

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

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## CA Buster HCI 200I

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

#### 1.1. Product identifier

Trade name/designation:

CA Buster HCI 200I

Article No.:

T102200

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

Process Category [PROC]: 8, 10, 11

#### 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 ( <i>Met. Corr. 1</i> )	H290: May be corrosive to metals.	
Skin corrosion/irritation ( <i>Skin Corr. 1B</i> )	H314: Causes severe skin burns and eye damage.	
STOT-single exposure ( <i>STOT SE 3</i> )	H335: May cause respiratory irritation.	

#### 2.2. Label elements

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

Hazard pictograms:



**GHS05**

Corrosion



**GHS07**

Exclamation mark

Signal word: Danger

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### Hazard components for labelling:

Hydrochloric acid

#### 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

#### Adverse human health effects and symptoms:

Avoid breathing dust/fume/gas/mist/vapours/spray.

#### Other adverse effects:

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

## 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)

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
EC No.: 231-595-7 REACH No.: 01-2119484862-27	<b>Hydrochloric acid</b> STOT SE 3 (H335), Skin Corr. 1B (H314) ⚠️ Danger <b>Specific concentration limit (SCL)</b> Skin Corr. 1B; H314: $25\% \leq C < 100\%$ Skin Irrit. 2; H315: $10\% \leq C < 25\%$ Eye Irrit. 2; H319: $10\% \leq C < 25\%$ STOT SE 3; H335: $10\% \leq C < 100\%$	5 - < 10 Vol-%
CAS No.: 68439-50-9	<b>Alkyl polyethoxilate</b> Acute Tox. 4 (H302), Aquatic Chronic 3 (H412), Eye Dam. 1 (H318) ⚠️ Danger	1 - < 5 Vol-%
CAS No.: 812-00-0 EC No.: 212-379-1 REACH No.: 01-2120769124-54	<b>methyl dihydrogen phosphate</b> Skin Corr. 1B (H314) ⚠️ Danger	1 - < 5 Vol-%

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.

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### 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 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.

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### 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 ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	<b>Hydrochloric acid</b> EC No.: 231-595-7	② 10 ppm (15 mg/m <sup>3</sup> ) ⑤ (Chlorwasserstoff; max. 8x5 min./Schicht, Momentanwert)
MAK (AT)	<b>Hydrochloric acid</b> EC No.: 231-595-7	① 5 ppm (8 mg/m <sup>3</sup> ) ⑤ (Chlorwasserstoff)

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## CA Buster HCI 200I

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
IOELV (EU)	Hydrochloric acid EC No.: 231-595-7	① 5 ppm (8 mg/m <sup>3</sup> ) ② 10 ppm (15 mg/m <sup>3</sup> ) ⑤ (Hydrogen chloride)

### 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  $\geq 0,1$  mm

A list of suitable makes with detailed information on wearing time is available on request.

Diluted application solutions  $\leq 1\%$ :

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

Colour: green

Odour: Perfumes, fragrances

#### Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	$\approx 0$	20 °C	
Melting point	0 °C		
Freezing point	0 °C		

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Parameter	Value	at °C	① Method ② Remark
Initial boiling point and boiling range	≈ 100 °C		
Flash point	<i>not applicable</i>		
Evaporation rate	<i>No data available</i>		
Auto-ignition temperature	<i>No data available</i>		
Upper/lower flammability or explosive limits	<i>No data available</i>		
Vapour pressure	<i>No data available</i>		
Vapour density	<i>No data available</i>		
Density	1.05 g/cm <sup>3</sup>	20 °C	
Bulk density	<i>not applicable</i>		
Water solubility	completely miscible	20 °C	
Dynamic viscosity	< 10 mPa*s	25 °C	
Kinematic viscosity	<i>No data available</i>		

### 9.2. Other information

No information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Corrosive to metals.

Exothermic reaction with: Alkali (Iye)

### 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 (Iye)

### 10.4. Conditions to avoid

The product is stable under storage at normal ambient temperatures.

### 10.5. Incompatible materials

Corrosive to metals.

Alkali (Iye)

### 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

<b>Hydrochloric acid</b> EC No.: 231-595-7
<b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (Rat)
<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rat)
<b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> 700 ppmV (Rat)
<b>Alkyl polyethoxilate</b> CAS No.: 68439-50-9
<b>LD<sub>50</sub> oral:</b> 500 mg/kg (Rat)
<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rat)
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >5 mg/L (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.

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### 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

<b>Hydrochloric acid</b> EC No.: 231-595-7
LC <sub>50</sub> : 862 mg/L 4 d (fish, <i>Leuciscus idus</i> (Goldorfe))
<b>Alkyl polyethoxilate</b> CAS No.: 68439-50-9
LC <sub>50</sub> : >1 mg/L 4 d (fish)
EC <sub>50</sub> : >1 mg/L 2 d (crustaceans)
ErC <sub>50</sub> : >1 mg/L (Algae/water plant)

### Assessment/classification:

No information available.

### 12.2. Persistence and degradability

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

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### 12.5. Results of PBT and vPvB assessment

<b>Hydrochloric acid</b> EC No.: 231-595-7
<b>Results of PBT and vPvB assessment:</b> —
<b>Alkyl polyethoxilate</b> CAS No.: 68439-50-9
<b>Results of PBT and vPvB assessment:</b> —
<b>methyl dihydrogen phosphate</b> CAS No.: 812-00-0 EC No.: 212-379-1
<b>Results of PBT and vPvB assessment:</b> —

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

No information available.

## 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
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\*: Evidence for disposal must be provided.

##### Waste code packaging





15 01 02	Plastic packaging
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### 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)
<b>14.1. UN number or ID number</b>			
UN 1789	UN 1789	UN 1789	UN 1789
<b>14.2. UN proper shipping name</b>			
HYDROCHLORIC ACID, SOLUTION	HYDROCHLORIC ACID, SOLUTION	HYDROCHLORIC ACID, SOLUTION	HYDROCHLORIC ACID, SOLUTION
<b>14.3. Transport hazard class(es)</b>			
 8	 8	 8	 8
<b>14.4. Packing group</b>			
III	III	III	III
<b>14.5. Environmental hazards</b>			
No	No	No	No
<b>14.6. Special precautions for user</b>			
<b>Special Provisions:</b> 520	<b>Special Provisions:</b> 520	<b>Special Provisions:</b> 223	<b>Special Provisions:</b> A3   A803
<b>Limited quantity (LQ):</b> 5 L	<b>Limited quantity (LQ):</b> 5 L	<b>Limited quantity (LQ):</b> 5 L	<b>Limited quantity (LQ):</b> Y841



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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>Excepted Quantities (EQ):</b> E1 <b>Hazard identification number (Kemler No.):</b> 80 <b>Classification code:</b> C1 <b>Tunnel restriction code:</b> (E) <b>Remark:</b> Transport category: 3	<b>Excepted Quantities (EQ):</b> E1 <b>Classification code:</b> C1	<b>Excepted Quantities (EQ):</b> E1 <b>EmS-No.:</b> F-A, S-B	<b>Excepted Quantities (EQ):</b> E1 <b>Remark:</b> IATA Packing Instructions - Passenger: 852 IATA Maximum Quantity - Passenger: 5 L IATA-Verpackungsanweisung - Cargo: 856 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):

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

No data available

### 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 <sub>50</sub>	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 <sub>50</sub>	Lethal (fatal) Concentration 50%
LD <sub>50</sub>	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)

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NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
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 ( <i>Met. Corr. 1</i> )	H290: May be corrosive to metals.	
Skin corrosion/irritation ( <i>Skin Corr. 1B</i> )	H314: Causes severe skin burns and eye damage.	
STOT-single exposure ( <i>STOT SE 3</i> )	H335: May cause respiratory irritation.	

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

Hazard statements	
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.