

mikrozyd® wipes

Version 02.03

Revision Date 14.11.2013

Print Date 28.05.2014

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

Trade name : mikrozyd® wipes

1.2 Relevant identified uses of the substance or mixture and uses advised againstUse of the Sub-
stance/Mixture : Disinfectants and general biocidal products**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 (Schülke UK +44 114 254 3500)
pab@schuelke.com**1.4 Emergency telephone number**Emergency telephone number : UK Poisons Emergency number: 0870 600 6266
Emergency telephone number : +49 (0)40 / 52 100 -0**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (67/548/EEC, 1999/45/EC)**Irritant R10: Flammable.
R36: Irritating to eyes.**2.2 Label elements****Labelling according to EC Directives (1999/45/EC):**

Hazard symbols :



Irritant

R-phrase(s) : R10 Flammable.
R36 Irritating to eyes.

S-phrase(s) : S 2 Keep out of the reach of children.

mikrozid® wipes

Version 02.03

Revision Date 14.11.2013

Print Date 28.05.2014

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

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 nor toxic (PBT). Has a degreasing effect on the skin.

SECTION 3: Composition/information on ingredients of the active solution**3.2 Mixtures**

Chemical nature : Aqueous, alcohol containing solution on non-woven

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	35 %
Ethanol	603-002-00-5 64-17-5 200-578-6 01- 2119457610- 43-XXXX	F; R11	Flam. Liq. 2; H225 Eye Irrit. 2; H319	25 %

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.

SECTION 4: First aid measures**4.1 Description of first aid measures**

If inhaled : If symptoms persist, call a physician.

In case of skin contact : Wash with water and soap as a precaution.
If skin irritation persists, call a physician.

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

4.2 Most important symptoms and effects, both acute and delayed

mikrozid® wipes

Version 02.03

Revision Date 14.11.2013

Print Date 28.05.2014

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, Alcohol-resistant foam, Carbon dioxide (CO₂), Water spray jet

Unsuitable extinguishing media : Foam, High volume water jet, 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.

Specific risk from the substance or the product itself, its combustion products or evolved gases : No special risks known.

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**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Remove all sources of ignition. Avoid contact with eyes.

6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.

6.4 Reference to other sections

See chapter 8 + 13

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

Advice on safe handling : Wear personal protective equipment.

mikroqid® wipes

Version 02.03

Revision Date 14.11.2013

Print Date 28.05.2014

Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking.

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 container tightly closed.
Keep away from direct sunlight.
Recommended storage temperature: 15 - 25°C

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**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Ethanol	64-17-5	WEL	1.000 ppm 1.920 mg/m ³	HSE
Propan-1-ol	71-23-8	WEL	200 ppm 500 mg/m ³	HSE
Propan-1-ol	71-23-8	WEL	250 ppm 625 mg/m ³	HSE

Derived No Effect Level (DNEL)

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

Predicted No Effect Concentration (PNEC)

Propan-1-ol : Fresh water, Value: 10 mg/l

mikrozid® wipes

Version 02.03

Revision Date 14.11.2013

Print Date 28.05.2014

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

8.2 Exposure controls**Personal protective equipment**

Hand protection : Prolonged contact: Nitrile rubber gloves e.g. Camatril (>120 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.

Environmental exposure controls

General advice : No special environmental precautions required.

SECTION 9: Physical and chemical properties of the active solution**9.1 Information on basic physical and chemical properties**

Appearance : liquid

Colour : colourless

Odour : alcohol-like

Flash point : 27 °C, DIN 51755 Part 1

Ignition temperature : Propan-1-ol: 412 °C
Ethanol: > 360 °C

Auto-ignition temperature : not applicable

Lower explosion limit : Propan-1-ol: 2,1 %(V)
Ethanol: 3,1 %(V)

Upper explosion limit : Propan-1-ol: 17,5 %(V)
Ethanol: 15 %(V)

Flammability : Sustains combustion

Explosive properties : Not explosive

Oxidizing properties : not applicable

pH : ca. 6, 20 °C, (undiluted)

Melting point/freezing point : < -5 °C

Decomposition temperature : no data available

Boiling point/boiling range : ca. 80 °C

Vapour pressure : ca. 50 hPa, 20 °C

Relative vapour density : no data available

Density : ca. 0,89 g/cm³, 20 °C

Water solubility : in all proportions, 20 °C

Partition coefficient: n- : not applicable

mikrozyd® wipes

Version 02.03

Revision Date 14.11.2013

Print Date 28.05.2014

octanol/water	
Viscosity, dynamic	: not determined
Flow time	: < 15 s at 20 °C, DIN 53211
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 of the active solution**11.1 Information on toxicological effects****Acute toxicity****Components:****Propan-1-ol:**

Acute oral toxicity	: LD50: > 2000 mg/kg, rat
Acute inhalation toxicity	: LC50: 33,8 mg/l, rat
Acute dermal toxicity	: LD50: > 4000 mg/kg, rabbit

Ethanol:

Acute oral toxicity	: LD50: 8300 mg/kg, mouse
Acute inhalation toxicity	: LC50: 39 mg/l, 4 h, mouse
Acute dermal toxicity	: LD50: 20000 mg/kg, rabbit

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

No skin irritation

Ethanol:

No skin irritation, rabbit

Serious eye damage/eye irritation

mikrozyd® wipes

Version 02.03

Revision Date 14.11.2013

Print Date 28.05.2014

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

Risk of serious damage to eyes.

Ethanol:

Mild eye irritation, rabbit

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

Does not cause skin sensitisation. guinea pig Maximisation Test

Ethanol:

Did not cause sensitisation on laboratory animals. Maximisation Test guinea pig

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

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

Ethanol:

Genotoxicity in vitro : Not mutagenic in Ames Test. OECD Test Guideline 471

Genotoxicity in vivo : not mutagenic

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

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

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

Ethanol:

Carcinogenicity - Assessment : Did not show carcinogenic effects in animal experiments.

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

rat, Inhalation, NOAEL: 8,6 mg/l

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

Ethanol:

Reproductive toxicity - Assessment : In animal testing, risk of impaired fertility was shown only after administration of very high doses of this substance.

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

rat, Inhalation, NOAEL: 8,6 mg/l

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

Ethanol:

rat, Oral, NOAEL: 2.000 mg/kg

Teratogenicity - Assessment : Animal experiments showed mutagenic and teratogenic effects.

STOT - single exposure

mikrozyd® wipes

Version 02.03

Revision Date 14.11.2013

Print Date 28.05.2014

no data available

STOT - repeated exposure

no data available

Repeated dose toxicity**Components:****Ethanol:**

rat: NOAEL: 2.400 mg/kg , Oral

Aspiration toxicity

no data available

Further information**Product**

The product has not been tested.

SECTION 12: Ecological information of the active solution**12.1 Toxicity****Components:****Propan-1-ol :**

Toxicity to fish : LC50 (Fish): 3.200 mg/l, 96 h
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3.642 mg/l, 48 h
Toxicity to algae : NOEC (Chlorella pyrenoidosa): 1.150 mg/l, 48 h
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): > 100 mg/l, 21 d, OECD Test Guideline 211

Ethanol :

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 8.140 mg/l, 48 h
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 5.000 mg/l, 48 h
Toxicity to algae : IC50 (Scenedesmus quadricauda (Green algae)): > 100 mg/l, 72 h

12.2 Persistence and degradability**Product**

Biodegradability : Readily biodegradable., OECD 301D / EEC 84/449 C6
Chemical Oxygen Demand (COD) : 13.000 mg/l , 1% solution

12.3 Bioaccumulative potential**Product**

Partition coefficient: n-octanol/water : not applicable

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

Mobility : Mobile in soils

mikroqid® wipes

Version 02.03

Revision Date 14.11.2013

Print Date 28.05.2014

Ethanol :

Mobility : no data available

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

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

12.6 Other adverse effects**Product**

Additional ecological information : none

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product : Can be incinerated or landfilled together with household waste in compliance with the regulations, and after consultation with the waste disposal services.

Contaminated packaging : Take empty packaging to the recycling plant.

SECTION 14: Transport information**14.1 UN number**ADR : 3175
IMDG : 3175
IATA : 3175**14.2 Proper shipping name**ADR : SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.
(Propan-1-ol, Ethanol)

IMDG : SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.

IATA : SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.
Not permitted for transport**14.3 Transport hazard class**ADR : 4.1
IMDG : 4.1
IATA : 4.1**14.4 Packing group**ADR
Packaging group : II
Classification Code : F1
Hazard Identification Number : 40
Labels : 4.1
Tunnel restriction code : E
IMDG
Packaging group : II
Labels : 4.1
EmS Number : F-A, S-I

IATA

mikrozyd® wipes

Version 02.03

Revision Date 14.11.2013

Print Date 28.05.2014

(Cargo) : Not permitted for transport
Packaging group : II
Labels : 4.1

14.5 Environmental hazards**ADR**

Environmentally hazardous : no

IMDG

Marine pollutant : no

IATA

Environmentally hazardous : 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

Exempt

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 : 60 %, of the active solution, 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.
R41 Risk of serious damage to eyes.
R67 Vapours may cause drowsiness and dizziness.

Full text of H-Statements

H225 Highly flammable liquid and vapour.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Full text of other abbreviations

Eye Dam. Serious eye damage
Eye Irrit. Eye irritation
Flam. Liq. Flammable liquids

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke -†

mikrozid® wipes

Version 02.03

Revision Date 14.11.2013

Print Date 28.05.2014

STOT SE Specific target organ toxicity - single exposure

|| 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.