

SAFETY DATA SHEET

according to the Globally Harmonized System

schülke 

mikrozid® universal wipes

No Change Service!

Version
02.00

Revision Date:
19.04.2023

Date of last issue: -

Hazard pictograms

:



Signal word

: Warning

Hazard statements

: H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.

Precautionary statements

: **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Response:
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.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Chemical nature

: Aqueous, alcohol containing solution on non-woven

Components

Chemical name	CAS-No.	Concentration (% w/w)
propan-2-ol	67-63-0	>= 10 - < 20
ethanol	64-17-5	>= 10 - < 20

4. 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 skin irritation persists, call a physician.

In case of eye contact

: Rinse thoroughly with plenty of water, also under the eyelids.
Obtain medical attention.

If swallowed

: If accidentally swallowed obtain immediate medical attention.

SAFETY DATA SHEET

according to the Globally Harmonized System

schülke 

mikroqid® universal wipes

No Change Service!

Version
02.00

Revision Date:
19.04.2023

Date of last issue: -

Most important symptoms and effects, both acute and delayed : Treat symptomatically.

Notes to physician : For specialist advice physicians should contact the Poisons Information Service.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Dry powder
Alcohol-resistant foam
Carbon dioxide (CO₂)
Water spray jet

Unsuitable extinguishing media : Foam
Do NOT use water jet.

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

Hazardous combustion products : No hazardous combustion products are known

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Avoid contact with eyes.

Environmental precautions : No special environmental precautions required.

Methods and materials for containment and cleaning up : Use mechanical handling equipment.

7. HANDLING AND STORAGE

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

Advice on safe handling : Wear personal protective equipment.
Ensure adequate ventilation.

Conditions for safe storage : 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

Materials to avoid : Keep away from oxidizing agents.

SAFETY DATA SHEET

according to the Globally Harmonized System

schülke 

mikrozid® universal wipes *No Change Service!*

Version
02.00

Revision Date:
19.04.2023

Date of last issue: -

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m ³	IN OEL
		STEL	1,000 ppm	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work-week	40 mg/l	ACGIH BEI

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

No personal respiratory protective equipment normally required.

Hand protection

Remarks : 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.

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

Protective measures : Avoid contact with skin and eyes.

Hygiene measures : Keep away from food and drink.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Aqueous, alcohol containing solution on non-woven

Colour : colourless

Odour : alcohol-like

SAFETY DATA SHEET

according to the Globally Harmonized System

schülke 

mikrozid® universal wipes

No Change Service!

Version
02.00

Revision Date:
19.04.2023

Date of last issue: -

Odour Threshold	:	not determined
pH	:	ca. 3.5 Concentration: 100 % of the active solution
Melting point/freezing point	:	< -5 °C of the active solution
Decomposition temperature	:	No data available
Boiling point/boiling range	:	ca. 80 °C of the active solution
Flash point	:	26 °C Method: DIN 51755 Part 1 of the active solution
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Sustains combustion
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapour pressure	:	ca. 40 hPa (20 °C) of the active solution
Relative vapour density	:	No data available
Density	:	ca. 0.95 g/cm ³ of the active solution
Solubility(ies) Water solubility	:	in all proportions (20 °C)
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	425 °C Raw material
Viscosity Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Metal corrosion rate	:	None reasonably foreseeable.

SAFETY DATA SHEET

according to the Globally Harmonized System

schülke 

mikrozid® universal wipes

No Change Service!

Version
02.00

Revision Date:
19.04.2023

Date of last issue: -

10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	The product is chemically stable.
Possibility of hazardous reactions	:	None reasonably foreseeable.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Strong acids and oxidizing agents
Hazardous decomposition products	:	None reasonably foreseeable.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components:

propan-2-ol:

Acute oral toxicity	:	LD50 (Rat): 5,840 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 39 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	:	LD50 (Rabbit): 13,900 mg/kg Method: OECD Test Guideline 402

ethanol:

Acute oral toxicity	:	LD50 (Mouse): 8,300 mg/kg
Acute inhalation toxicity	:	LC50 (Mouse): 39 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	:	LD50 (Rabbit): 20,000 mg/kg

Skin corrosion/irritation

Product:

Method	:	Patch Test
Result	:	No skin irritation
Remarks	:	largely based on human evidence

Components:

propan-2-ol:

Result	:	No skin irritation
--------	---	--------------------

SAFETY DATA SHEET

according to the Globally Harmonized System

schülke 

mikrozid® universal wipes

No Change Service!

Version
02.00

Revision Date:
19.04.2023

Date of last issue: -

ethanol:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation

Product:

Assessment : Causes serious eye irritation.
Method : Calculation method

Components:

propan-2-ol:

Result : Eye irritation

ethanol:

Method : OECD Test Guideline 405
Result : Eye irritation

Respiratory or skin sensitisation

Components:

propan-2-ol:

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

ethanol:

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Components:

propan-2-ol:

Genotoxicity in vitro : Test Type: Ames test
Method: Mutagenicity (Escherichia coli - reverse mutation assay)
Result: Non mutagenic

Genotoxicity in vivo : Species: Mouse
Method: Mutagenicity (micronucleus test)
Result: Non mutagenic

Germ cell mutagenicity - Assessment : Not mutagenic in Ames Test

SAFETY DATA SHEET

according to the Globally Harmonized System

schülke 

mikrozid® universal wipes

No Change Service!

Version
02.00

Revision Date:
19.04.2023

Date of last issue: -

ethanol:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: Not mutagenic in Ames Test

Genotoxicity in vivo : Result: Non mutagenic

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

Carcinogenicity

Components:

propan-2-ol:

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

ethanol:

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

Reproductive toxicity

Components:

propan-2-ol:

Effects on foetal development : Species: Rat
Application Route: Oral
General Toxicity Maternal: NOAEL: 400 mg/kg body weight

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.

ethanol:

Effects on foetal development : Species: Rat
Application Route: Oral
General Toxicity Maternal: NOAEL: 2,000 mg/kg body weight

Reproductive toxicity - Assessment : Animal experiments showed mutagenic and teratogenic effects.

STOT - single exposure

Components:

propan-2-ol:

Assessment : May cause drowsiness or dizziness.

SAFETY DATA SHEET

according to the Globally Harmonized System

schülke 

mikrozid® universal wipes

No Change Service!

Version
02.00

Revision Date:
19.04.2023

Date of last issue: -

ethanol:

Remarks : No data available

STOT - repeated exposure

Components:

propan-2-ol:

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

ethanol:

Remarks : No data available

Repeated dose toxicity

Components:

propan-2-ol:

Remarks : No data available

ethanol:

Species : Rat
NOAEL : 1,730 mg/kg
LOAEL : 3,160 mg/kg
Application Route : Oral
Exposure time : 90 d

Further information

Product:

Remarks : No human information is available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

propan-2-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 10,000 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h
Test Type: static test

EC50 (green algae): 1,800 mg/l
Exposure time: 7 d

SAFETY DATA SHEET

according to the Globally Harmonized System

schülke 

mikrozid® universal wipes

No Change Service!

Version
02.00

Revision Date:
19.04.2023

Date of last issue: -

ethanol:

- Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 8,140 mg/l
Exposure time: 48 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 5,000 mg/l
Exposure time: 48 h
- Toxicity to algae/aquatic plants : IC50 (Scenedesmus quadricauda (Green algae)): > 100 mg/l
Exposure time: 72 h

Persistence and degradability

Components:

propan-2-ol:

- Biodegradability : Result: Readily biodegradable.

ethanol:

- Biodegradability : aerobic
Result: Readily biodegradable.
Biodegradation: > 70 %
Exposure time: 5 d
Method: OECD 301D / EEC 84/449 C6

Bioaccumulative potential

Components:

propan-2-ol:

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

ethanol:

- Bioaccumulation : Remarks: Bioaccumulation is unlikely.
- Partition coefficient: n-octanol/water : log Pow: -0.14
Method: Calculated value

Mobility in soil

Components:

propan-2-ol:

- Mobility : Remarks: Mobile in soils

ethanol:

- Mobility : Remarks: No data available

SAFETY DATA SHEET

according to the Globally Harmonized System

schülke 

mikrozid® universal wipes

No Change Service!

Version
02.00

Revision Date:
19.04.2023

Date of last issue: -

Other adverse effects

Product:

Additional ecological information : No data is available on the product itself.

13. DISPOSAL CONSIDERATIONS

Disposal methods

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

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 3175
Proper shipping name : SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.
(propan-2-ol, ethanol)
Class : 4.1
Packing group : II
Labels : 4.1

IATA-DGR

UN/ID No. : UN 3175
Proper shipping name : Solids containing flammable liquid, n.o.s.
(propan-2-ol, ethanol)
Class : 4.1
Packing group : II
Labels : Flammable solid
Packing instruction (cargo aircraft) : 448
Packing instruction (passenger aircraft) : 445

IMDG-Code

UN number : UN 3175
Proper shipping name : SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.
(propan-2-ol, ethanol)
Class : 4.1
Packing group : II
Labels : 4.1
EmS Code : F-A, S-I
Marine pollutant : no

Transport in bulk according to IMO instruments

Transport in accordance to special provision 216

SAFETY DATA SHEET

according to the Globally Harmonized System

schülke 

mikrozid® universal wipes

No Change Service!

Version
02.00

Revision Date:
19.04.2023

Date of last issue: -

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

This information is not available.

The components of this product are reported in the following inventories:

TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	Product contains substance(s) not listed on TSCA inventory.
AIRC	:	Not in compliance with the inventory
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL. Sulfonic acids, C14-17-sec-alkane, sodium salts
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
TECI	:	On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

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

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
IN OEL	:	India. Permissible levels of certain chemical substances in work environment.
ACGIH / TWA	:	8-hour, time-weighted average

SAFETY DATA SHEET

according to the Globally Harmonized System

schülke -t

mikrozid® universal wipes **No Change Service!**

Version Revision Date: Date of last issue: -
02.00 19.04.2023

ACGIH / STEL : Short-term exposure limit
IN OEL / TWA : Time-Weighted Average Concentration (TWA) (8 hrs.)

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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.