

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.12.2020

Version number 201

Revision: 10.12.2020

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

#### 1.1 Product identifier

**Trade name** KT-Alka

**UFI:** W710-80EV-W008-3K9S

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

No further relevant information available.

**Application of the substance / the mixture** Alkaline cleaner/ detergent

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

**Manufacturer/Supplier:**

Chemtec Chemicals GmbH

August-Siemsen-Straße 13

D-21521 Dassendorf

Germany

Phone: +49 4104 91897 99

E-Mail: [info@ctc-chemtec.de](mailto:info@ctc-chemtec.de)

**Informing department:** Product safety department

#### 1.4 Emergency telephone number:

Medical Emergency information in case of poisoning:

Poison Information Center Mainz - 24h - Phone: +49 (0) 6131 19240 (advisory service in German or English language)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

#### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

**Hazard pictograms**



GHS05

**Signal word** Danger

**Hazard-determining components of labelling:**

potassium hydroxide

hexyl D-glucoside

**Hazard statements**

H314 Causes severe skin burns and eye damage.

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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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/doctor.

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Description: Mixture of the substances listed below with harmless additions (aqueous solution).

#### Dangerous components:

CAS: 1310-58-3 EINECS: 215-181-3 Reg.nr.: 01-2119487136-33	potassium hydroxide Met. Corr. 1, H290; Skin Corr. 1A, H314; Acute Tox. 4, H302	2.5-10%
CAS: 54549-24-5 EINECS: 259-217-6 Reg.nr.: 01-2119492545-29	hexyl D-glucoside Eye Dam. 1, H318	2.5-10%
CAS: 160875-66-1 Polymer	2-Propylheptanoethoxylat (5 EO) Eye Dam. 1, H318	<2.5%

#### SVHC

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

#### Regulation (EC) No 648/2004 on detergents / Labelling for contents

non-ionic surfactants	<5%
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Additional information For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice: Instantly remove any clothing soiled by the product.

After inhalation Supply fresh air; consult doctor in case of symptoms.

#### After skin contact

Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, seek medical advice.

#### After eye contact

Rinse immediately opened eye for several minutes under running water. Then consult doctor.

#### After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; instantly call for medical help.

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

No further relevant information available.

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

No further relevant information available.

### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

##### **Suitable extinguishing agents**

Use fire fighting measures that suit the environment.

Carbon dioxide, extinguishing powder, water jet or alcohol-resistant foam.

**For safety reasons unsuitable extinguishing agents** Water with a full water jet.

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

Can be released in case of fire:

organic decomposition products

#### **5.3 Advice for firefighters**

##### **Protective equipment:**

See section 8.

Wear full protective suit with self-contained breathing apparatus.

##### **Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Endangered containers in the surrounding area should be cooled with a water-hose.

### **SECTION 6: Accidental release measures**

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

Wear protective equipment and keep unprotected persons away.

Avoid contact with skin, eyes and clothing. Do not breathe vapour. Ventilate contaminate area thoroughly. Shut off leaks, if possible without personal risk.

#### **6.2 Environmental precautions:**

Dilute with much water.

If large amounts are released, the authorities must be informed.

Do not allow to enter drainage system, surface or ground water.

#### **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

#### **6.4 Reference to other sections** No dangerous materials are released.

### **SECTION 7: Handling and storage**

#### **7.1 Precautions for safe handling** Store in cool, dry place in tightly closed containers.

**Information about protection against explosions and fires:** No special measures required.

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

##### **Storage**

##### **Requirements to be met by storerooms and containers:**

Observe official regulations on storage and handling of water hazardous substances

**Information about storage in one common storage facility:** Do not store together with acids.

**Further information about storage conditions:** Keep container tightly sealed.

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**7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

**Additional information about design of technical systems:** No further data; see item 7.

### 8.1 Control parameters

**Components with critical values that require monitoring at the workplace:**

**CAS: 1310-58-3 potassium hydroxide (2.5-10%)**

**WEL** Short-term value: 2 mg/m<sup>3</sup>

#### **DNELs**

**CAS: 1310-58-3 potassium hydroxide**

<b>Inhalative</b>	DNEL (worker)	1 mg/m <sup>3</sup> (Long-term - local effects)
	DNEL (population)	1 mg/m <sup>3</sup> (Long-term - local effects)

**Additional information:** The lists that were valid during the compilation were used as basis.

### 8.2 Exposure controls

#### **Personal protective equipment**

##### **General protective and hygienic measures**

Keep away from food, beverages and fodder.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Gases, fumes and aerosols should not be inhaled.

**Breathing equipment:** Not necessary if room is well-ventilated.

#### **Protection of hands:**

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### **Material of gloves**

Nitrile rubber, NBR, recommended thickness of the material: ≥ 0.4 mm, penetration time: ≥ 480 min.

Butylrubber, BR, recommended thickness of the material: ≥ 0.5 mm, penetration time: ≥ 480 min.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Tightly sealed safety glasses.

#### **Body protection:**

Standard protective clothing. Chemical resistant safety-shoes or boots. If skin contact is possible, wear impenetrable protective clothing against this solvent.

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### SECTION 9: Physical and chemical properties

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

##### General Information

##### Appearance:

<b>Form:</b>	Fluid
<b>Colour:</b>	brownish
<b>Smell:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.

**pH-value (10 g/l) at 20 °C:** ca. 11

##### Change in condition

<b>Melting point/freezing point:</b>	Not determined
<b>Initial boiling point and boiling range:</b>	100 °C

**Flash point:** Product is non-flammable nor potentially explosive

**Inflammability (solid, gaseous)** Not applicable.

**Decomposition temperature:** Not determined.

**Self-inflammability:** Product is not selfigniting.

**Explosive properties:** Product is not potentially explosive

##### Critical values for explosion:

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

**Vapour pressure at 20 °C:** 23 hPa

<b>Density at 20 °C</b>	1.046 g/cm <sup>3</sup>
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.

##### Solubility in / Miscibility with

**Water:** Fully miscible

**Partition coefficient: n-octanol/water:** Not determined.

##### Viscosity:

<b>dynamic:</b>	Not determined.
<b>kinematic:</b>	Not determined.

#### 9.2 Other information

No further relevant information available.

### SECTION 10: Stability and reactivity

**10.1 Reactivity** No further relevant information available.

#### 10.2 Chemical stability

##### Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

#### 10.3 Possibility of hazardous reactions

Reacts with strong acids

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Reacts with strong oxidizing agents

**10.4 Conditions to avoid** No further relevant information available.

**10.5 Incompatible materials:** strong oxidizing agents

**10.6 Hazardous decomposition products:**

Thermal decomposition can produce a variety of compounds, the precise nature of which will depend on the decomposition conditions.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity** Based on available data, the classification criteria are not met.

**LD/LC50 values that are relevant for classification:**

**ATE (Acute Toxicity Estimates)**

Oral	LD50	3,330 mg/kg (rat)
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**Primary irritant effect:**

**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.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**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** 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

**Aquatic toxicity:**

**CAS: 1310-58-3 potassium hydroxide**

LC 50 / 96 h	45.4 mg/l (Oncorhynchus mykiss)
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	80 mg/l (Gambusia affinis)
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EC 50 / 48 h	40 mg/l (Aquatic invertebrates)
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	40.4 mg/l (Ceriodaphnia dubia)
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**12.2 Persistence and degradability** No further relevant information available.

**12.3 Bioaccumulative potential** No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

**Additional ecological information:**

**General notes:**

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

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Water hazard class 1 (Self-assessment): slightly hazardous for water.

#### 12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.

##### Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

##### Waste disposal key number:

Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.

**Uncleaned packagings:** Disposal must be made according to official regulations.

##### Recommendation:

After complete emptying and cleaning, send to be reconditioned or recycled.

Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning. Care should be taken that no other materials get into the packaging.

Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.

**Recommended cleaning agent:** Water, if necessary with cleaning agent.

### SECTION 14: Transport information

#### 14.1 UN-Number

ADR, IMDG, IATA UN1719

#### 14.2 UN proper shipping name

IMDG, IATA CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE)

#### 14.3 Transport hazard class(es)

##### ADR

Class 8 (C5) Corrosive substances.

Label 8

##### IMDG, IATA

Class 8 Corrosive substances.

Label 8

#### 14.4 Packing group

ADR, IMDG, IATA II

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#### 14.6 Special precautions for user

**Kemler Number:**

Warning: Corrosive substances.

**EMS Number:**

80

**Segregation groups**

F-A, S-B

**Stowage Category**

Alkalies

**Segregation Code**

A

SG22 Stow "away from" ammonium salts

SG35 Stow "separated from" SGG1-acids

#### 14.7 Transport in bulk according to

**Annex II of Marpol and the IBC Code** Not applicable.

**Transport/Additional information:**

Not dangerous according to the above specifications.

**ADR**

**Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

**Transport category**

2

**Tunnel restriction code**

E

**IMDG**

**Limited quantities (LQ)**

1L

**Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

**UN "Model Regulation":**

Void

## SECTION 15: Regulatory information

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

**TSCA (Toxic Substances Control Act)**

Not all ingredients are listed

**Canadian Domestic Substances List (DSL)**

Not all ingredients are listed

**Philippines Inventory of Chemicals and Chemical Substances**

Not all ingredients are listed

**Chinese Chemical Inventory of Existing Chemical Substances**

All ingredients are listed.

**Australian Inventory of Industrial Chemicals**

Not all ingredients are listed

**Korean Existing Chemical Inventory**

All ingredients are listed.

**New Zealand Inventory of Chemicals**

All ingredients are listed.

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#### **TCSI - Taiwan Chemical Substance Inventory**

Not all ingredients are listed

#### **Existing Chemical Substances (Japan)**

All ingredients are listed.

**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

#### **National regulations**

#### **Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

#### **Technical instructions (air):**

Class	Share in %
NK	10-25

**Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### **Relevant phrases**

Complete wording of hazard statements and risk phrases (H- and R-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

**Department issuing data specification sheet:** see item 1: Informing department

#### **Abbreviations and acronyms:**

LEV: Local Exhaust Ventilation

RPE: Respiratory Protective Equipment

RCR: Risk Characterisation Ratio (RCR= PEC/PNEC and RCR= Estimated Exposition/DNEL)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

SVHC: Substance of Very High Concern

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Met. Corr. 1: Corrosive to metals – Category 1

Acute Tox. 4: Acute toxicity - oral – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

**\* Data compared to the previous version altered.**