

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



mikrozid® PAA wipes

No Change Service!

Version
03.06

Revision Date:
11.06.2019

Date of last issue: 02.11.2018
Date of first issue: 15.02.2012

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-
stance/Mixture : Disinfectants and general biocidal products

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
+49 (0)40/ 521 00 666
AD@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.

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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.
P337 + P313 If eye irritation persists: Get medical advice/attention.

Further information :

Use biocides safely. Always read the label and product information 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.

No special risks known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature :

Aqueous containing solution on non-woven

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Hydrogen peroxide	7722-84-1 231-765-0 008-003-00-9 01-2119485845-22-XXXX	Ox. Liq. 1; H271 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1A; H314 STOT SE 3; H335 Aquatic Chronic 3; H412	< 8
Acetic acid	64-19-7 200-580-7 607-002-00-6	Flam. Liq. 3; H226 Skin Corr. 1A; H314	1 - 5

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	01-2119475328-30-XXXX		
Peracetic acid	79-21-0 201-186-8 607-094-00-8 01-2119531330-56-0006	Flam. Liq. 3; H226 Org. Perox. D; H242 Acute Tox. 3; H301 Acute Tox. 4; H312 Acute Tox. 2; H330 Skin Corr. 1A; H314 STOT SE 3; H335 Aquatic Acute 1; H400; M = 1	0.06

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 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 : 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 : Do not use a solid water stream as it may scatter and spread fire.

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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.

Hazardous combustion products : Oxygen

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

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or 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: 5 - 30°C

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

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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
Hydrogen peroxide	7722-84-1	Permissible exposure limit	1 ppm 1.4 mg/m ³	United Kingdom. Workplace Exposure Limits (EH40/2005): Table 1:
		Short term exposure limit	2 ppm 2.8 mg/m ³	United Kingdom. Workplace Exposure Limits (EH40/2005): Table 1:
		Permissible exposure limit	1.25 mg/m ³	Biocide dossier
		Short term exposure limit	1.25 mg/m ³	Biocide dossier
Acetic acid	64-19-7	Short term exposure limit	15 ppm 37 mg/m ³	United Kingdom. Workplace Exposure Limits (EH40/2005): Table 1:
		Permissible exposure limit	10 ppm 25 mg/m ³	United Kingdom. Workplace Exposure Limits (EH40/2005): Table 1:
		Permissible exposure limit	10 ppm 25 mg/m ³	EU. Council Directive 98/24/EC Annex III
		Short term exposure limit	20 ppm 50 mg/m ³	EU. Council Directive 98/24/EC Annex III
Peracetic acid	79-21-0	Permissible exposure limit	0.16 ppm 0.5 mg/m ³	Biocide dossier
		Short term exposure limit	0.16 ppm 0.5 mg/m ³	Biocide dossier

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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/m ³
	Workers	Inhalation	Local effects, Long-term exposure	1.4 mg/m ³
Acetic acid	Workers	Inhalation	Acute local effects, Short-term exposure	25 mg/m ³
	Workers	Inhalation	Chronic effects, Long-term exposure	25 mg/m ³

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
	Intermittent use/release	0.0138 mg/l
	Effects on waste water treatment plants	4.66 mg/l
	Fresh water sediment	0.047 mg/kg
Acetic acid	Marine sediment	0.047 mg/kg
	Soil	0.0023 mg/kg
	Fresh water	3.058 mg/l
	Marine water	0.306 mg/l
	Fresh water sediment	11.36 mg/kg
	Marine sediment	1.136 mg/kg
	Intermittent use/release	30.58 mg/l
	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
- 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 protection.
- Respiratory protection : If the occupational exposure limits cannot be met, in exceptional 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**9.1 Information on basic physical and chemical properties**

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Appearance	:	Aqueous containing solution on non-woven
Colour	:	colourless
Odour	:	pungent
Odour Threshold	:	not determined
pH	:	approx. 2.2 (20 °C) of the active solution
Melting point/freezing point	:	not determined
Decomposition temperature	:	No data available
Boiling point/boiling range	:	approx. 100 °C of the active solution
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	20 hPa (approx. 20 °C) of the active solution
Vapour density	:	No data available
Relative density	:	approx. 1.02 g/cm ³ (20 °C) of the active solution
Solubility(ies) Water solubility	:	completely soluble
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

9.2 Other information

No data available

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SECTION 10: Stability and reactivity**10.1 Reactivity**

Stable under recommended storage conditions.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : None reasonably foreseeable.

10.4 Conditions to avoid

Conditions to avoid : Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Materials to avoid : Strong acids and strong bases

10.6 Hazardous decomposition products

Oxygen

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Product:**Acute oral toxicity : Acute toxicity estimate: > 10,000 mg/kg
Remarks: of the active solution

Acute inhalation toxicity : Acute toxicity estimate: 24.3 mg/l

Acute dermal toxicity : Acute toxicity estimate: > 15,000 mg/kg
Remarks: of the active solution**Components:****Hydrogen peroxide:**Acute oral toxicity : LD50 (Rat): 801 - 872 mg/kg
Remarks: Harmful if swallowed.Acute inhalation toxicity : Assessment: Harmful if inhaled.
Remarks: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, Annex VI, Table 3.1

Acute dermal toxicity : LD50 (Rat): 6,500 mg/kg

Acetic acid:

Acute oral toxicity : LD50 (Rat): 3,310 mg/kg

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Acute inhalation toxicity : LC50 (Rat): > 39.8 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Peracetic acid:

Acute oral toxicity : LD50 (Rat): 85 - 153 mg/kg
Assessment: Toxic if swallowed.

Acute inhalation toxicity : 0.204 mg/l
Test atmosphere: dust/mist
Assessment: Fatal if inhaled.

Acute dermal toxicity : 1,100 mg/kg
Assessment: Harmful in contact with skin.

Skin corrosion/irritation

Product:

Method : EPISKIN Human Skin Model Test
Result : Causes skin irritation.

Components:

Hydrogen peroxide:

Species : Rabbit
Result : Corrosive

Acetic acid:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Corrosive

Peracetic acid:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Causes severe burns.

Serious eye damage/eye irritation

Product:

Assessment : Causes serious eye irritation.
Method : Calculation method

Components:

Hydrogen peroxide:

Species : Rabbit
Result : Risk of serious damage to eyes.

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Species : Rabbit
Method : OECD Test Guideline 405
Result : Risk of serious damage to eyes.

Peracetic acid:

Species : Rabbit
Result : Corrosive

Respiratory or skin sensitisation**Components:****Hydrogen peroxide:**

Species : Guinea pig
Result : Did not cause sensitisation on laboratory animals.

Acetic acid:

Result : No data available

Peracetic acid:

Species : Mouse
Result : Did not cause sensitisation on laboratory animals.
Remarks : Substance is not considered to be potential skin sensitiser.

Germ cell mutagenicity**Components:****Hydrogen peroxide:**

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Genotoxicity in vivo : Test Type: in vivo assay
Remarks: Non mutagenic

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

Acetic acid:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

Peracetic acid:

Germ cell mutagenicity- Assessment : Germ cell effects are not relevant., The substance has been

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assessment

tested for mutagenicity and other types of genotoxic effects in in vitro and in vivo experiments and is evaluated as being non-mutagenic.

Carcinogenicity**Components:****Hydrogen peroxide:**

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

Acetic acid:

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

Peracetic acid:

Carcinogenicity - Assessment : No structural alerts for carcinogenicity were found.

Reproductive toxicity**Components:****Hydrogen peroxide:**

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

Acetic acid:

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

Peracetic acid:

Effects on foetal development : Species: Rat
Application Route: Oral
General Toxicity Maternal: NOAEL: 100 mg/l
Teratogenicity: NOAEL F1: 100 mg/l

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

STOT - single exposure**Components:****Hydrogen peroxide:**

Assessment : May cause respiratory irritation.

Acetic acid:

Assessment : The substance or mixture is not classified as specific target

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organ toxicant, single exposure.

Peracetic acid:

Assessment : May cause respiratory irritation.

STOT - repeated exposure**Components:****Hydrogen peroxide:**

Assessment : No data available

Acetic acid:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Peracetic acid:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity**Components:****Hydrogen peroxide:**

Species : Rat
NOAEL : 26 mg/kg
Application Route : Oral
Exposure time : 3 months
Remarks : No adverse effect has been observed in chronic toxicity tests.

Species : Rat
Application Route : inhalation (vapour)
Method : OECD Test Guideline 407

Acetic acid:

Species : Rat
NOAEL : 1,800 mg/kg
Application Route : Oral
Exposure time : 14-days

Peracetic acid:

Species : Rat
NOAEL : 15 mg/kg
Exposure time : 90-day
Remarks : No adverse effect has been observed in sub chronic toxicity tests.

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No data available

Further information**Product:**

Remarks : The product has not been tested.

SECTION 12: Ecological information**12.1 Toxicity****Components:****Hydrogen peroxide:**Toxicity to fish : LC50 (Fish): 16.4 - 37.4 mg/l
Exposure time: 96 hToxicity to daphnia and other : EC50 (Daphnia magna): 2.4 mg/l
aquatic invertebrates Exposure time: 48 hToxicity to algae : ErC50 (Skeletonema costatum (marine diatom)): 1.38 mg/l
Exposure time: 72 hNOEC (Skeletonema costatum (marine diatom)): 0.63 mg/l
Exposure time: 72 h**Acetic acid:**Toxicity to fish : LC50 (Gambusia affinis (Mosquito fish)): 251 mg/l
Exposure time: 96 h
Test Type: static testToxicity to daphnia and other : EC50 (Daphnia magna): 95 mg/l
aquatic invertebrates Exposure time: 24 hToxicity to algae : EC100 (Euglena gracilis): 720 mg/l
Exposure time: 0.25 h**Peracetic acid:**Toxicity to fish : LC50 : 1.1 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203Toxicity to daphnia and other : EC50 (Daphnia magna): 0.73 mg/l
aquatic invertebrates Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae : Remarks: No data available

M-Factor (Acute aquatic tox- : 1
icity)

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.0121 mg/l
Exposure time: 33 d
Species: Daphnia magna (Water flea)

12.2 Persistence and degradability**Components:****Hydrogen peroxide:**

Biodegradability : Result: Totally biodegradable
Method: OECD Test Guideline 301

Acetic acid:

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

Peracetic acid:

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301

12.3 Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).

Components:**Hydrogen peroxide:**

Bioaccumulation : Remarks: Does not bioaccumulate.

Acetic acid:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Peracetic acid:

Bioaccumulation : Remarks: Does not bioaccumulate.

12.4 Mobility in soil**Components:****Hydrogen peroxide:**

Mobility : Medium: Water
Remarks: Hydrolyses readily.

Acetic acid:

Mobility : Remarks: No data available

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Peracetic acid:

Mobility : Medium: Water
Remarks: Hydrolyses readily.

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 information : No data is available on the product itself.

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

Not applicable
For personal protection see section 8.

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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 Concern for Authorisation (Article 59). : Not applicable

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable**Other regulations:**

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

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.
H330	: Fatal if inhaled.
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	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Flam. Liq.	: Flammable liquids
Org. Perox.	: Organic peroxides
Ox. Liq.	: Oxidizing liquids
Skin Corr.	: Skin corrosion

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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 Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; 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

Skin Irrit. 2, H315 : On basis of test data.
Eye Irrit. 2, H319 : Calculation method

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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