
| **14.4. Packing group** | | | |
| III | III | III | III |
| **14.5. Environmental hazards** | | | |
| No | No | No | No |
| **14.6. Special precautions for user** | | | |
| **Special Provisions:** 520<br>**Limited quantity (LQ):** 5 L<br>**Excepted Quantities (EQ):** E1<br>**Hazard identification number (Kemler No.):** 80<br>**Classification code:** C1<br>**Tunnel restriction code:** (E)<br>**Remark:** Transport category: 3 | **Special Provisions:** 520<br>**Limited quantity (LQ):** 5 L<br>**Excepted Quantities (EQ):** E1<br>**Classification code:** C1 | **Special Provisions:** 223<br>**Limited quantity (LQ):** 5 L<br>**Excepted Quantities (EQ):** E1<br>**EmS-No.:** F-A, S-B | **Special Provisions:** A3 \| A803<br>**Limited quantity (LQ):** Y841<br>**Excepted Quantities (EQ):** E1<br>**Remark:** IATA Packing Instructions - Passenger: 852<br>IATA Maximum Quantity - Passenger: 5 L<br>IATA-Verpackungsanweisung - Cargo: 856<br>IATA Maximum Quantity - Cargo: 60 L |

### 14.7. Maritime transport in bulk according to IMO instruments
not applicable

## SECTION 15: Regulatory information

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

### 15.1.1. EU legislation

**Restrictions on use:**
Restrictions on use (REACH, Annex XVII) Entry 3, Entry 75

**Other regulations (EU):**
Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: This product is not assigned to a hazard category.

Regulation (EC) No. 648/2004 [Detergents regulation]

**Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:**
Volatile organic compounds (VOC) content in percent by weight: 0.3 Vol-%

### 15.1.2. National regulations
No data available

### 15.2. Chemical Safety Assessment
Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

* 
### 16.1. Indication of changes

| | |
|---|---|
| 1.2. | Relevant identified uses of the substance or mixture and uses advised against |
| 1.3. | Details of the supplier of the safety data sheet |
| 2.1. | Classification of the substance or mixture |
| 2.3. | Other hazards |
| 3.2. | Mixtures |
| 8.1. | Control parameters |
| 9.1. | Information on basic physical and chemical properties |
| 11.1. | Information on hazard classes as defined in Regulation (EC) No 1272/2008 |
| 12.1. | Toxicity |
| 12.5. | Results of PBT and vPvB assessment |
| 12.7. | Other adverse effects |
| 13.1. | Waste treatment methods |
| 14.2. | UN proper shipping name |
| 14.3. | Transport hazard class(es) |
| 15.1. | Safety, health and environmental regulations/legislation specific for the substance or mixture |
| 15.3. | Additional information |
| 16.1. | Indication of changes |
| 16.4. | Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP] |
| 16.5. | List of relevant hazard statements and/or precautionary statements from sections 2 to 15 |

### 16.2. Abbreviations and acronyms

| | |
|---|---|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| CAS | Chemical Abstracts Service |
| CLP | Classification, Labelling and Packaging |
| DNEL | derived no-effect level |
| $EC_{50}$ | Effective Concentration 50% |
| EN | European Standard |
| ES | Exposure scenario |
| EWC | European Waste Catalogue |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |
| IMO | International Maritime Organization |
| $LC_{50}$ | Lethal (fatal) Concentration 50% |
| $LD_{50}$ | Lethal (fatal) Dose 50% |
| MAK | Maximum concentration in the workplace air (CH) |
| NFPA | National Fire Protection Association |
| NIOSH | National Institute for Occupational Safety & Health |
| OECD | Organisation for Economic Cooperation and Development |
| OSHA | Occupational Safety & Health Administration |
| PBT | persistent and bioaccumulative and toxic |
| PC | Product category |
| PNEC | Predicted No Effect Concentration |

| | |
|---|---|
| PROC | Process Category |
| REACH | Registration, Evaluation and Authorization of Chemicals |
| RID | Dangerous goods regulations for transport by rail |
| SCL | Specific concentration limit |
| TRGS | Technische Regeln für Gefahrstoffe |
| UN | United Nations |
| VOC | Volatile organic compounds |

### 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) No 1272/2008 [CLP]

| Hazard classes and hazard categories | Hazard statements | Classification procedure |
|---|---|---|
| Corrosive to metals *(Met. Corr. 1)* | H290: May be corrosive to metals. | On basis of test data. |
| Skin corrosion/irritation *(Skin Corr. 1B)* | H314: Causes severe skin burns and eye damage. | Calculation method. |
| Serious eye damage/eye irritation *(Eye Dam. 1)* | H318: Causes serious eye damage. | Calculation method. |
| STOT-single exposure *(STOT SE 3)* | H335: May cause respiratory irritation. | Calculation method. |

### * 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

| Hazard statements | |
|---|---|
| H290 | May be corrosive to metals. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |

### 16.6. Training advice
No data available

### 16.7. Additional information
To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

* Data changed compared with the previous version.