

# SAFETY DATA SHEET

According to REACH etc. (Amendment etc.) (EU Exit) Regulations 2019

**schülke** 

## **thermosept® RKF**     *No Change Service!*

Version  
03.05

Revision Date:  
05.09.2022

Date of last issue: 04.10.2021

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

#### **1.1 Product identifier**

Trade name : thermosept® RKF

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

Use of the Sub-  
stance/Mixture : Cleaning agent

Recommended restrictions  
on use : For professional users only.

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

Producer : 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

Supplier : Schülke & Mayr UK Ltd.  
Cygnet House  
1, Jenkin Road, Meadowhall  
  
Sheffield S9 1AT  
United Kingdom  
Telephone: +44 114 254 35 00  
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E-mail address of person  
responsible for the  
SDS/Contact person : Application Specialists  
+49 (0)40/ 521 00 666  
AD@schuelke.com  
(Schülke & Mayr UK Ltd.: +44-1142543500)

#### **1.4 Emergency telephone number**

Emergency telephone num-  
ber : Carechem 24 International:+44 1235 239670

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### **SECTION 2: Hazards identification**

#### **2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008) as amended by The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019)**

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### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
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 Eye Dam. 1; H318  specific concentra- tion limit Skin Corr. 1A; H314 >= 5 % Skin Corr. 1B; H314 2 - < 5 % Skin Irrit. 2; H315 0.5 - < 2 % Eye Irrit. 2; H319 0.5 - < 2 %	>= 3 - < 5

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Take off all contaminated clothing immediately.
- If inhaled : Move to fresh air.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.  
If symptoms persist, call a physician.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Obtain medical attention.
- If swallowed : Do NOT induce vomiting.  
Rinse mouth with water.  
Give small amounts of water to drink.  
Obtain medical attention.



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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 : Wear personal protective equipment.  
Avoid contact with skin, eyes and clothing.
- Advice on protection against fire and explosion : No special protective measures against fire required. The product is not flammable.
- 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
potassium hydroxide	1310-58-3	STEL	2 mg/m <sup>3</sup>	GB EH40

#### Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
potassium hydroxide	Workers	Inhalation	Long-term local effects	1 mg/m <sup>3</sup>

### 8.2 Exposure controls

#### Engineering measures

Ensure that eyewash stations and safety showers are close to the workstation location.

#### Personal protective equipment

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Eye/face protection	:	Safety glasses with side-shields conforming to EN166
Hand protection Directive	:	The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 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.
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Chemical resistant apron
Respiratory protection	:	No personal respiratory protective equipment normally required.
Protective measures	:	Avoid contact with skin and eyes.

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## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Appearance	:	liquid
Colour	:	colourless, -, yellow
Odour	:	characteristic
Odour Threshold	:	not determined
pH	:	14 (20 °C) Concentration: 100 %
Melting point/freezing point	:	< -5 °C
Decomposition temperature	:	Not applicable
Boiling point/boiling range	:	ca. 100 °C
Flash point	:	> 100 °C Method: ISO 2719
Evaporation rate	:	No data available
Upper explosion limit / Upper flammability limit	:	Not applicable

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Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	ca. 25 hPa (20 °C)
Relative vapour density	:	No data available
Density	:	1.12 - 1.13 g/cm <sup>3</sup> (20 °C)
Solubility(ies) Water solubility	:	completely soluble (20 °C)
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Viscosity Viscosity, dynamic	:	ca. 3 mPa*s Method: ISO 3219
Explosive properties	:	No data available
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

### **9.2 Other information**

||| Flammability (liquids) : Does not sustain combustion.

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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.  
Possible incompatibility with alkali sensitive materials.

### **10.4 Conditions to avoid**

Conditions to avoid : No data available

### **10.5 Incompatible materials**

Materials to avoid : Acids  
Ammonium salts

### **10.6 Hazardous decomposition products**

None reasonably foreseeable.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### **Acute toxicity**

Not classified based on available information.

#### **Product:**

Acute oral toxicity                                 :    Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

#### **Components:**

##### **potassium hydroxide:**

Acute oral toxicity                                 :    LD50 (Rat): 365 mg/kg  
Method: OECD Test Guideline 425  
Assessment: Harmful if swallowed.

Acute inhalation toxicity                         :    Remarks: No data available

Acute dermal toxicity                              :    Remarks: No data available

#### **Skin corrosion/irritation**

Causes severe burns.

#### **Components:**

##### **potassium hydroxide:**

Species     :    reconstructed human epidermis (RhE)  
Method     :    OECD Test Guideline 431  
Result     :    Corrosive after 3 minutes or less of exposure

#### **Serious eye damage/eye irritation**

Causes serious eye damage.

#### **Components:**

##### **potassium hydroxide:**

Species     :    Rabbit  
Method     :    OECD Test Guideline 405  
Result     :    Irreversible effects on the eye

#### **Respiratory or skin sensitisation**

##### **Skin sensitisation**

Not classified based on available information.

##### **Respiratory sensitisation**

Not classified based on available information.

#### **Components:**

##### **potassium hydroxide:**



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Species : Guinea pig  
Result : Did not cause sensitisation on laboratory animals.

### **Germ cell mutagenicity**

Not classified based on available information.

#### **Components:**

##### **potassium hydroxide:**

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Result: negative

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

### **Carcinogenicity**

Not classified based on available information.

#### **Components:**

##### **potassium hydroxide:**

Carcinogenicity - Assessment : No data available

### **Reproductive toxicity**

Not classified based on available information.

#### **Components:**

##### **potassium hydroxide:**

Reproductive toxicity - Assessment : No data available

### **STOT - single exposure**

Not classified based on available information.

#### **Components:**

##### **potassium hydroxide:**

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

### **STOT - repeated exposure**

Not classified based on available information.

#### **Components:**

##### **potassium hydroxide:**

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

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### **Aspiration toxicity**

Not classified based on available information.

### **Further information**

#### **Product:**

Remarks : No data is available on the product itself.

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## **SECTION 12: Ecological information**

### **12.1 Toxicity**

#### **Components:**

##### **potassium hydroxide:**

Toxicity to fish : LC50 (Gambusia affinis (Mosquito fish)): 80 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae/aquatic plants : Remarks: No data available

#### **Ecotoxicology Assessment**

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

### **12.2 Persistence and degradability**

#### **Product:**

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

#### **Components:**

##### **potassium hydroxide:**

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

### **12.3 Bioaccumulative potential**

#### **Components:**

##### **potassium hydroxide:**

Bioaccumulation : Remarks: Does not bioaccumulate.

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### 12.4 Mobility in soil

#### Components:

#### 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:

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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 : Disposal together with normal waste is not allowed. Special disposal required according to local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## SECTION 14: Transport information

### 14.1 UN number

ADR : UN 1814

IMDG : UN 1814

IATA : UN 1814

### 14.2 UN proper shipping name

ADR : POTASSIUM HYDROXIDE SOLUTION

IMDG : POTASSIUM HYDROXIDE SOLUTION

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**IATA** : Potassium hydroxide solution

### **14.3 Transport hazard class(es)**

**ADR** : 8

**IMDG** : 8

**IATA** : 8

### **14.4 Packing group**

#### **ADR**

Packing group : II  
Classification Code : C5  
Hazard Identification Number : 80  
Labels : 8  
Tunnel restriction code : (E)

#### **IMDG**

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

#### **IATA (Cargo)**

Packing instruction (cargo aircraft) : 855  
Packing instruction (LQ) : Y840  
Packing group : II  
Labels : Corrosive

#### **IATA (Passenger)**

Packing instruction (passenger aircraft) : 851  
Packing instruction (LQ) : Y840  
Packing group : II  
Labels : Corrosive

### **14.5 Environmental hazards**

#### **ADR**

Environmentally hazardous : no

#### **IMDG**

Marine pollutant : no

### **14.6 Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Not applicable for product as supplied.

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## **SECTION 15: Regulatory information**

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

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### Relevant EU provisions transposed through retained EU law

- |   |   |  |
|---|---|--|
| UK REACH List of restrictions (Annex 17)  | : | Conditions of restriction for the following entries should be considered:<br>Number on list 3                                    |
| UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation                             | : | Not applicable   |
| The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) | : | Not applicable   |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer   | : | Not applicable   |
| UK REACH List of substances subject to authorisation (Annex XIV)  | : | Not applicable   |
| Volatile organic compounds  | : | Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)<br>Not applicable |

### **Other regulations:**

#### **The components of this product are reported in the following inventories:**

- |       |   |  |
|-------|---|--|
| TCSI  | : | On the inventory, or in compliance with the inventory  |
| TSCA  | : | All substances listed as active on the TSCA inventory  |
| AIRC  | : | On the inventory, or in compliance with the inventory  |
| DSL   | : | All components of this product are on the Canadian DSL |
| ENCS  | : | On the inventory, or in compliance with the inventory  |
| ISHL  | : | On the inventory, or in compliance with the inventory  |
| KECI  | : | On the inventory, or in compliance with the inventory  |
| PICCS | : | On the inventory, or in compliance with the inventory  |
| IECSC | : | On the inventory, or in compliance with the inventory  |
| NZIoC | : | Not in compliance with the inventory                   |
| TECI  | : | On the inventory, or in compliance with the inventory  |

### **15.2 Chemical safety assessment**

Exempt

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### **SECTION 16: Other information**

#### **Full text of H-Statements**

H290 : May be corrosive to metals.  
H302 : Harmful if swallowed.  
H314 : Causes severe skin burns and eye damage.  
H318 : Causes serious eye damage.

#### **Full text of other abbreviations**

Acute Tox. : Acute toxicity  
Eye Dam. : Serious eye damage  
Met. Corr. : Corrosive to metals  
Skin Corr. : Skin corrosion  
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits  
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; 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; 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; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

##### **Classification of the mixture:**

Skin Corr. 1B                      H314

##### **Classification procedure:**

Calculation method

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Eye Dam. 1

H318

Calculation method

|| Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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.