

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke 

thermosept® RKF forte

No Change Service!

Version
02.00

Revision Date:
09.12.2015

Date of last issue: 23.05.2013
Date of first issue: 14.01.2008

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

1.1 Product identifier

Trade name : thermosept® RKF forte

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 : 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

Supplier : Schülke & Mayr UK Ltd.
Cygnet House
1, Jenkin Road, Meadowhall

Sheffield S9 1AT
United Kingdom
Telephone: +44 114 254 35 00
Telefax: +44 114 254 35 01
mail.uk@schulke.com

E-mail address of person
responsible for the
SDS/Contact person : Application Department HI
+49 (0)40/ 521 00 544
ADHI@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)

Skin corrosion, Category 1A	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)

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Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	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/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 or doctor/ physician. P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

1310-58-3 Potassium hydroxide

Special labelling of certain mixtures : Labelling according to Regulation (EC) No. 648/2004: (< 5 % Phosphonates, 5 -15 % Phosphates)

2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).
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	Index-Number CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Potassium hydroxide	019-002-00-8 1310-58-3 215-181-3 01-2119487136-33-XXXX	Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1A; H314	5 - 15

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Silic acid, potassium salt	- - - 1312-76-1 215-199-1 01-2119456888-17- XXXX	Skin Irrit. 2; H315 Eye Irrit. 2; H319	< 5
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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.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, 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. Protect unharmed eye. Obtain medical attention.
- If swallowed : Do NOT induce vomiting. Rinse mouth with water. Give small amounts of water to drink. 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.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Dry powder, Foam, Water spray jet, Carbon dioxide (CO₂)
- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : No information available.
- Specific risk from the substance or the product itself, its combustion products or evolved gases : No special risks to be expected.

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

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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).
Neutralize with hydrochloric or sulphuric acids.

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 : Prepare the working solution as given on the label(s) and/or the user instructions.
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.
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	WEL	2 mg/m ³	HSE

8.2 Exposure controls**Engineering measures**

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

Personal protective equipment

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

Hand protection

Directive : The selected protective gloves have to satisfy the specifica-

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	tions 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
Colour	: light yellow
Odour	: characteristic
Odour Threshold	: not determined
pH	: ca. 14, 20 °C, concentrate
Melting point/freezing point	: < -5 °C
Decomposition temperature	: No data available
Boiling point/boiling range	: ca. 100 °C
Flash point	: > 100 °C, ISO 2719
Evaporation rate	: No data available
Flammability (solid, gas)	: does not ignite
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapour pressure	: No data available
Relative vapour density	: No data available
Density	: ca. 1,3 g/cm ³ , 20 °C
Solubility(ies)	
Water solubility	: in all proportions , 20 °C
Partition coefficient: n-octanol/water	: Not applicable
Viscosity	
Viscosity, dynamic	: ca. 6 mPa*s, ISO 3219
Explosive properties	: Not explosive
Oxidizing properties	: Not applicable

9.2 Other information

No data available

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

reaction with acidsPossible incompatibility with alkali sensitive materials.

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Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Acids,

10.6 Hazardous decomposition products

None reasonably foreseeable.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Product:**

- | | |
|---------------------------|--|
| Acute oral toxicity | : Acute toxicity estimate: 3045 mg/kg, Estimation of acute oral toxicity, in accordance with the calculation methode presented in the GHS (Globally Harmonized System), Part 3, Chapter 3.1) |
| Acute inhalation toxicity | : Acute toxicity estimate: > 50 mg/l, in accordance with the calculation methode presented in the GHS (Globally Harmonized System), Part 3, Chapter 3.1) |
| Acute dermal toxicity | : Acute toxicity estimate: > 5000 mg/kg, in accordance with the calculation methode presented in the GHS (Globally Harmonized System), Part 3, Chapter 3.1) |

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:****Potassium hydroxide:**

Did not cause sensitisation on laboratory animals. Guinea pig

Silic acid, potassium salt:

No data available

Germ cell mutagenicity**Components:****Potassium hydroxide:**

Genotoxicity in vitro	: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
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Germ cell mutagenicity- Assessment	: Animal testing did not show any mutagenic effects.
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Silic acid, potassium salt:

Germ cell mutagenicity- Assessment	: No data available
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Carcinogenicity - Assessment : No data available

Silic acid, potassium salt:

Carcinogenicity - Assessment : No data available

Reproductive toxicity**Components:****Potassium hydroxide:**

Reproductive toxicity - Assessment : No data available

Silic acid, potassium salt:

Reproductive toxicity - Assessment : No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

Further information**Product:**

The product has not been tested.

SECTION 12: Ecological information**12.1 Toxicity****Components:****Potassium hydroxide:**

Toxicity to fish : LC50 (Gambusia affinis (Mosquito fish)): 80 mg/l, 96 h

Toxicity to daphnia and other aquatic invertebrates : No data available

Toxicity to algae : No data available

Silic acid, potassium salt:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 301 - 478 mg/l, 96 h

Toxicity to daphnia and other aquatic invertebrates : EC0 (Daphnia magna (Water flea)): > 500 mg/l, 24 h

Toxicity to algae : No data available

12.2 Persistence and degradability**Components:****Potassium hydroxide:**

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

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|| Silic acid, potassium salt:

|| Biodegradability : The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential**Components:****Potassium hydroxide:**

Bioaccumulation : Does not bioaccumulate.

|| Silic acid, potassium salt:

|| Bioaccumulation : completely soluble

12.4 Mobility in soil**Components:****Potassium hydroxide:**

Mobility : Mobile in soils

|| Silic acid, potassium salt:

|| Mobility : No data available

12.5 Results of PBT and vPvB assessment**Product:**

Assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).

12.6 Other adverse effects**Product:**

Additional ecological information : none

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.

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**

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

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

14.5 Environmental hazards

ADR

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

For personal protection see section 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 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

Legislation on the control of major-accident hazards involving dangerous substances : Directive 96/82/EC does not apply

Volatile organic compounds : none, Directive 2010/75/EC on the limitation of emissions of volatile organic compounds

Other regulations : 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

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a first list of indicative occupational exposure limit values.

15.2 Chemical Safety Assessment

Exempt

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.
H315	: Causes skin irritation.
H319	: Causes serious eye irritation.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Eye Irrit.	: Eye irritation
Met. Corr.	: Corrosive to metals
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation

(Q)SAR - (Quantitative) Structure Activity Relationship; 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; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; 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; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; 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; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; 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; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; 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; TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

Further information**II**

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|| Changes compared with the previous edition!!!

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