

according to 1907/2006/EC, Article 31

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

1.1. Product identifier

Trade name Schulthess topClean

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

Schulthess Maschinen AG
Alte Steinhäuserstrasse 1 · 6330 Cham ZG
Tel: +41 52 253 51 11
info@schulthess.ch
www.schulthess.ch

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.

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.
Acute Tox. 4	H302 Harmful if swallowed.
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



GHS07

Signal word

Danger

Hazard-determining components of labelling

potassium hydroxide
Octenylsuccinic acid
trisodium nitrilotriacetate

Hazard statements	H290 H302 H314	May be corrosive to metals. Harmful if swallowed. Causes severe skin burns and eye damage.
Precautionary statements	P260 P280 P301+P330+P331 P303+P361+P353 P305+P351+P338 P312	Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor if you feel unwell.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT:	Not applicable.
vPvB:	Not applicable.

ASECTION 3: Composition/information on ingredients

3.1. Mixtures

Description:

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

Dangerous components		
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	10–25%
CAS: 5064-31-3 EINECS: 225-768-6 Index number: 607-620-00-6	trisodium nitrilotriacetate Carc. 2, H351; Acute Tox. 4, H302; Eye Irrit. 2, H319	≥ 2,5–<5%
CAS: 28805-58-5 EINECS: 249-244-1	Octenylsuccinic acid Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312	≥ 2,5–<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 % NTA (nitrilotriacetic acid) and salts thereof,
< 5 % anionic surfactants,
< 5 % non-ionic surfactants,
< 5 % phosphates

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

Instantly remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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.

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.

5.2. Special hazards arising from the substance or mixture

Reacts with light alloys forming readily flammable hydrogen.

5.3. Advice for firefighters

Protective equipment

See section 8.
Wear full protective suit with 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** Wear protective equipment and keep unprotected persons away.
- 6.2. Environmental precautions** Do not allow to enter drainage system, surface or ground water.
Dilute with much 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).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
- 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.
Avoid contact with eyes and skin.
- 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** Store in cool, dry conditions in well sealed containers.
Observe official regulations on storage and handling of water hazardous substances
Provide alkali-resistant floor.
Store in original containers or in PE-containers.
Do not use light alloy containers.
- Information about storage in one common storage facility** Do not store together with 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		
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)

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 Filter P2

Protection of hands Protective gloves.

Material of gloves Nitrile rubber, NBR
Butyl rubber, BR
Recommended thickness of the material: ≥ 0.6 mm
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.

Penetration time of glove material Material of gloves is recommended for a short-term single use to protect from splashes. For permanent usage contact manufacturer of gloves.

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

Yellow

Smell

Characteristic

pH-value (10 g/l) at 20 °C:

12,2

Melting point/freezing point

Not determined

Initial boiling point and boiling range

> 100 °C

Flash point

Product is non-flammable nor potentially explosive.

Self-inflammability

Product is not selfigniting.

Explosive properties

Product is not potentially explosive.

Density at 20 °C

1,29 g/cm³

Solubility in / Miscibility with Water:

Fully miscible

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

Exothermic reactions with acids.

Reacts with light alloys to form hydrogen.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

bases

Aluminium, zinc and other light metals.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

* SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Harmful if swallowed.

LD/LC50 values that are relevant for classification:		
1310-58-3 potassium hydroxide		
Oral	LD50	> 300 mg/kg (rat)
5064-31-3 trisodium nitrilotriacetate		
Oral	LD50	1.450 mg/kg (rat)
Dermal	LD50	> 10.000 mg/kg (rabbit)
28805-58-5 Octenylsuccinic acid		
Oral	LD50	1.190 mg/kg (rat, female) > 1.410 mg/kg (rat, male)
Dermal	LD50	> 1.700 mg/kg (rabbit)

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.

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.

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:	
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)
5064-31-3 trisodium nitrilotriacetate	
LC 50 / 96 h	98 mg/l (Oncorhynchus mykiss) 312 mg/l (Lepomis macrochirus) > 100 mg/l (Dionda nubila)
EC 50 / 48 h	> 100 mg/l (Daphnia magna)
EC 50 / 96 h	780 mg/l (Chlorella vulgaris)
EC 50 / 72 h	> 100 mg/l (Algae)

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.

Additional ecological information **General notes**

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 **Recommendation**

Disposal must be made according to official regulations.
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	UN3267
14.2. UN proper shipping name	
ADR/RID	3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (POTASSIUM HYDROXIDE, Nitriлотriacetic acid, trisodium salt)
IMDG, IATA	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (POTASSIUM HYDROXIDE, Nitriлотriacetic acid, trisodium salt)
14.3. Transport hazard class(es)	
ADR/RID	
Class	8 (C7) Corrosive substances
Label	8
IMDG, IATA	
Class	8 Corrosive substances
Label	8
14.4. Packing group	
ADR/RID, IMDG, IATA	II
14.5. Environmental hazards	
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	B
Stowage Code	SW2 Clear of living quarters.
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)	1L
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E4 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN «Model Regulation»:	UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (POTASSIUM HYDROXIDE, NITRILOTRIACETIC ACID, TRISODIUM SALT), 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



Signal word

Danger

Hazard-determining components of labelling

potassium hydroxide
Octenylsuccinic acid
trisodium nitrilotriacetate

Hazard statements

H290 May be corrosive to metals.
H302 Harmful if swallowed.
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 [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.

Directive 2012/18/EU Named dangerous substances - ANNEX I REGULATION (EC) No 1907/2006 ANNEX XVII

None of the ingredients is listed.

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

* Data compared to the previous version altered.