Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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

1.1. Product identifier

Trade name/designation:

ALBILEX-Chlorbleichlauge

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 Europaen 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]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Corrosive to metals *(Met. Corr. 1)*	H290: May be corrosive to metals.	
Skin corrosion/irritation *(Skin Corr. 1B)*	H314: Causes severe skin burns and eye damage.	
Hazardous to the aquatic environment *(Aquatic Acute 1)*	H400: Very toxic to aquatic life.	
Hazardous to the aquatic environment *(Aquatic Chronic 2)*	H411: Toxic to aquatic life with long lasting effects.	

Additional information:

Additional information: Concentrated solution toxic for aquatic life due to pH-shift

2.2. Label elements

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

Hazard pictograms:

GHS05
Corrosion

GHS09
Environment

Signal word: Danger

hazard statements for physical hazards	
H290	May be corrosive to metals.

hazard statements for health hazards	
H314	Causes severe skin burns and eye damage.

hazard statements for environmental hazards	
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Supplemental Hazard information (EU)	
EUH031	Contact with acids liberates toxic gas.

Precautionary statements Prevention	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements Response	
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/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/doctor/....

Precautionary statements Storage	
P403 + P235	Store in a well-ventilated place. Keep cool.

2.3. Other hazards

Adverse physicochemical effects:
Contact with acids liberates toxic gas.

Adverse human health effects and symptoms:
Causes burns.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description:
Natriumhypochloritlösung 13% Aktivchlorgehalt

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No. 1272/2008 [CLP]	Concen-tration
CAS No.: 7681-52-9 **EC No.:** 231-668-3 **REACH No.:** 01-2119488154-34-XXXX	**sodium hypochlorite** Skin Corr. 1B, Aquatic Acute 1  **Danger** H314-H400-EUH031	10 – 25 %

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). Do NOT induce vomiting. Seek medical advice.

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

Causes burns.

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

Causes burns. Do NOT induce vomiting.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

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

5.2. Special hazards arising from the substance or mixture

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

Do not allow to enter into surface water or drains.

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

Send to a hazardous waste incinerator facility under observation of official regulations.

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:

Do not keep the container sealed. Suitable material for Container: Polyethylene Polypropylen Unsuitable material for Container: Light metal Keep container in a well-ventilated place. Protect against: Light

Hints on storage assembly:

Do not store together with: Acid

7.3. Specific end use(s)

Recommendation:

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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: PVC (Polyvinyl chloride) Butyl caoutchouc (butyl rubber)
Thickness of the glove material: 0,5 mm; 0,5 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:** yellow
Odour: Chlorine

Safety relevant basis data

parameter		at °C	Method	remark
pH	11.5 – 12.5	20 °C		Gehalt an gelöster Substanz: 20 g / L
Melting point/freezing point	*not determined*			
Freezing point	*not determined*			
Initial boiling point and boiling range	102 °C			pressure: 1013 mbar
Decomposition temperature (°C):	*not determined*			
Flash point	*not determined*			
Evaporation rate	*not determined*			
Ignition temperature in °C	*not determined*			
Upper/lower flammability or explosive limits	*not determined*			
Vapour pressure	*not determined*			
Vapour density	*not determined*			
Density	1.2 – 1.3 g/cm³	20 °C		
Bulk density	*not determined*			
Water solubility (g/L)	*not determined*			
Partition coefficient: n-octanol/ water	*not determined*			
Dynamic viscosity	2.7 – 2.9 s	20 °C	DIN 53211	
Kinematic viscosity	*not determined*			

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Materials to avoid Acid

10.2. Chemical stability

No data available

10.3. Possibility of hazardous reactions

Corrosive vapours of acid.

10.4. Conditions to avoid
UV-radiation/sunlight

10.5. Incompatible materials
Acid

10.6. Hazardous decomposition products
Chlorine

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
7681-52-9	sodium hypochlorite	**LD_{50} oral:** 2,900 mg/kg (Maus) **LD_{50} dermal:** 2,000 mg/kg (Kaninchen) **LC_{50} inhalative:** 10.5 mg/l (Ratte)

Skin corrosion/irritation:
Causes burns.

SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
7681-52-9	sodium hypochlorite	**LC_{50}:** 0.032 mg/l 4 d **LC_{50}:** 0.032 mg/l 2 d **EC_{50}:** 0.04 mg/l 2 d **EC_{50}:** 46 mg/l 4 d

Terrestrial toxicity:
Fischtoxizität: LC50 Pimephales promelas 0,22 - 0,62 mg/l 96h
Daphnientoxizität: EC 50 Daphnia magna 2,1 mg/l 96h
Algentoxizität: EC50 Scenedesmus subspicatus 28 mg/l 24h

Effects in sewage plants:
Nicht ohne Vorbehandlung in die Kanalisation gelangen lassen. Desinfektionswirkung beeinflußt die Wirkung der Kläranlage.

12.2. Persistence and degradability
Additional information:
Further ecological information: Inorganic product which is not eliminable from water through biological cleaning processes.

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

CAS No.	Substance name	Results of PBT and vPvB assessment
7681-52-9	sodium hypochlorite	—

No data available

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Send to a hazardous waste incinerator facility under observation of official regulations.

Waste treatment options
Appropriate disposal / Package:
Wie ungebrauchtes Produkt entsorgen.

13.2. Additional information
No data available

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN-No.			
1791	1791	1791	1791
14.2. UN proper shipping name			
HYPOCHLORITE SOLUTION	HYPOCHLORITE SOLUTION	HYPOCHLORITE SOLUTION	HYPOCHLORITE SOLUTION
14.3. Transport hazard class(es)			
 8	 8	 8	 8
14.4. Packing group			
II		II	
14.5. Environmental hazards			
No data available			
14.6. Special precautions for user			
Special provisions: **Limited quantity (LQ):** **Hazard identification number (Kemler No.):** 80 **Classification code:** - **remark:** Classification code: C9	**Special provisions:** **Limited quantity (LQ):** **Classification code:** - **remark:**	**Special provisions:** **Limited quantity (LQ):** **EmS-No.:** **remark:** EmS-No.: F-A, S-B	**Special provisions:** **Limited quantity (LQ):** **remark:**

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

[DE] National regulations

Water hazard class (WGK)

WGK:
2 - deutlich wassergefährdend

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]:

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Skin corrosion/irritation *(Skin Corr. 1B)*	H314: Causes severe skin burns and eye damage.	
Hazardous to the aquatic environment *(Aquatic Acute 1)*	H400: Very toxic to aquatic life.	
Hazardous to the aquatic environment *(Aquatic Chronic 2)*	H411: Toxic to aquatic life with long lasting effects.	

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

Hazard statements	
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.

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.