

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**schülke** ->

**rotasept®**      **No Change Service!**

Version  
03.05

Revision Date:  
02.07.2018

Date of last issue: 14.06.2018  
Date of first issue: 06.09.2001

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

### 1.1 Product identifier

Trade name : rotasept®

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

Use of the Sub-  
stance/Mixture : Disinfectants

Recommended restrictions  
on use : Restricted to professional users.

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

Manufacturer/ Supplier : Schülke & Mayr GmbH  
Robert-Koch-Str. 2  
  
22851 Norderstedt  
Germany  
Telephone: +49 (0)40/ 52100-0  
Telefax: +49 (0)40/ 52100318  
mail@schuelke.com  
www.schuelke.com

E-mail address of person  
responsible for the  
SDS/Contact person : Application Department  
+49 (0)40/ 521 00 8800  
ApplicationDepartment.SM@schuelke.com  
(Schülke & Mayr UK Ltd.: +44-1142543500)

### 1.4 Emergency telephone number

Emergency telephone num-  
ber : UK Poisons Emergency number: 0870 600 6266

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1	H290: May be corrosive to metals.
Skin corrosion, Category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

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- Hazard statements : H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.
- Precautionary statements : P280 Wear protective gloves/ eye 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 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.  
P501 Dispose of contents/ container to an approved waste disposal plant.
- Special labelling of certain mixtures : Labelling according to Regulation (EC) No. 648/2004: (< 5 % non-ionic surfactants)
- Further information : The product is classified in accordance with Annex I (2.6.4.5) to Regulation (EC) 1272/2008.

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.  
No special risks known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Solution of the following substances with harmless additives.

#### Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Propan-2-ol	67-63-0 200-661-7 603-117-00-0 01-2119457558-25-XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	10
Potassium hydroxide	1310-58-3 215-181-3 019-002-00-8 01-2119487136-33-XXXX	Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1A; H314	1 - 2

For explanation of abbreviations see section 16.

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Take off all contaminated clothing immediately.
- ||| If inhaled : No information available.
- In case of skin contact : Wash off immediately with plenty of water.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- If swallowed : Do NOT induce vomiting.  
Obtain medical attention.

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

- Symptoms : Treat symptomatically.

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

- Treatment : For specialist advice physicians should contact the Poisons Information Service.
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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Dry powder  
Alcohol-resistant foam  
Water spray jet  
Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

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

- Specific hazards during fire-fighting : none
- Hazardous combustion products : No hazardous combustion products are known

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Increased risk of slipping in the presence of leaked / spilled product.

**6.2 Environmental precautions**

Environmental precautions : Avoid subsoil penetration.

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

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

**6.4 Reference to other sections**

see Section 8 + 13

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Advice on safe handling : not required under normal use

Advice on protection against fire and explosion : No special protective measures against fire required.

Hygiene measures : Keep away from food and drink.

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

Requirements for storage areas and containers : Store at room temperature in the original container.

Further information on storage conditions : Keep away from heat. Keep away from direct sunlight. Keep container tightly closed. Recommended storage temperature: 5 - 25°C

Advice on common storage : Do not store near acids.

**7.3 Specific end use(s)**

Specific use(s) : none

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Propan-2-ol	67-63-0	Permissible exposure limit	200 ppm 500 mg/m <sup>3</sup>	TRGS 900
		Ceiling Limit Val-	400 ppm	TRGS 900

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		ue	1.000 mg/m3	
		Permissible exposure limit	400 ppm 980 mg/m3	OSHA
Potassium hydroxide	1310-58-3	Ceiling Limit Value	2 mg/m3	

## Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Propan-2-ol	Workers	Skin contact	Long-term exposure, Systemic effects	888 mg/kg
	Workers	Inhalation	Long-term exposure, Systemic effects	500 mg/m3
Potassium hydroxide	Workers	Inhalation	Long-term local effects	1 mg/m3

## Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Propan-2-ol	Fresh water	140,9 mg/l
	Marine water	140,9 mg/l
	Fresh water sediment	552 mg/kg
	Marine sediment	552 mg/kg
	Soil	28 mg/kg
	Intermittent use/release	140,9 mg/l
	Effects on waste water treatment plants	2251 mg/l
	Oral	160 mg/kg food

## 8.2 Exposure controls

### Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection  
Directive : The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Remarks : Splash protection: disposable nitrile rubber gloves e.g. Dermatril (layer thickness: 0.11 mm) made by KCL or gloves from other manufacturers offering the same protection. Prolonged contact: Nitrile rubber gloves e.g. Camatril (>480 Min., layer thickness: 0,40 mm) or butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0,70 mm) made by KCL or gloves from other manufacturers offering the same protection.

Protective measures : Avoid contact with skin and eyes.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

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Colour	:	colourless
Odour	:	alcohol-like
Odour Threshold	:	not determined
pH	:	13,7 (20 °C)
Melting point/freezing point	:	< -5 °C
Decomposition temperature	:	Not applicable
Boiling point/boiling range	:	ca. 80 °C
Flash point	:	36 °C Method: DIN 51755 Part 1 Other information: Does not sustain combustion.
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	ca. 34 hPa (20 °C)
Vapour density	:	No data available
Relative density	:	ca. 1,00 g/cm <sup>3</sup> (20 °C)
Solubility(ies) Water solubility	:	in all proportions (20 °C)
Partition coefficient: n- octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Flow time	:	< 15 s at 20 °C Method: DIN 53211
Explosive properties	:	No data available
Oxidizing properties	:	No data available

### **9.2 Other information**

Metal corrosion rate	:	> 6,25 mm/a Corrosive to metals Aluminium
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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

Hazardous reactions                   : reaction with acids.

### 10.4 Conditions to avoid

Conditions to avoid                   : Protect from frost, heat and sunlight.

### 10.5 Incompatible materials

Materials to avoid                   : Possible incompatibility with alkali sensitive materials.

### 10.6 Hazardous decomposition products

None reasonably foreseeable.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

Acute oral toxicity                   : Acute toxicity estimate: > 15.000 mg/kg  
Acute inhalation toxicity           : Acute toxicity estimate: > 50 mg/l  
Acute dermal toxicity               : Acute toxicity estimate: > 15.000 mg/kg

#### Skin corrosion/irritation

##### Product:

Causes severe skin burns and eye damage., Calculation method

#### Serious eye damage/eye irritation

##### Product:

Causes serious eye damage., Calculation method

#### Respiratory or skin sensitisation

##### Components:

###### **Propan-2-ol:**

Did not cause sensitisation on laboratory animals. Buehler Test, Guinea pig

###### **Potassium hydroxide:**

Did not cause sensitisation on laboratory animals. Guinea pig

#### Germ cell mutagenicity

##### Components:

###### **Propan-2-ol:**

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- Genotoxicity in vitro : Ames test, Mutagenicity (Escherichia coli - reverse mutation assay), Non mutagenic
- Genotoxicity in vivo : Mouse, Mutagenicity (micronucleus test), Non mutagenic
- Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test
- Potassium hydroxide:**
- Genotoxicity in vitro : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
- Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

### **Carcinogenicity**

#### **Components:**

##### **Propan-2-ol:**

Carcinogenicity - Assessment : Based on available data, the classification criteria are not met.

##### **Potassium hydroxide:**

Carcinogenicity - Assessment : No data available

### **Reproductive toxicity**

#### **Components:**

##### **Propan-2-ol:**

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.

##### **Potassium hydroxide:**

Reproductive toxicity - Assessment : No data available

### **STOT - single exposure**

#### **Components:**

##### **Propan-2-ol:**

May cause drowsiness or dizziness.

##### **Potassium hydroxide:**

The substance or mixture is not classified as specific target organ toxicant, single exposure.

### **STOT - repeated exposure**

#### **Components:**

##### **Propan-2-ol:**

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

##### **Potassium hydroxide:**

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **Aspiration toxicity**

No data available

### **Further information**

#### **Product:**

There is no data available for this product.



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Date of first issue: 06.09.2001**SECTION 12: Ecological information****12.1 Toxicity****Product:**Toxicity to microorganisms : EC50 : 10.700 mg/l  
Method: OECD 209**Components:****Propan-2-ol:**Toxicity to fish : LC50 (Leuciscus idus): > 100 mg/l  
Exposure time: 48 h  
Test Type: static testToxicity to daphnia and other : EC50 (Daphnia magna): > 100 mg/l  
aquatic invertebrates : Exposure time: 48 h  
Test Type: static testToxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Test Type: static test**Potassium hydroxide:**Toxicity to fish : LC50 (Gambusia affinis (Mosquito fish)): 80 mg/l  
Exposure time: 96 h  
Test Type: static testToxicity to daphnia and other : Remarks: No data available  
aquatic invertebrates

Toxicity to algae : Remarks: No data available

**12.2 Persistence and degradability****Product:**Biodegradability : Result: Readily biodegradable.  
Method: OECD 301D / EEC 84/449 C6Chemical Oxygen Demand : 3.200 mg/l  
(COD) : Test substance: 1 % solution**Components:****Propan-2-ol:**

Biodegradability : Result: Readily biodegradable.

**Potassium hydroxide:**

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

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## 12.3 Bioaccumulative potential

### Components:

#### **Propan-2-ol:**

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-octanol/water : log Pow: 0,05 (20 °C)  
Method: OECD Test Guideline 107

#### **Potassium hydroxide:**

Bioaccumulation : Remarks: Does not bioaccumulate.

## 12.4 Mobility in soil

### Components:

#### **Propan-2-ol:**

Mobility : Remarks: Mobile in soils

#### **Potassium hydroxide:**

Mobility : Remarks: Mobile in soils

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

## 12.6 Other adverse effects

### Product:

Additional ecological information : No data is available on the product itself.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of the product according to the defined EWC (European Waste Code) No.

Contaminated packaging : Take empty packaging to the recycling plant.

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Waste key for the unused product : European waste catalog (EWC) 070601  
Waste key for the unused product(Group) : Waste material of HZVA from fats, lubricants, soaps, detergents, disinfectants and personal protection products.

## SECTION 14: Transport information

### 14.1 UN number

**IMDG** : UN 1814

**IATA (Cargo)** : UN 1814

### 14.2 UN proper shipping name

**IMDG** : POTASSIUM HYDROXIDE SOLUTION

**IATA (Cargo)** : POTASSIUM HYDROXIDE, SOLUTION

### 14.3 Transport hazard class(es)

**IMDG** : 8

**IATA (Cargo)** : 8

### 14.4 Packing group

**IMDG**

Packing group : III  
Labels : 8  
EmS Code : F-A, S-B

**IATA (Cargo)**

Packing instruction (cargo aircraft) : 856  
Packing group : III  
Labels : Corrosive

### 14.5 Environmental hazards

**IMDG**

Marine pollutant : no

### 14.6 Special precautions for user

Not applicable  
For personal protection see section 8.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

Regulation (EC) No 850/2004 on persistent organic pol- : Not applicable

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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Volatile organic compounds : Volatile organic compounds (VOC) content: 10 %  
Remarks: Directive 2010/75/EC on the limitation of emissions of volatile organic compounds

Other regulations:

The surfactant(s) contained in this mixture 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.

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values.

## 15.2 Chemical safety assessment

Exempt

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## SECTION 16: Other information

### Full text of H-Statements

H225 : Highly flammable liquid and vapour.  
H290 : May be corrosive to metals.  
H302 : Harmful if swallowed.  
H314 : Causes severe skin burns and eye damage.  
H319 : Causes serious eye irritation.  
H336 : May cause drowsiness or dizziness.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Eye Irrit. : Eye irritation  
Flam. Liq. : Flammable liquids  
Met. Corr. : Corrosive to metals  
Skin Corr. : Skin corrosion  
STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response;

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EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

**Further information**

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008

Met. Corr. 1, H290	: On basis of test data.
Skin Corr. 1B, H314	: Calculation method
Eye Dam. 1, H318	: Calculation method

Changes compared with the previous edition!!!

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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