according to Regulation (EC) No. 1907/2006



# mikrozid® universal wipes

**Revision Date:** 

02.06.2017

Date of last issue: 24.02.2016 Date of first issue: 19.10.2015

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

1.1 Product identifier

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Trade name : mikrozid® universal wipes

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

Use of the Sub-

: Disinfectants and general biocidal products

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stance/Mixture

Recommended restrictions

on use

: Reserved for industrial and professional use.

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 +49 (0)40/ 521 00 8800 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)

Flammable liquids, Category 3 H226: Flammable liquid and vapour. Eye irritation, Category 2 H319: Causes serious eye irritation.

# 2.2 Label elements

# Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms





Signal word : Warning

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Hazard statements : H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

Precautionary statements : P102 Keep out of reach of children.

P337+P313

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. If eye irritation persists: Get medical advice/

attention.

P501 Dispose of contents/ container to an ap-

proved waste disposal plant.

Special labelling of certain

mixtures

: Labelling according to Regulation (EC) No. 648/2004: (< 5 %

anionic surfactants)

Further information : Use biocides safely. Always read the label and product infor-

mation before use.

#### 2.3 Other hazards

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

# 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	Concentration (% w/w)
Propan-2-ol	603-117-00-0 67-63-0 200-661-7 01-2119457558-25- XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	17.4

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Ethanol 603-002-00-5 Flam. Liq. 2; H225 12.6 64-17-5 Eye Irrit. 2; H319 200-578-6 01-2119457610-43-XXXX

For explanation of abbreviations see section 16.

#### **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

If inhaled : Move the victim to fresh air and keep him calm. If symptoms

persist, call a physician.

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

persists, call a physician.

In case of eye contact : In case of eye contact, remove contact lens and rinse imme-

> diately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

: If accidentally swallowed obtain immediate medical attention. If swallowed

#### 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, Alcohol-resistant foam, Carbon dioxide (CO2),

Water spray jet

Unsuitable extinguishing

media

: Foam, 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

for firefighters

Special protective equipment : 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.

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6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.

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. Ensure adequate venti-

lation.

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 stor-

age conditions

: Keep container tightly closed. Keep away from direct sunlight.

Recommended storage temperature: 15 - 25°C: Do not store together with oxidising agents.

Advice on common storage

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
Ethanol	64-17-5	WEL	1,000 ppm 1,920 mg/m3	HSE
Propan-2-ol	67-63-0	WEL	400 ppm 999 mg/m3	HSE
		WEL	500 ppm 1,250 mg/m3	HSE

# Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

	` '	•	` '	
Substance name	End Use	Exposure routes	Potential health effects	Value
Propan-2-ol	Workers	Skin contact	Long-term exposure, Systemic effects	888 mg/kg
	Workers	Inhalation	Long-term exposure, Systemic effects	500 mg/m3

according to Regulation (EC) No. 1907/2006



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Ethanol	Workers	Inhalation	Acute effects, Local effects	1900 mg/m3
	Workers	Skin contact	Chronic effects	343 mg/kg
	Workers	Inhalation	Chronic effects	950 mg/m3

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

Substance name	Environmental Compartment Value	
Propan-2-ol	Fresh water	140.9 mg/l
	Marine water	140.9 mg/l
	Fresh water sediment	552 mg/kg
	Marine sediment	552 mg/kg
	Soil	28 mg/kg
	Intermittent use/release	140.9 mg/l
	Effects on waste water treatment plants	2251 mg/l
	Oral	160 mg/kg food
Ethanol	Fresh water	0.96 mg/l
	Marine water	0.79 mg/l
	Fresh water sediment	3.6 mg/kg
	Soil	0.63 mg/kg

# 8.2 Exposure controls

## Personal protective equipment

Eye protection : If splashes are likely to occur, wear:

Goggles

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 protec-

tion.

Protective measures : Avoid contact with skin and eyes.

# **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
Odour Threshold : not determined

pH : 3 - 3.6 Melting point/freezing point : < -5 °C

Decomposition temperature : No data available

Boiling point/boiling range : ca. 80 °C

Flash point : 26 °C, DIN 51755 Part 1

according to Regulation (EC) No. 1907/2006



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Evaporation rate : No data available
Flammability (solid, gas) : Not applicable
Upper explosion limit : Propan-2-ol: 12 %(V)
Lower explosion limit : Propan-2-ol: 2 %(V)
Vapour pressure : ca. 40 hPa, 20 °C
Relative vapour density : No data available

Density : ca. 0.95 g/cm3

Solubility(ies)

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Water solubility : in all proportions , 20 °C

Partition coefficient: n- : Not applicable

octanol/water

Auto-ignition temperature : Propan-2-ol: 425 °C

Viscosity

Viscosity, dynamic : not determined Explosive properties : No data available 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

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**

### **Product:**

Acute oral toxicity : Acute toxicity estimate: > 15,000 mg/kg
Acute inhalation toxicity : Acute toxicity estimate: > 50 mg/l
Acute dermal toxicity : Acute toxicity estimate: > 10,000 mg/kg

#### Skin corrosion/irritation

### **Product:**

Calculation method, No skin irritation

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### Serious eye damage/eye irritation

### **Product:**

Causes serious eye irritation., Calculation method

### Respiratory or skin sensitisation

# **Components:**

### Propan-2-ol:

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

#### **Ethanol:**

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

# Germ cell mutagenicity

## **Components:**

Propan-2-ol:

Genotoxicity in vitro : Ames test, Mutagenicity (Escherichia coli - reverse mutation

assay), not mutagenic

Genotoxicity in vivo : Mouse, Mutagenicity (micronucleus test), not mutagenic

Germ cell mutagenicity- As-

: Not mutagenic in Ames Test

sessment **Ethanol:** 

: OECD Test Guideline 471, Not mutagenic in Ames Test

Genotoxicity in vivo not mutagenic

Germ cell mutagenicity- As-

sessment

Tests on bacterial or mammalian cell cultures did not show

mutagenic effects.

# Carcinogenicity

Genotoxicity in vitro

### Components:

Propan-2-ol:

Carcinogenicity - Assess-: Based on available data, the classification criteria are not met.

ment **Ethanol:** 

Carcinogenicity - Assess-

ment

: Did not show carcinogenic effects in animal experiments.

# Reproductive toxicity

# **Components:**

Propan-2-ol:

Reproductive toxicity - Assessment

: Based on available data, the classification criteria are not met.

Ethanol:

Effects on foetal develop-

: Rat, Oral, NOAEL: 2,000 mg/kg

ment

Reproductive toxicity - As-

: In animal testing, risk of impaired fertility was shown only after

sessment

administration of very high doses of this substance.

# STOT - single exposure

# **Components:**

### Propan-2-ol:

May cause drowsiness or dizziness.

**Ethanol:** 

No data available

according to Regulation (EC) No. 1907/2006



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### STOT - repeated exposure

# **Components:**

### Propan-2-ol:

Based on available data, the classification criteria are not met.

#### Repeated dose toxicity

# Components:

**Ethanol:** 

Rat, NOAEL: 1,730 mg/kg, LOAEL: 3,160 mg/kg, Oral90 d

# **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-2-ol:

Toxicity to fish : LC50 (Leuciscus idus): > 100 mg/l, 48 h, static test, Raw ma-

terial, literature value

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna): > 100 mg/l, 48 h, static test, Raw

material, literature value

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l,

72 h, static test, Raw material, literature value

**Ethanol:** 

Toxicity to fish Toxicity to daphnia and other

aquatic invertebrates

: LC50 (Leuciscus idus (Golden orfe)): 8,140 mg/l, 48 h : 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

### **Components:**

Propan-2-ol:

Biodegradability : Readily biodegradable.

Ethanol:

Biodegradability : Readily biodegradable.

# 12.3 Bioaccumulative potential

#### Components:

Propan-2-ol:

Bioaccumulation : No bioaccumulation is to be expected (log Pow <= 4). Partition coefficient: n-: log Pow: 0.05 (20 °C), OECD Test Guideline 107

octanol/water

Ethanol:

Bioaccumulation : Bioaccumulation is unlikely. Partition coefficient: n-: log Pow: -0.14, calculated

according to Regulation (EC) No. 1907/2006



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octanol/water

### 12.4 Mobility in soil

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# Components:

Propan-2-ol:

Mobility : Mobile in soils

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**Ethanol:** 

Mobility : No data available

#### 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:** 

Additional ecological infor-

mation

: 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 : UN 3175 IMDG : UN 3175 IATA : UN 3175

# 14.2 UN proper shipping name

ADR : SOLIDS OR MIXTURES OF SOLIDS CONTAINING

FLAMMABLE LIQUID, N.O.S.

(Propan-2-ol, Ethanol)

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

(Propan-2-ol, Ethanol)

**IATA** : Solids containing flammable liquid, n.o.s.

(Propan-2-ol, Ethanol)

# 14.3 Transport hazard class(es)

 ADR
 : 4.1

 IMDG
 : 4.1

 IATA
 : 4.1

according to Regulation (EC) No. 1907/2006



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### 14.4 Packing group

**ADR** 

Packing group : II
Classification Code : F1
Hazard Identification Number : 40
Labels : 4.1
Tunnel restriction code : E

**IMDG** 

Packing group : II
Labels : 4.1
EmS Code : F-A, S-I

**IATA** 

Packing instruction (cargo : 448

aircraft)

Packing group : II

Labels : Flammable Solid

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

REACH - Candidate List of Substances of Very High : Not applicable

Concern for Authorisation (Article 59).

Regulation (EC) No 850/2004 on persistent organic pol: Not applicable

lutants

Seveso III: Directive : Quantity 1 Quantity 2

2012/18/EU of the European Parliament and of the Council on the control of majoraccident hazards involving dangerous substances.

P5c FLAMMABLE LIQUIDS 5,000 t 50,000 t

Volatile organic compounds : Volatile organic compounds (VOC) content: 30 %, of the ac-

tive solution, Directive 2010/75/EC on the limitation of emis-

sions of volatile organic compounds

Other regulations : The surfactant(s) contained in this mixture complies(comply)

according to Regulation (EC) No. 1907/2006



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with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. 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 a first list of indicative occupational exposure limit values. Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products

### 15.2 Chemical safety assessment

Exempt

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

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

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

#### Full text of other abbreviations

Eye Irrit. : Eye irritation Flam. Liq. : Flammable liquids

STOT SE : Specific target organ toxicity - single exposure

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: AICS - Australian Inventory of Chemical Substances: 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

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Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### **Further information**

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008

Flam. Liq. 3, H226 : On basis of test data. Eye Irrit. 2, H319 : Calculation method

Changes compared with the previous edition!!!

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