

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

# schülke -t

**thermosept PAA Part B**

No Change Service!

Version 02.01

Revision Date 22.01.2013

Print Date 09.01.2014

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product Identifier

Trade name : thermosept PAA Part B

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

Use of the Sub- : Additive  
stance/Mixture

Recommended restrictions : Restricted to professional users.  
on use

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

Producer/Supplier : Schülke & Mayr GmbH  
Robert-Koch-Str. 2  
22851 Norderstedt  
Germany  
Telephone: +4940521000  
Telefax: +494052100318  
mail@schuelke.com  
www.schuelke.com

Producer : BIOXAL SA - AIR LIQUIDE Group  
Route des Varennes - BP 72  
  
71103 Chalon-sur-Saône Cedex  
France  
Telephone: + 33 (0) 3 85 92 30 00  
Telefax: + 33 (0) 3 85 92 30 12

Contact person : Application Department HI  
+49 (0)40/ 521 00 544 (Schülke UK +44 114 254 3500)  
pab@schuelke.com

### 1.4 Emergency telephone number

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

Emergency telephone num- : +49 (0)40 / 52 100 -0  
ber

## 2. Hazards Identification

### 2.1 Classification of the substance or mixture

Classification (67/548/EEC, 1999/45/EC)

Corrosive

R35: Causes severe burns.

### 2.2 Label elements

Labelling according to EC Directives (1999/45/EC)

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Hazard pictograms :



Corrosive

R-phrases :

R35

Causes severe burns.

S-phrases :

S26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28

After contact with skin, wash immediately with plenty of water.

S36/37/39

Wear suitable protective clothing, gloves and eye/face protection.

S45

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

The product is classified and labelled in accordance with EC directives or respective national laws.

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 % phosphates)

**2.3 Other hazards**

No special risks known.

**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 (67/548/EEC)	Classification (REGULATION (EC) No. 1272/2008)	Concentration [%]
Potassium hydroxide	019-002-00-8 1310-58-3 215-181-3 01- 2119487136- 33-XXXX	Xn; R22 C; R35	Acute Tox. 4; H302 Skin Corr. 1A; H314 Met. Corr. 1; H290	5 - 15 %
Benzotriazole	95-14-7 202-394-1	Xn; R22	Acute Tox. 4; H302	1 - 5 %

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For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. First aid measures

### 4.1 Description of first aid measures

- General advice : Take off all contaminated clothing immediately.
- If inhaled : Move the victim to fresh air and keep him calm.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.  
Call a physician immediately.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Protect unharmed eye.  
Call a physician immediately.
- 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.

## 5. Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Water spray jet  
Dry powder  
Foam  
Carbon dioxide (CO<sub>2</sub>)

- Unsuitable extinguishing media : High volume water jet

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

- Specific hazards during fire-fighting : none

### 5.3 Advice for firefighters

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

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Specific risk from the substance or the product itself, its combustion products or evolved gases : Fire may cause evolution of:, Carbon monoxide, Carbon dioxide (CO2)

## 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 materials 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.  
Clean contaminated surface thoroughly.  
Flush with water.

### 6.4 Reference to other sections

See chapter 8 + 13

## 7. Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Handle and open container with care.  
Never return unused material to storage receptacle.

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

### 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 - 30°C

Advice on common storage : Keep away from food and drink.  
Do not store near acids.

### 7.3 Specific end use(s)

none

**8. Exposure controls/personal protection****8.1 Control parameters**

none

**8.2 Exposure controls****Engineering measures**

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

**Personal protective equipment**

Hand protection : 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.

Eye protection : Tightly fitting safety goggles  
Face-shield

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Wear as appropriate:  
Chemical resistant apron  
Boots

Hygiene measures : Keep away from food and drink.  
Take off all contaminated clothing immediately.

Protective measures : Avoid contact with skin and eyes.  
When using do not eat or drink.

**Environmental exposure controls**

General advice : Avoid subsoil penetration.

**9. Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Appearance : liquid  
Colour : yellow  
Odour : odourless

Flash point : not applicable  
Ignition temperature : not applicable  
Lower explosion limit : not applicable  
Upper explosion limit : not applicable  
Flammability : The product is not flammable.

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Explosive properties	: not applicable
Oxidizing properties	: not applicable
Auto-ignition temperature	: not applicable
pH	: > 13, 20 °C, concentrate
Melting point/freezing point	: < -5 °C
Decomposition temperature	: not applicable
Boiling point/boiling range	: ca. 100 °C
Vapour pressure	: 23 hPa, 20 °C
Density	: ca. 1,2 g/cm <sup>3</sup> , 20 °C
Water solubility	: 20 °C, in all proportions
Partition coefficient: n-octanol/water	: not applicable
Viscosity, dynamic	: no data available
Relative vapor density	: no data available
Evaporation rate	: no data available

## 9.2 Other information

None known.

## 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 acids  
Gives off hydrogen by reaction with metals.

### 10.4 Conditions to avoid

Protect from frost, heat and sunlight.

### 10.5 Incompatible materials

Possible incompatibility with alkali sensitive materials.

### 10.6 Hazardous decomposition products

Decomposition products : none

## 11. Toxicological information

### 11.1 Information on toxicological effects

Acute oral toxicity  
Potassium hydroxide : LD50: 365 mg/kg, rat  
Benzotriazole : LD50: 560 mg/kg, rat

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### Acute inhalation toxicity

|| Potassium hydroxide : no data available  
Benzotriazole : no data available

### Acute dermal toxicity

|| Potassium hydroxide : no data available  
Benzotriazole : LD50: > 2000 mg/kg, rat

### Skin irritation

Potassium hydroxide : Result: Corrosive  
Benzotriazole : May cause skin irritation in susceptible persons.

### Eye irritation

Potassium hydroxide : Result: Corrosive  
Benzotriazole : Contact with eyes may cause irritation.

### Sensitisation

Potassium hydroxide : guinea pig, Result: Did not cause sensitization on laboratory animals.  
Benzotriazole : Maximisation Test, guinea pig, Result: Did not cause sensitization on laboratory animals.

### Germ cell mutagenicity

Potassium hydroxide : Result: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

### Mutagenicity

|| Potassium hydroxide : Animal testing did not show any mutagenic effects.  
Benzotriazole : Experiments showed mutagenic effects in cultured bacterial cells.

### Carcinogenicity

|| Potassium hydroxide : no data available  
Benzotriazole : Animal testing did not show any carcinogenic effects.

### Reproductive toxicity

|| Potassium hydroxide : no data available  
Benzotriazole : According to experience not expected

### Teratogenicity

|| Potassium hydroxide : no data available

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Benzotriazole	: According to experience not expected
Further information	: The product has not been tested. The classification was made according to the calculation procedure of the Preparations Directive. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

**12. Ecological Information****12.1 Toxicity**

## Toxicity to fish

Potassium hydroxide	: LC50: 80 mg/l, 96 h, Gambusia affinis (Mosquito fish)
Benzotriazole	: LC50: 26 mg/l, 96 h, Lepomis macrochirus (Bluegill sunfish)

## Toxicity to daphnia and other aquatic invertebrates

Potassium hydroxide	: no data available
Benzotriazole	: EC50: 91 mg/l, 48 h, Daphnia magna

## Toxicity to algae

Potassium hydroxide	: no data available
Benzotriazole	: IC50: 231 mg/l, 72 h, Desmodesmus subspicatus (green algae)

**12.2 Persistence and degradability**

## Biodegradability

Potassium hydroxide	: The methods for determining biodegradability are not applicable to inorganic substances.
Benzotriazole	: Result: Biodegradable

**12.3 Bioaccumulative potential**

## Bioaccumulation

Potassium hydroxide	: Bioaccumulation is unlikely.
Benzotriazole	: no data available

Partition coefficient: n-octanol/water	: not applicable
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**12.4 Mobility in soil**

## Mobility

Potassium hydroxide	: no data available
Benzotriazole	: no data available



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### 12.5 Results of PBT and vPvB assessment

Assessment : This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

### 12.6 Other adverse effects

Additional ecological information : The product has not been tested.

### 13. Disposal considerations

#### 13.1 Waste treatment methods

Product : Dispose of the product according to the defined EWC (European Waste Code) No.  
Dispose of as hazardous waste in compliance with local and national regulations.

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.

### 14. Transport information

ADR : UN number 1814



Proper shipping name  
POTASSIUM HYDROXIDE, SOLUTION

Transport hazard class 8

Packaging group II

Environmental hazards -

Classification Code C5

ADR/RID-Labels 8

ICAO-Labels 80

IMDG : UN number 1814



Proper shipping name  
POTASSIUM HYDROXIDE, SOLUTION

Transport hazard class 8

Packaging group II

Environmental hazards -

EmS F-A, S-B

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IATA : UN number 1814



Proper shipping name  
POTASSIUM HYDROXIDE, SOLUTION  
Transport hazard class 8  
Packaging group II  
Environmental hazards -

## Special precautions for user

ADR Tunnel restriction code: E

Transport In bulk according to Annex II of MARPOL 73/78 and the IBC Code

Exempt

## 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

### 15.2 Chemical Safety Assessment

Exempt

## 16. Other information

### Full text of R-phrases referred to under sections 2 and 3

R22 Harmful if swallowed.  
R35 Causes severe burns.

### Full text of H-Statements referred to under sections 2 and 3.

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

### Further information

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.