

**Primasept Med -Biozid-****No Change Service!**

Version 00.00

Revision Date 28.07.2014

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name : Primasept Med -Biozid-

**1.2 Relevant identified uses of the substance or mixture and uses advised against**Use of the Sub-  
stance/Mixture : Disinfectants and general biocidal productsRecommended restrictions  
on use : Restricted to professional users.**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.comContact person : Application Department HI  
+49 (0)40/ 521 00 544  
pab@schuelke.com  
(Schülke & Mayr UK Ltd.: +44-1142543500)**1.4 Emergency telephone number**Emergency telephone num-  
ber : UK Poisons Emergency number: 0870 600 6266  
Emergency telephone num-  
ber : +49 (0)40 / 52 100 -0**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**The GHS hazard pictograms for Flammable liquids, Category 3 (F+), and Serious eye damage, Category 1 (S2).  
Flammable liquids, Category 3 : H226: Flammable liquid and vapour.  
Serious eye damage, Category 1 : H318: Causes serious eye damage.**Classification (67/548/EEC, 1999/45/EC)**Irritant : R10: Flammable.  
R41: Risk of serious damage to eyes.  
R67: Vapours may cause drowsiness and dizziness.**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**schülke** 

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Hazard pictograms :



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.  
H318 Causes serious eye damage.

Precautionary statements : P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P501 Dispose of contents/ container to an approved waste disposal plant.

Further information : Use biocides safely. Always read the label and product information before use.

## 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 (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Propan-1-ol	603-003-00-0 71-23-8 200-746-9 01- 2119486761- 29-XXXX	F; R11 Xi; R41 R67	Flam. Liq. 2; H225 Eye Dam. 1; H318 STOT SE 3; H336	10 %
Propan-2-ol	603-117-00-0 67-63-0 200-661-7 01- 2119457558- 25-XXXX	F; R11 Xi; R36 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	8 %
Biphenyl-2-ol	604-020-00-6 90-43-7	Xi; R36/37/38 N; R50	Eye Irrit. 2; H319 Skin Irrit. 2; H315	2 %

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	201-993-5		STOT SE 3; H335 Aquatic Acute 1; H400	
Alkylamidopropylbetain, C8-18 (even numbered)	Not Assigned 931-296-8 01- 2119488533- 30-XXXX	Xi; R41	Eye Dam. 1; H318 Aquatic Chronic 3; H412	3 - 8 %

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 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. If eye irritation persists, consult a specialist.
- If swallowed : Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. 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, Carbon dioxide (CO<sub>2</sub>), Alcohol-resistant foam, Water spray jet
- Unsuitable extinguishing media : High volume water jet

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

- Specific hazards during fire-fighting : Cool closed containers exposed to fire with water spray.

**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 chapter 13

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

Advice on safe handling : Keep away from fire (No Smoking).  
Advice on protection against fire and explosion : The hot product gives off combustible vapours.  
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.  
Do not store at temperatures above 30°C.  
Further information on storage conditions : Keep away from heat. Keep away from direct sunlight. Keep container tightly closed.  
Advice on common storage : Keep away from food and drink.

**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
Propan-2-ol	67-63-0	Ceiling Limit Value	400 ppm 1.000 mg/m <sup>3</sup>	TRGS 900
Propan-2-ol	67-63-0	Permissible exposure limit	400 ppm 980 mg/m <sup>3</sup>	OSHA
Propan-1-ol	71-23-8	Permissible exposure	200 ppm	OSHA

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	limit	500 mg/m <sup>3</sup>
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**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

Propan-1-ol	: End Use: Workers, Exposure routes: Skin contact, Potential health effects: Long-term exposure, Systemic effects, Value: 136 mg/kg End Use: Workers, Exposure routes: Inhalation, Potential health effects: Long-term exposure, Systemic effects, Value: 268 mg/kg End Use: Workers, Exposure routes: Inhalation, Potential health effects: Short-term exposure, Systemic effects, Value: 1723 mg/kg
Propan-2-ol	: End Use: Workers, Exposure routes: Skin contact, Potential health effects: Chronic effects, Value: 888 mg/m <sup>3</sup> End Use: Workers, Exposure routes: Inhalation, Potential health effects: Chronic effects, Value: 500 mg/m <sup>3</sup>
Alkylamidopropylbetain, C8-18 (even numbered)	: End Use: Workers, Exposure routes: Skin contact, Potential health effects: Long-term systemic effects, Value: 12,5 mg/kg End Use: Workers, Exposure routes: Inhalation, Potential health effects: Long-term systemic effects, Value: 44 mg/kg

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

Propan-1-ol	: Fresh water, Value: 10 mg/l Marine water, Value: 1 mg/l Soil, Value: 2,2 mg/l Marine sediment, Value: 2,28 mg/kg Fresh water sediment, Value: 22,8 mg/kg Effects on waste water treatment plants, Value: 86 mg/l Intermittent use/release, Value: 10 mg/l
Propan-2-ol	: Fresh water, Value: 140,9 mg/l Marine water, Value: 140,9 mg/l Fresh water sediment, Value: 552 mg/kg Marine sediment, Value: 552 mg/kg Soil, Value: 28 mg/kg
Alkylamidopropylbetain, C8-18 (even numbered)	: Fresh water, Value: 0,0135 mg/l Effects on waste water treatment plants, Value: 3000 mg/l Marine water, Value: 0,00135 mg/l

**8.2 Exposure controls****Personal protective equipment**

Eye protection	: If splashes are likely to occur, wear: Safety glasses with side-shields conforming to EN166
Protective measures	: Avoid contact with eyes.

**Environmental exposure controls**

General advice	: Avoid subsoil penetration.
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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Appearance	: liquid
Colour	: yellow

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Odour	: alcohol-like
Flash point	: 30 °C, DIN 51755 Part 1
Ignition temperature	: Propan-1-ol: 412 °C Propan-2-ol: 425 °C
Auto-ignition temperature	: No data available
Lower explosion limit	: Propan-1-ol: 2,1 %(V) Propan-2-ol: 2 %(V)
Upper explosion limit	: Propan-1-ol: 17,5 %(V) Propan-2-ol: 12 %(V)
Flammability	: Sustains combustion
Explosive properties	: Not explosive
Oxidizing properties	: Not applicable
pH	: 7,8 - 8,2, 20 °C, concentrate
Melting point/freezing point	: < -5 °C
Decomposition temperature	: No data available
Boiling point/boiling range	: ca. 80 °C
Vapour pressure	: ca. 45 hPa, 20 °C
Relative vapour density	: No data available
Density	: ca. 1,00 g/cm <sup>3</sup> , 20 °C
Water solubility	: in all proportions, 20 °C
Partition coefficient: n-octanol/water	: Not applicable
Viscosity, dynamic	: 400 - 700 mPa*s, 20 °C, DIN 53019
Evaporation rate	: No data available

**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**

None reasonably foreseeable.

**10.4 Conditions to avoid**

Heat, flames and sparks.

**10.5 Incompatible materials**

Strong acids and oxidizing agents

**10.6 Hazardous decomposition products**

None reasonably foreseeable.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity****Components:****Propan-1-ol:**

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Acute oral toxicity : LD50: > 2000 mg/kg, Rat  
 Acute inhalation toxicity : LC50: 33,8 mg/l, Rat  
 Acute dermal toxicity : LD50: > 5000 mg/kg, Rabbit

**Propan-2-ol:**

Acute oral toxicity : LD50: > 5000 mg/kg, Rat  
 Acute inhalation toxicity : LC50: 39 mg/l, 4 h, Rat  
 Acute dermal toxicity : LD50: > 5000 mg/kg, Rabbit

**Biphenyl-2-ol:**

Acute oral toxicity : LD50: 2980 mg/kg, Rat  
 Acute inhalation toxicity : LC0: > 36 mg/l, Rat  
 Acute dermal toxicity : LD50: > 2000 mg/kg, Rat

**Alkylamidopropylbetain, C8-18 (even numbered):**

Acute oral toxicity : LD50: > 2000 mg/kg, Rat  
 Acute inhalation toxicity : No data available  
 Acute dermal toxicity : LD50: > 2000 mg/kg, Rat

**Skin corrosion/irritation****Components:****Propan-1-ol:**

No skin irritation

**Propan-2-ol:**

No skin irritation

**Biphenyl-2-ol:**

Moderate irritant, Rabbit

**Alkylamidopropylbetain, C8-18 (even numbered):**

Mildly irritant - does not need to be labelled, Rabbit, OECD Test Guideline 404, Has a degreasing effect on the skin.

**Serious eye damage/eye irritation****Product**

Risk of serious damage to eyes.

**Respiratory or skin sensitisation****Components:****Propan-1-ol:**

Does not cause skin sensitisation. Guinea pig, Maximisation Test (GPMT)

**Propan-2-ol:**

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

**Biphenyl-2-ol:**

Did not cause sensitisation on laboratory animals. Maximisation Test (GPMT), Guinea pig

**Alkylamidopropylbetain, C8-18 (even numbered):**

Does not cause skin sensitisation. Guinea pig, OECD Test Guideline 406

**Germ cell mutagenicity****Components:****Propan-1-ol:**

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test.

**Propan-2-ol:**

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

**Biphenyl-2-ol:**

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test.

**Alkylamidopropylbetain, C8-18 (even numbered):**

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Genotoxicity in vitro	: not mutagenic Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Genotoxicity in vivo	: Mouse (male and female), Bone marrow, Mutagenicity (micronucleus test)
Germ cell mutagenicity- Assessment	: Not mutagenic in Ames Test.

**Carcinogenicity****Components:****Propan-1-ol:**

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

**Propan-2-ol:**

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

**Biphenyl-2-ol:**

Carcinogenicity - Assessment : No data available

**Alkylamidopropylbetain, C8-18 (even numbered):**

Carcinogenicity - Assessment : No data available

**Reproductive toxicity****Components:****Propan-1-ol:**

Effects on fertility : Rat, Inhalation, NOAEL: 8,6 mg/l

Effects on foetal development : Rat, Inhalation, NOAEL: 8,6 mg/l

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

Teratogenicity - Assessment : Experiments have shown reproductive toxicity effects on laboratory animals.

**Propan-2-ol:**

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

Teratogenicity - Assessment : Ingestion of excessive amounts by pregnant animals resulted in maternal and foetal toxicity.

**Biphenyl-2-ol:**

Reproductive toxicity - Assessment : No data available

Teratogenicity - Assessment : Animal testing did not show any effects on foetal development.

**Alkylamidopropylbetain, C8-18 (even numbered):**

Effects on foetal development : Rat, Oral, NOAEL: 1.000 mg/kg, NOAEL: 100 mg/kg, Test period: 15 Tage, OECD Test Guideline 414

Reproductive toxicity - Assessment : No data available

Teratogenicity - Assessment : Did not show teratogenic effects in animal experiments.

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Repeated dose toxicity**



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**Components:****|| Alkylamidopropylbetain, C8-18 (even numbered):**

|| Rat (male and female): NOAEL: 300 mg/kg, Oral, Exposure time: 90 Tage, OECD Test Guideline 408

**Aspiration toxicity**

No data available

**SECTION 12: Ecological information****12.1 Toxicity****Product**

Toxicity to bacteria : EC50: 1.950 mg/l, OECD 209

**12.2 Persistence and degradability****Product**

Biodegradability : Readily biodegradable. OECD 301D / EEC 84/449 C6

Chemical Oxygen Demand (COD) : 7.350 mg/l, 1% solution

**Components:****Propan-1-ol:**

Biodegradability : Readily biodegradable.

**Propan-2-ol:**

Biodegradability : Readily biodegradable.

**Biphenyl-2-ol:**

Biodegradability : &gt; 75 o/o, 28 d, OECD 301B/ ISO 9439/ EEC 84/449 C5

**|| Alkylamidopropylbetain, C8-18 (even numbered):**

|| Biodegradability : Readily biodegradable.

**12.3 Bioaccumulative potential****Product**

Partition coefficient: n-octanol/water : Not applicable

**Components:****Propan-1-ol:**

Bioaccumulation : Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 0,43

**Propan-2-ol:**

Bioaccumulation : No bioaccumulation is to be expected (log Pow &lt;= 4).

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

**Biphenyl-2-ol:**

Bioaccumulation : Bioconcentration factor (BCF): 21,07, Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 3,18

**|| Alkylamidopropylbetain, C8-18 (even numbered):**

|| Bioaccumulation : No data available

**12.4 Mobility in soil****Components:****Propan-1-ol:**

Mobility : Mobile in soils

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**Propan-2-ol:**

Mobility : Mobile in soils

**Biphenyl-2-ol:**

Mobility : No data available

**Alkylamidopropylbetain, C8-18 (even numbered):**

Mobility : No data available

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

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 1987

IMDG : UN 1987

IATA : UN 1987

**14.2 UN proper shipping name**ADR : ALCOHOLS, N.O.S.  
(Propan-2-ol, Propan-1-ol)IMDG : ALCOHOLS, N.O.S.  
(Propan-2-ol, Propan-1-ol)IATA : Alcohols, n.o.s.  
(Propan-2-ol, Propan-1-ol)**14.3 Transport hazard class(es)**

ADR : 3

IMDG : 3

IATA : 3

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**14.4 Packing group****ADR**

Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
Tunnel restriction code : D/E

**IMDG**

Packing group : III  
Labels : 3  
EmS Code : F-E, S-D

**IATA**

Packing instruction (cargo aircraft) : 310  
Packing group : III  
Labels : 3

**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 : The product belongs to at least one of the categories 1 through 11 mentioned in Annex 1 of the Directive 1996/82/EC concerning the control of major accident hazards.

Volatile organic compounds : 18 %, Directive 1999/13/EC on the limitation of emissions of volatile organic compounds

**15.2 Chemical Safety Assessment**

Exempt

**SECTION 16: Other information****Full text of R-Phrases**

R11 : Highly flammable.  
R36 : Irritating to eyes.  
R36/37/38 : Irritating to eyes, respiratory system and skin.  
R41 : Risk of serious damage to eyes.

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R50 : Very toxic to aquatic organisms.  
R67 : Vapours may cause drowsiness and dizziness.

### Full text of H-Statements

H225 : Highly flammable liquid and vapour.  
H315 : Causes skin irritation.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H335 : May cause respiratory irritation.  
H336 : May cause drowsiness or dizziness.  
H400 : Very toxic to aquatic life.  
H412 : Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure

### 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.