according to Regulation (EC) No. 1907/2006



mikrozid® PAA wipes No Change Service!

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

1.1 Product identifier

Trade name : mikrozid® PAA wipes

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

Use of the Sub-

: Disinfectants and general biocidal products

stance/Mixture

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 irritation, Category 2 H315: Causes skin irritation.

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

Hazard statements : H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements : P280 Wear protective gloves (e.g. Nitrile rubber)

/eye protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and

water.

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.

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

mation before use.

P337+P313

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 of the active solution

3.2 Mixtures

Chemical nature : Solution of the following substances with harmless additives.

Hazardous components

Chemical name	Index-Number CAS-No.	Classification	Concentration (% w/w)
	EC-No.		
	Registration number		
Hydrogen peroxide	008-003-00-9	Ox. Liq. 1; H271	5 - 10
	7722-84-1	Acute Tox. 4; H302	
	231-765-0	Acute Tox. 4; H332	
	01-2119485845-22-	Skin Corr. 1A; H314	
	XXXX	Aquatic Chronic 3;	
		H412	
Acetic acid	607-002-00-6	Flam. Liq. 3; H226	1 - 5
	64-19-7	Skin Corr. 1A; H314	
	200-580-7		
	01-2119475328-30-		
	XXXX		

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Peracetic acid	607-094-00-8 79-21-0 201-186-8 01-2119531330-56- 0006	Flam. Liq. 3; H226 Org. Perox. D; H242 Acute Tox. 3; H301 Acute Tox. 4; H312 Acute Tox. 4; H332 Skin Corr. 1A; H314 STOT SE 3; H335 Aquatic Acute 1; H400	0,06
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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.

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

sist, call a physician.

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

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

If swallowed : Clean mouth with water and drink afterwards plenty of water.

If symptoms persist, call a physician.

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

: The product itself does not burn, but it is oxidising.

Specific risk from the substance or the product itself, its combustion products or

evolved gases

: Fire may cause evolution of:, Oxygen

5.3 Advice for firefighters

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

for firefighters

according to Regulation (EC) No. 1907/2006



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Handle in accordance with good industrial hygiene and safety

practice. Avoid contact with skin and eyes.

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.

Flush with water.

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

Advice on protection against

fire and explosion Hygiene measures

: Normal measures for preventive fire protection.

: When using do not eat or drink.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

Further information on stor-

age conditions

: Store at room temperature in the original container.

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

: Provide sufficient air exchange and/or exhaust in work rooms.

Recommended storage temperature: 5 - 30°C

: No materials to be especially mentioned. Advice on common storage

7.3 Specific end use(s)

Specific use(s) : The product falls under the regulation on biocide products

(EU) 528/2012. Product type: 2 Product type: 4

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Hydrogen peroxide	7722-84-1	WEL	1 ppm 1,4 mg/m3	HSE
		WEL	2 ppm 2,8 mg/m3	HSE
Acetic acid	64-19-7	Permissible exposure limit	10 ppm 25 mg/m3	EC/2000/39
		Permissible exposure limit	10 ppm 25 mg/m3	OSHA

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

according to Regulation (EC) No. 1907/2006



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Substance name	End Use	Exposure routes	Potential health effects	Value
Hydrogen peroxide	Workers	Inhalation	Local effects, Short- term exposure	3 mg/m3
	Workers	Inhalation	Local effects, Long- term exposure	1,4 mg/m3
	Consumers	Inhalation	Local effects, Short- term exposure	1,93 mg/m3
	Consumers	Inhalation	Local effects, Long- term exposure	0,21 mg/m3
Acetic acid	Workers	Inhalation	Local effects, Acute effects, Short-term exposure	25 mg/m3
	Workers	Inhalation	Local effects, Chronic effects, Long-term exposure	25 mg/m3
	Consumers	Inhalation	Local effects, Acute effects, Short-term exposure	25 mg/m3
	Consumers	Inhalation	Local effects, Chronic effects, Long-term exposure	25 mg/m3

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

Substance name		Environmental Compartment	Value	
Hydrogen peroxide		Fresh water	0,0126 mg/l	
		Marine water	0,0126 mg/l	
		Water	0,0138 mg/l	
		Effects on waste water treatment plants	4,66 mg/l	
Acetic acid		Fresh water	3,058 mg/l	
		Marine water	0,3058 mg/l	
		Fresh water sediment	11,36 mg/kg	
		Marine sediment	1,136 mg/kg	
		Water	30,58 mg/l	
Remarks:	Intermitter	ent use/release		
		Soil	0,478 mg/kg	
		Effects on waste water treatment plants	85 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

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Hand 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 protec-

tion.

Respiratory protection : If the occupational exposure limits cannot be met, in excep-

tional cases suitable respiratory equipment should be worn

only for a short period of time. Recommended Filter type:

A2B2E2K2 Hg NO P3 P D/ CO 20 P3 R D

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 : pungent
Odour Threshold : not determined

pH : ca. 2,2, 20 °C, concentrate

Melting point/freezing point : not determined
Decomposition temperature : No data available
Boiling point/boiling range : ca. 100 °C

Flash point : Not applicable

Other information: The product is not flammable.

Evaporation rate : No data available
Flammability (solid, gas) : Not applicable
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : 20 hPa, ca. 20 °C
vapour density : No data available
Density : ca. 1,02 g/cm3, 20 °C

Solubility(ies)

Water solubility : completely soluble Partition coefficient: n- : Not applicable

octanol/water

Explosive properties : Not explosive Oxidizing properties : No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

The product is chemically stable.

according to Regulation (EC) No. 1907/2006



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10.3 Possibility of hazardous reactions

None reasonably foreseeable.

10.4 Conditions to avoid

Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Strong acids and strong bases,

10.6 Hazardous decomposition products

Oxygen

SECTION 11: Toxicological information of the active solution

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 10000 mg/kg
Acute inhalation toxicity : Acute toxicity estimate: 24,3 mg/l
Acute dermal toxicity : Acute toxicity estimate: > 15000 mg/kg

Skin corrosion/irritation

Product:

EPISKIN Human Skin Model Test, Causes skin irritation.

Serious eye damage/eye irritation

Product:

Causes serious eye irritation., Calculation method

Respiratory or skin sensitisation

Components:

Hydrogen peroxide:

Did not cause sensitisation on laboratory animals. Guinea pig

Acetic acid:

No data available

Peracetic acid:

Did not cause sensitisation on laboratory animals. Guinea pig

Germ cell mutagenicity

Components:

Hydrogen peroxide:

Genotoxicity in vitro : Ames test, negative

Genotoxicity in vivo : in vivo assay, not mutagenic Germ cell mutagenicity- As- : Not mutagenic in Ames Test

sessment Acetic acid:

Genotoxicity in vitro : Ames test, negative

Germ cell mutagenicity- As- : Not mutagenic in Ames Test

sessment

Peracetic acid:

Genotoxicity in vitro : Ames test, negative

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Germ cell mutagenicity- As-

sessment

: Animal testing did not show any mutagenic effects.

Carcinogenicity

Components:

Hydrogen peroxide:

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

ment

Acetic acid:

Carcinogenicity - Assess-

ment

: Animal testing did not show any carcinogenic effects.

Peracetic acid:

Carcinogenicity - Assess-

ment

: Animal testing did not show any carcinogenic effects.

Reproductive toxicity

Components:

Hydrogen peroxide:

Reproductive toxicity - As-

лгу

: Animal testing did not show any effects on fertility.

sessment Acetic acid:

Reproductive toxicity - As-

sessment

: Animal testing did not show any effects on fertility.

Peracetic acid:

Effects on fertility : Rat, Oral, NOAEL: 200 mg/l, F1: 200 mg/l

Reproductive toxicity - As-

sessment

: Animal testing did not show any effects on fertility.

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity

Components:

Hydrogen peroxide:

Rat, NOAEL: 26 mg/kg, Oral, 3 months, No adverse effect has been observed in chronic toxicity

tests.

Rat, NOAEL: 0,0029 mg/l, inhalation (vapour), OECD Test Guideline 407

Acetic acid:

Rat, NOAEL: 1.800 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

according to Regulation (EC) No. 1907/2006



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12.1 Toxicity

Components:

Hydrogen peroxide:

Toxicity to fish : LC50 (Fish): 16,4 - 37,4 mg/l, 96 h Toxicity to daphnia and other : EC50 (Daphnia magna): 2,4 mg/l, 48 h

aquatic invertebrates

Toxicity to algae : ErC50 (Skeletonema costatum (marine diatom)): 1,38 mg/l, 72

NOEC (Skeletonema costatum (marine diatom)): 0,63 mg/l, 72

h

Acetic acid:

Toxicity to fish : LC50 (Gambusia affinis (Mosquito fish)): 251 mg/l, 96 h, static

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna): 95 mg/l, 24 h

Toxicity to algae

: EC100 (Euglena gracilis): 720 mg/l, 0,25 h

Peracetic acid:

Toxicity to fish : LC50 : 13 mg/l, 96 h, semi-static test, OECD Test Guideline

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna): 3,3 mg/l, 48 h, OECD Test Guideline

202

Toxicity to algae : No data available

12.2 Persistence and degradability

Components:

Hydrogen peroxide:

Biodegradability : Totally biodegradable, OECD Test Guideline 301

Acetic acid:

Biodegradability : Totally biodegradable, OECD 301D / EEC 84/449 C6

Peracetic acid:

Biodegradability : Totally biodegradable, OECD Test Guideline 301

12.3 Bioaccumulative potential

Product:

Bioaccumulation : This mixture contains no substance considered to be persis-

tent, bioaccumulating and toxic (PBT).

Components:

Hydrogen peroxide:

Bioaccumulation : Does not bioaccumulate.

Acetic acid:

Bioaccumulation : Bioaccumulation is unlikely.

Peracetic acid:

Bioaccumulation : Does not bioaccumulate.

12.4 Mobility in soil

Components:

Hydrogen peroxide:

Mobility : Water Hydrolyses readily.

Acetic acid:

No data available Mobility

Peracetic acid:

Water Hydrolyses readily. Mobility

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12.5 Results of PBT and vPvB assessment

Product:

Assessment : This mixture contains no substance considered to be persis-

tent, bioaccumulating and toxic (PBT).

12.6 Other adverse effects

Product:

Additional ecological infor-

mation

: This product has no known ecotoxicological effects.

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

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

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 substanc-

: Directive 96/82/EC does not apply

: Take note of Directive 98/24/EC on the protection of the Other regulations

> 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 val-

ues.Regulation (EU) No 528/2012 of the European Parliament

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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

SECTION 16: Other information

Full text of H-Statements

H226 : Flammable liquid and vapour. H242 : Heating may cause a fire.

H271 : May cause fire or explosion; strong oxidizer.

H301 : Toxic if swallowed.
H302 : Harmful if swallowed.
H312 : Harmful in contact with skin.

H314 : Causes severe skin burns and eye damage.

H332 : Harmful if inhaled.

H335 : May cause respiratory irritation.

H400 : Very toxic to aquatic life.

H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Acute aquatic toxicity
Aquatic Chronic : Chronic aquatic toxicity
Flam. Liq. : Flammable liquids
Org. Perox. : Organic peroxides
Ox. Liq. : Oxidizing liquids
Skin Corr. : Skin corrosion

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 Substanc-

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es; (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 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

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.