

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.10.2020

Version number 107

Revision: 12.10.2020

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

- 1.1 Product identifier

- Trade name **Cleaner KLT**

- UFI: Y600-606D-E00K-5CKE

- 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

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

Fax ++ 49 / 59 71 / 80 81 68 - 1

E-Mail: info@perkute.de

- **Informing department:** Product safety department

- 1.4 Emergency telephone number:

National Poisons Information Service (NPIS) - Emergency call (healthcare professionals): (+44) 844 892

0111 - 0344 892 0111

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**

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 [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.

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

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

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.10.2020

Version number 107

Revision: 12.10.2020

Trade name **Cleaner KLT**

(Contd. of page 1)

- **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 following components

- 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%
Polymer	2-Ethylhexanoethoxylat ----- Eye Irrit. 2, H319	<2.5%
CAS: 9038-29-3 EC number: 932-107-1	Decan-1-ol, propoxylated, ethoxylated (>2.5 moles EO/PO) ----- Eye Irrit. 2, H319	<2.5%
CAS: 7320-34-5 EINECS: 230-785-7 Reg.nr.: 01-2119489369-18	tetrapotassium pyrophosphate ----- 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 Tox. 4, H302	<2.5%

- **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**
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.

— GB —

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.10.2020

Version number 107

Revision: 12.10.2020

Trade name **Cleaner KLT**

(Contd. of page 2)

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 (NO_x)
phosphorus oxide (PO_x)
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.
- **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).
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**
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 hazardous substances
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)

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.10.2020

Version number 107

Revision: 12.10.2020

Trade name Cleaner KLT

(Contd. of page 3)

- **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:**

1310-58-3 potassium hydroxide

WEL Short-term value: 2 mg/m³

- DNELs

15763-76-5 sodium p-cumenesulphonate

Oral	DNEL (population)	3.8 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (worker)	7.6 mg/kg bw/day (Long-term, systemic effects)
	DNEL (population)	3.8 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	53.6 mg/m ³ (Long-term, systemic effects)
	DNEL (population)	13.2 mg/m ³ (Long-term, systemic effects)

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/m ³ (Long-term, systemic effects)
	DNEL (population)	0.68-10.87 mg/m ³ (Long-term, systemic effects)

1310-58-3 potassium hydroxide

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

- PNECs

15763-76-5 sodium p-cumenesulphonate

PNEC water	0.23 mg/l (freshwater)
	2.3 mg/l (intermittent releases)
PNEC STP	100 mg/l (380)

7320-34-5 tetrapotassium pyrophosphate

PNEC water	0.05 mg/l (freshwater)
	0.005 mg/l (Seawater)
PNEC	50 mg/l (sewage plant)

- **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:** In case of dizzying-dust breathing protection is required

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

Take care of limitations and rules for the use of breathing protection equipment (DGUV Regel 112-190).

Combination filter ABEK-P2

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.10.2020

Version number 107

Revision: 12.10.2020

Trade name Cleaner KLT

(Contd. of page 4)

- Protection of hands:

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

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties**- General Information****- Appearance:**

Form: Fluid

Colour: Colourless

- Smell: Characteristic

- Odour threshold: Not determined.

- pH-value at 20 °C: 13.3 (Konz.)

- 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.

- Decomposition temperature: Not determined.

- Self-inflammability: Product is not selfigniting.

- Explosive properties: Product is not potentially explosive

- Critical values for explosion:

Lower: Not determined.

Upper: Not determined.

- Vapour pressure: Not determined.

- Density at 20 °C ~ 1.06 g/cm³

- Relative density Not determined.

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.10.2020

Version number 107

Revision: 12.10.2020

Trade name Cleaner KLT

(Contd. of page 5)

- Vapour density	Not determined.
- Evaporation rate	Not determined.
- Solubility in / Miscibility with Water:	Fully miscible
- Partition coefficient: n-octanol/water:	Not determined.
- Viscosity: dynamic:	Not determined.
kinematic:	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 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
light metal salts
- **10.6 Hazardous decomposition products:**
Formation of carbon monoxide, carbon dioxide and nitrogen oxides in case of fire.

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:**

15763-76-5 sodium p-cumenesulphonate

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

9038-29-3 Decan-1-ol, propoxylated, ethoxylated (>2.5 moles EO/PO)

Oral	LD50	>2,000 mg/kg (rat) (OECD 401)
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7320-34-5 tetrapotassium pyrophosphate

Oral	LD50	2,440 mg/kg (rat, male)
		>2,000 mg/kg (mus)
Dermal	LD50	>7,940 mg/kg (rabbit)

1310-58-3 potassium hydroxide

Oral	LD50	>300 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.

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.10.2020

Version number 107

Revision: 12.10.2020

Trade name Cleaner KLT

(Contd. of page 6)

- **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:

15763-76-5 sodium p-cumenesulphonate

LC 50 / 96 h	>100 mg/l (fish)
EC 50 / 48 h	>100 mg/l (Daphnia magna)
EC 50 / 72 h	>100 mg/l (Desmodesmus subspicatus)
EC 50 / 3 h	>1,000 mg/l (activated sludge (method OECD 209))

9038-29-3 Decan-1-ol, propoxylated, ethoxylated (>2.5 moles EO/PO)

LC 50 / 96 h	>1-10 mg/l (Cyprinus carpio) (OECD 203)
EC 50 / 48 h (static)	>10-100 mg/l (Daphnia magna) (OECD 202)
EC 50 / 3 h	380 mg/l (bacteria) (OECD TG 209)

7320-34-5 tetrapotassium pyrophosphate

LC 50 / 96 h	>100 mg/l (Oncorhynchus mykiss)
LC 50 / 48 h	>100 mg/l (Daphnia magna)
LC 0 / 48 h	>750 mg/l (Leuciscus idus)
EC 50 / 48 h	>100 mg/l (Daphnia magna)
EC 50 / 72 h	>100 mg/l (Desmodesmus subspicatus)
EC 50 / 3 h	>1,000 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)

- 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.

15763-76-5 sodium p-cumenesulphonate

Biodegradability	>60 % (OECD 301 B)
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- 12.3 Bioaccumulative potential

No further relevant information available.

- 12.4 Mobility in soil

No further relevant information available.

- Ecotoxicological effects:

- **Remark:** Harmful effect on fish, plankton and other waterorganism by pH shift possible.

- **Other information:** The product does not contain organic halogen (AOX)

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.10.2020

Version number 107

Revision: 12.10.2020

Trade name Cleaner KLT

(Contd. of page 7)

- Additional ecological information:

- General notes:

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.

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. 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

- 14.2 UN proper shipping name

- **ADR** 1814 POTASSIUM HYDROXIDE SOLUTION MIXTURE
 - **IMDG, IATA** POTASSIUM HYDROXIDE SOLUTION MIXTURE

- 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

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.10.2020

Version number 107

Revision: 12.10.2020

Trade name Cleaner KLT

(Contd. of page 8)

- 14.5 Environmental hazards:	Not applicable.
- Marine pollutant:	No
- 14.6 Special precautions for user	Warning: Corrosive substances.
- Kemler Number:	80
- EMS Number:	F-A,S-B
- Segregation groups	Alkalis
- Stowage Category	A
- Segregation Code	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:	
- ADR	
- 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
- Transport category	2
- Tunnel restriction code	E
- IMDG	
- Limited quantities (LQ)	1L
- Excepted quantities (EQ)	Código E4 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- UN "Model Regulation":	UN 1814 POTASSIUM HYDROXIDE SOLUTION MIXTURE, 8, II

SECTION 15: Regulatory information

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

- **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**

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

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

(Contd. on page 10)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.10.2020

Version number 107

Revision: 12.10.2020

Trade name Cleaner KLT

(Contd. of page 9)

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.

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

- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

- 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

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 - oral – Category 4

(Contd. on page 11)

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

Printing date 22.10.2020

Version number 107

Revision: 12.10.2020

Trade name Cleaner KLT

(Contd. of page 10)

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.

GB