Tel. ++ 49 / 59 71 / 80 81 68 - 0

# Safety data sheet according to 1907/2006/EC, Article 31

Version number 108 Revision: 06.02.2017 Printing date 29.06.2017

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

- 1.1 Product identifier
- Trade name Cleaner KLT
- 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 Cleaning agent / Cleaner
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

PERKUTE - Maschinenbau GmbH

Düsterbergstr. 10 D-48432 Rheine

Fax ++ 49 / 59 71 / 80 81 68 - 1 E-Mail: info@perkute.de

- Informing department: Product safety department
- 1.4 Emergency telephone number:

Poison Control Center, Mainz Tel. 00 49 / 61 31 / 19 240

## **SECTION 2: Hazards identification**

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

Met. Corr.1 H290 May be corrosive to metals.

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

- Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

- Precautionary statements

Do not breathe dust/fume/gas/mist/vapours/spray. P260

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

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/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.

P312 Call a POISON CENTER/doctor if you feel unwell.

Dispose of contents/container in accordance with local/regional/national/international P501

regulations.

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- 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

- Dangerous components:		
CAS: 15763-76-5 EINECS: 239-854-6 Reg.nr.: 01-2119489411-37	sodium p-cumenesulphonate Eye Irrit. 2, H319	2.5-10%
CAS: 7320-34-5 tetrapotassium pyrophosphate  EINECS: 230-785-7 Eye Irrit. 2, H319  Reg.nr.: 01-2119489369-18		< 2.5%
	Alkylpolyethylenglykolether Eye Irrit. 2, H319	< 2.5%
Polymer aliphatic alcohols, alkoxylated Acute Tox. 4, H302; Eye Irrit. 2, H319		< 2.5%
CAS: 1310-58-3 EINECS: 215-181-3 Reg.nr.: 01-2119487136-33	potassium hydroxide Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318; Acute	< 1%

- Additional information For the wording of the listed hazard phrases refer to section 16.
- Composition/Ingredients

Constituents according to EC-Regulation 648/2004:

- < 5 % phosphates.
- < 5 % non-ionic surfactants,

## **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

Use eye protection.

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

- After swallowing Do not induce vomiting. Drink plenty of water. Call for medical help.
- 4.2 Most important symptoms and effects, both acute and delayed

Burning effect and pain to eyes, skin and mucous membranes. After swallowing serious irritation to oral cavity and throat as well as danger of perforation of the gullet.

- Information for doctor

Cleaning of the stomach should only be carried out with endotracheal intubation. Danger of aspiration. Renew lipid coating of the skin in order to protect against dermatitis. Symptomatic treatment.

- **4.3 Indication of any immediate medical attention and special treatment needed**No further relevant information available.

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## **SECTION 5: Firefighting measures**

- 5.1 Extinguishing media
- Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with 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:

Nitrogen oxides (NOx)

phosphorus oxide (POx)

carbon monoxide (CO)

carbon dioxide (CO2)

Reacts with base metals forming readily flammable hydrogen.

- 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained breathing apparatus.

See section 8.

- Additional information

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

Ensure adequate ventilation

Avoid eye and skin contact.

Wear protective equipment and keep unprotected persons away.

- 6.2 Environmental precautions:

Dilute with much water.

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

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

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

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

Use neutralising agent.

Ensure adequate ventilation.

Contaminated material has to be disposed as waste (see item 13).

- 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

## SECTION 7: Handling and storage

## - 7.1 Precautions for safe handling

Keep containers tightly sealed.

Prevent formation of aerosols.

Avoid contact with eyes and skin.

- Information about protection against explosions and fires:

Pay attention to general rules of internal fire prevention.

- 7.2 Conditions for safe storage, including any incompatibilities
- Storage Store in cool, dry conditions in well sealed containers.
- Requirements to be met by storerooms and containers:

Observe official regulations on storage and handling of water harzardous substances

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Provide alkali-resistant floor.

Store in original containers or in PE-containers.

- Information about storage in one common storage facility: Store away from acids.
- Further information about storage conditions: Keep container tightly sealed.
- Storage class 8 B L (VCI Konzept, 2007)
- 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

0 00	or commercial		
- Components with critical values that require monitoring at the workplace:			
1310-58-3 potassium hydroxide			
WEL Sho	WEL   Short-term value: 2 mg/m³		
- DNELs			
7320-34-5 tetrapotassium pyrophosphate			
Oral	DNEL (population)	> 70 mg/kg bw/day (Long-term - systemic effects)	
Inhalative	DNEL (worker)	2.79 - 44.08 mg/m³ (Long-term - systemic effects)	
	DNEL (population)	0.68 - 10.87 mg/m³ (Long-term - systemic effects)	
1310-58-3 potassium hydroxide			
Inhalative	DNEL (worker)	1 mg/m³ (Long-term - local effects)	
	DNEL (population)	1 mg/m³ (Long-term - local effects)	
15763-76-5 sodium p-cumenesulphonate			
Oral	DNEL (population)	3.8 mg/kg bw/day (Long-term - systemic effects)	
Dermal	DNEL (worker)	NEL (worker) 7.6 mg/kg bw/day (Long-term - systemic effects)	
	DNEL (population) 3.8 mg/kg bw/day (Long-term - systemic effects)		
Inhalative	Inhalative DNEL (worker) 53.6 mg/m³ (Long-term - systemic effects)		
	DNEL (population)	13.2 mg/m³ (Long-term - systemic effects)	
- PNECs			
7320-34-5 tetrapotassium pyrophosphate			
PNEC aqu	NEC aqua   0.05 mg/l (fresh water)		
	0.005 mg/l (marine water)		
PNEC	50 mg/l (sewage treatment plant)		
15763-76-5 sodium p-cumenesulphonate			
PNEC aqu	PNEC aqua   0.23 mg/l (fresh water)		
	2.3 mg/l (intermittent releases)		
PNEC STI	100 mg/l (380)		

- 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.

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Gases, fumes and aerosols should not be inhaled.

## - Breathing equipment:

In case of dizzling-dust breathing protection is required

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

### - Recommended filter device for short term use:

Take care of limitations and rules for the use of breathing protection equipment (BGR 190).

Combination filter ABEK-P2

### - Protection of hands:

Check protective gloves prior to each use for their proper condition.

Only use chemical-protective gloves with CE-labelling of category III.

Protective gloves.

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

## - Material of gloves

Butyl rubber, BR

Nitrile rubber. NBR

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

Change gloves if notice sign of disenchantment.

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

## SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and o	chemical properties
- General Information	
- Appearance:	
Form:	Fluid
Colour:	Colourless
- Smell:	Characteristic
- Odour threshold:	Not determined.
- pH-value at 20 °C:	13.2 (konz.)
- pH-value (10 g/l) at 20 °C:	~ 11.7
- Change in condition	
Melting point/freezing point:	Not determined
Initial boiling point and boiling range	: Not determined
- Flash point:	Product is non-flammable nor potentially explosive
- Inflammability (solid, gaseous)	Not applicable.

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	(Conta. or page 3)
- Ignition temperature:	
Decomposition temperature:	Not determined.
- Self-inflammability:	Product is not selfigniting.
- Explosive properties:	Product is not potentially explosive
- Critical values for explosion: Lower: Upper:	Not determined. Not determined.
- Vapour pressure:	Not determined.
<ul> <li>Density at 20 °C</li> <li>Relative density</li> <li>Vapour density</li> <li>Evaporation rate</li> </ul>	~ 1.05 g/cm³ Not determined. Not determined. Not determined.
- Solubility in / Miscibility with Water:	Fully miscible
- Partition coefficient: n-octanol/water:	Not determined.
- Viscosity: dynamic: kinematic: - 9.2 Other information	Not determined. Not determined. conductivity1%: 2,2 mS/cm m-Value (50): 4,5

# **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 and stored according to specifications.

- 10.3 Possibility of hazardous reactions Reacts with base metals forming hydrogen
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials:

strong oxidizing agents

Acids

- 10.6 Hazardous decomposition products:

Formation of carbon monoxide and carbon dioxide in case of fire.

Phosphorus oxides (e.g. P2O5)

Nitrogen oxides (NOx)

# **SECTION 11: Toxicological information**

- 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.

- LD/LC5	- LD/LC50 values that are relevant for classification:		
7320-34	7320-34-5 tetrapotassium pyrophosphate		
Oral	LD50	2440 mg/kg (rat, male)	
		> 2000 mg/kg (mus)	
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(Contd. of page 6) Dermal LD50 > 7940 mg/kg (rab) Inhalative LC 50 / 4 h > 1.1 mg/l (rat) 1310-58-3 potassium hydroxide LD50 273 mg/kg (rat) Oral 15763-76-5 sodium p-cumenesulphonate Oral LD50 > 2000 mg/kg (rat) LD50 > 2000 mg/kg (rab) Dermal Inhalative LC 50 / 4 h > 5 mg/l (rat) 68154-97-2 Alcohols, C10-12, ethoxylated propoxylated Oral LD50 > 2000 mg/kg (rat)

- 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 (carcinogenity, 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:		
7320-34-5 tetrapotassium pyrophosphate		
LC 50 / 96 h	LC 50 / 96 h > 100 mg/l (Oncorhynchus mykiss)	
LC 50 / 48 h	LC 50 / 48 h > 100 mg/l (Daphnia magna)	
LC 0 / 48 h	> 750 mg/l (Leuciscus idus)	
EC 50 / 48 h	EC 50 / 48 h > 100 mg/l (Daphnia magna)	
EC 50 / 72 h	EC 50 / 72 h > 100 mg/l (Desmodesmus subspicatus)	
EC 50 / 3 h	> 1000 mg/l (Bacteria)	
1310-58-3 potassium hydroxide		
LC 50 / 96 h	45.4 mg/l (Oncorhynchus mykiss)	
	80 mg/l (Gambusia affinis)	
EC 50 / 48 h	40 mg/l (Aquatic invertebrates)	
	40.4 mg/l (Ceriodaphnia dubia)	
15763-76-5 s	odium p-cumenesulphonate	
LC 50 / 96 h	> 100 mg/l (fish)	
EC 50 / 48 h	> 100 mg/l (Daphnia magna)	
EC 50 / 72 h	EC 50 / 72 h > 100 mg/l (Desmodesmus subspicatus)	
EC 50 / 3 h	> 1000 mg/l (activated sludge (method OECD 209))	
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## 68154-97-2 Alcohols, C10-12, ethoxylated propoxylated

EC 50 / 48 h 1-10 mg/l (Daphnia magna)

EC 50 / 72 h 1-10 mg/l (Scenedesmus subspicatus)

## - 12.2 Persistence and degradability

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.

- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Ecotoxical effects:
- Remark: Harmful effect on fish, plankton and other waterorganism by pH shift possible.
- Additional ecological information:
- General notes:

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

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

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- 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. If possible, send to be recycled, otherwise burn or deposit in a certified facility.

#### - 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:

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.

## **SECTION 14: Transport information**

- 14.1 UN-Number
- ADR, IMDG, IATA

UN1814

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## Trade name Cleaner KLT

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- 14.2 UN proper shipping name - ADR	1814 POTASSIUM HYDROXIDE SOLUTION
- IMDG, IATA	POTASSIUM HYDROXIDE SOLUTION MIXTURE
- 14.3 Transport hazard class(es)	
- ADR - Class - Label	8 (C5) Corrosive substances. 8
- IMDG, IATA - Class - Label	8 Corrosive substances. 8
- 14.4 Packing group - ADR, IMDG, IATA	II
- 14.5 Environmental hazards: - Marine pollutant:	Not applicable. No
<ul> <li>14.6 Special precautions for user</li> <li>Kemler Number:</li> <li>EMS Number:</li> <li>Segregation groups</li> <li>Stowage Category</li> <li>Segregation Code</li> </ul>	Warning: Corrosive substances. 80 F-A,S-B Alkalis A SG35 Stow "separated from" acids.
- 14.7 Transport in bulk according to Anno Marpol and the IBC Code	e <b>x II of</b> Not applicable.
- Transport/Additional information:	
- ADR - Limited quantities (LQ) - Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- Transport category - Tunnel restriction code	2 E
- IMDG - Limited quantities (LQ) - Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

# **SECTION 15: Regulatory information**

- UN "Model Regulation":

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

MIXTURE, 8, II

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

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

UN 1814 POTASSIUM HYDROXIDE SOLUTION

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### - Hazard pictograms



- Signal word Danger

- Hazard-determining components of labelling:

potassium hydroxide

- Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

- Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

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/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.

P312 Call a POISON CENTER/doctor if you feel unwell.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

- Directive 2012/18/EU

- Named dangerous substances - ANNEX I None of the ingredients is 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.

- 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.

- Application: Directions for use: please refer to the Technical Information Sheet
- 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.

H319 Causes serious eye irritation.

- Department issuing data specification sheet: see item 1: Informing department
- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

LEV. Local Exhaust Ventilation

RPE: Respiratory Protective Equipment

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RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)

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)

TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

vPvB: very Persistent and very Bioaccumulative Met. Corr.1: Corrosive to metals – Category 1 Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

- \* Data compared to the previous version altered.

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