

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.01.2022

Version number 110

Revision: 28.01.2022

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

- 1.1 Product identifier

- Trade name **Cleaner KLT**

- UFI: 0850-10WT-G00S-6GY7

- 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

Restrictions on use apply to this product according to Regulation (EU) no. 1907/2006 Annex XVII (see section 15)

- 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:

This is an English-language document designed for the European region. For the emergency number and other country-specific data, please refer to the specific national versions of this safety data sheet.

Counselling Centre for Poisoning, Mainz

Tel. (+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:

Trimethyl-3-[(1-oxo-10-undecenyl)amino]propylammoniummethyl sulfat
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].

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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.

- 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: 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: 26468-86-0 Polymer	2-Ethylhexanoethoxylat Eye Irrit. 2, H319	≤2.5%
CAS: 94313-91-4 EC number: 304-990-8 Reg.nr.: 01-2120736263-59	Trimethyl-3-[(1-oxo-10-undecenyl)amino] propylammoniummethyl sulfat Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 2, H411; Skin Irrit. 2, H315	≥1-<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 Index number: 019-002-00-8 Reg.nr.: 01-2119487136-33	potassium hydroxide Met. Corr. 1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318; Acute Tox. 4, H302 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	≥0.5-<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,

< 5 % cationic 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.

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- 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.***- 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.***- 4.2 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.***- 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***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.*

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

* SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- DNELs

164462-16-2 1-methylglycin-N,N-diacetic acid, Na3-salt

Oral	DNEL (population)	85 mg/kg bw/day (Acute, systemic effects) 17 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (worker)	170 mg/kg bw/day (Long-term, systemic effects) 2,000 mg/kg bw/day (Acute - systemic + local effects)
	DNEL (population)	25 mg/kg bw/day (Long-term, systemic effects) 400 mg/kg bw/day (Acute - systemic + local effects)
Inhalative	DNEL (worker)	40 mg/m ³ (Long-term, systemic effects) 4 mg/m ³ (Long-term - local effects) 40 mg/m ³ (Acute - systemic + local effects)
	DNEL (population)	20 mg/m ³ (Long-term, systemic effects) 2 mg/m ³ (Long-term - local effects) 20 mg/m ³ (Acute - systemic + local effects)

94313-91-4 Trimethyl-3-[(1-oxo-10-undecenyl)amino]propylammoniummethyl sulfat

Oral	DNEL (population)	1.43 mg/kg bw/day (human)
Dermal	DNEL (worker)	2.9 mg/kg bw/day (human)
	DNEL (population)	1.4 mg/kg bw/day (human)
	NOAEL (population)	286 mg/kg bw/day (human)
Inhalative	NOAEL (worker)	286 mg/kg bw/day (human)
	DNEL (worker)	10.1 mg/m ³ (human)
	DNEL (population)	2.5 mg/m ³ (human)

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	NOAEC (worker)	252.1 mg/m ³ (human)
	NOAEC (population)	124.3 mg/m ³ (human)
13845-36-8 pentapotassium triphosphate		
Inhalative	DNEL (worker)	5.289 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)
- PNECs		
164462-16-2 1-methylglycin-N,N-diacetic acid, Na₃-salt		
PNEC soil	2.5 mg/kg dw (soil)	
94313-91-4 Trimethyl-3-[(1-oxo-10-undecenyl)amino]propylammoniummethyl sulfat		
PNEC water	0.00032 mg/l (freshwater)	
	0.000032 mg/l (marine water)	
	3.2 mg/l (sewage plant)	
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:** Combination filter ABEK-P2

- Protection of hands:

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.

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- 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.- **Vapour density** Not determined.- **Evaporation rate** Not determined.**- Solubility in / Miscibility with**

Water:	Fully miscible
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- **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

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- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
 - strong oxidizing agents
 - bases
 - 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:**

164462-16-2 1-methylglycin-N,N-diacetic acid, Na3-salt

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

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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26468-86-0 2-Ethylhexanoethoxylat

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

94313-91-4 Trimethyl-3-[(1-oxo-10-undecenyl)amino]propylammoniummethyl sulfat

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

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)

111109-77-4 Dipropyleneglycoldimethylether

Oral	LD50	3,300 mg/kg (rat)
Dermal	LD50	>2,000 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.
- **Subacute to chronic toxicity:**

- **STOT-repeated exposure:**

94313-91-4 Trimethyl-3-[(1-oxo-10-undecenyl)amino]propylammoniummethyl sulfat

Oral	NOAEL subchronic	286 mg/kg/d (human)
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- **Additional toxicological information:**
- **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.

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- **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:

164462-16-2 1-methylglycin-N,N-diacetic acid, Na₃-salt

LC 50 / 96 h >100 mg/l (Brachydanio rerio)

EC 50 / 48 h >100 mg/l (Daphnia magna)

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)

26468-86-0 2-Ethylhexanoethoxylat

LC 50 / 96 h 10-100 mg/l (Oncorhynchus mykiss)

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

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

94313-91-4 Trimethyl-3-[(1-oxo-10-undecenyl)amino]propylammoniummethyl sulfat

LC 50 / 96 h >251.3 mg/l (fish)

EC50/LC50 136 mg/L (Daphnia magna)

0.097 mg/L (Algae)

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)

111109-77-4 Dipropyleneglycoldimethylether

LC 50 / 96 h >1,000 mg/l (fish)

EC 50 / 24 h >1,000 mg/l (Daphnia magna)

EC 50 / 72 h >1,000 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.

- 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)

- Additional ecological information:

- General notes:

Water hazard class 2 (Self-assessment): hazardous for water.

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Do not allow product to reach ground water, water bodies or sewage system.

- 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/RID, IMDG, IATA	UN1814
- 14.2 UN proper shipping name	
- ADR/RID	1814 POTASSIUM HYDROXIDE SOLUTION
- IMDG, IATA	POTASSIUM HYDROXIDE SOLUTION
- 14.3 Transport hazard class(es)	
- ADR/RID	
- Class	8 (C5) Corrosive substances.
- Label	8
- IMDG, IATA	
- Class	8 Corrosive substances.
- Label	8
- 14.4 Packing group	
- ADR/RID, IMDG, IATA	III
- 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

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- 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/RID	
- Limited quantities (LQ)	5L
- Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- IMDG	
- Limited quantities (LQ)	5L
- Excepted quantities (EQ)	Código E4 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- UN "Model Regulation":	UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8, III

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:**
Trimethyl-3-[(1-oxo-10-undecenyl)amino]propylammoniummethyl sulfat
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.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

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- **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.

- **REGULATION (EU) 2019/1148**

- **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

- **National regulations**

- **Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

- **Other regulations, limitations and prohibitive regulations**

- **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is listed.

- **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

- **UFI market placements:**

- **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.

- **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

NOAEL: No Observed Adverse Effect Level

RPE: Respiratory Protective Equipment

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

ADR: Accord relatif au transport international 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

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 – Category 4

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

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

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

- * Data compared to the previous version altered.

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