

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke 

Mikrozid AF Liquid

No Change Service!

Version 02.03

Revision Date 08.01.2008

Print Date 08.01.2008

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : Mikrozyd AF Liquid
Producer/Supplier : Schülke & Mayr GmbH
Robert-Koch-Str. 2
22851 Norderstedt
Germany
Telephone: +4940521000
Telefax: +494052100318
mail@schuelke.com
www.schuelke.com

Contact person : Product / Application advice
+49 (0)40/ 521 00 666
pab@schuelke.com

Emergency telephone : +49 (0)40 / 52 100 -0

Application : Disinfectants

2. HAZARDS IDENTIFICATION

Risk advice to man and the environment

ICAO-Labels / Indication of danger:

Xi Irritant
R10 Flammable.
R41 Risk of serious damage to eyes.
R67 Vapours may cause drowsiness and dizziness.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

Components	CAS-No.	EC-No.	Symbol	R-phrase(s)	Concentration
Propan-1-ol	71-23-8	200-746-9	F, Xi	R11, R41, R67	35 %
Ethanol	64-17-5	200-578-6	F	R11	25 %

For the full text of the R-phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice : Take off all contaminated clothing immediately.
Eye contact : In the case of contact with eyes, rinse immediately with plenty

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke -+

Mikrozid AF Liquid

No Change Service!

Version 02.03

Revision Date 08.01.2008

Print Date 08.01.2008

Inhalation : of water and seek medical advice.
: Move to fresh air.
Ingestion : Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Special protective equipment for fire-fighters : No special precautions required.
Suitable extinguishing media : Water, Dry powder, Alcohol-resistant foam, Carbon dioxide (CO₂)
Extinguishing media which shall not be used for safety reasons : No information available.
Specific risk from the substance or the product itself, its combustion products or evolved gases : Vapours may form explosive mixtures with air.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Ensure adequate ventilation. Remove all sources of ignition.
Environmental precautions : No special environmental precautions required.
Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece). Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. HANDLING AND STORAGE

Handling

Safe handling advice : Do not smoke.
Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking. The hot product gives off combustible vapours.

Storage

Requirements for storage areas and containers : Store at room temperature in the original container. Keep at temperature not exceeding 25 °C.
Further information : Keep container tightly closed. Keep away from direct sunlight.
Advice on common storage : Keep away from food and drink. Do not store together with oxidising agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value	Basis
Ethanol	64-17-5	AGW: 960 mg/m ³ AGW: 500 ppm	TRGS 900

Personal protective equipment

Hand protection : Splash protection: disposable nitrile rubber gloves e.g. Dermatril (Layer thickness: 0,11 mm) made by KCL or gloves

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke -+

Mikrozid AF Liquid

No Change Service!

Version 02.03

Revision Date 08.01.2008

Print Date 08.01.2008

from other manufacturers offering the same 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.

Eye protection : Tightly fitting safety goggles
Hygiene measures : Keep away from food and drink.
Protective measures : Avoid contact with eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid
Colour : colourless
Odour : alcoholic

Other data

solidification range : < -5 °C
initial boiling point : ca. 80 °C
Flash point : 27 °C
Method: DIN 51755 Part 1
Ignition temperature : Propan-1-ol
412 °C
Upper explosion limit : Propan-1-ol
17,5 %(V)
Lower explosion limit : Propan-1-ol
2,1 %(V)
Vapour pressure : ca.50 hPa at 20 °C
Density : ca.0,89 g/cm³ at 20 °C
Water solubility : at 20 °C
in all proportions
pH : ca.6 at 1.000 g/l (20 °C)
flow time : < 15 s at 20 °C
Method: DIN 53211

10. STABILITY AND REACTIVITY

Hazardous reactions : Vapours may form explosive mixture with air.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke -+

Mikrozid AF Liquid

No Change Service!

Version 02.03

Revision Date 08.01.2008

Print Date 08.01.2008

Hazardous decomposition products : Heating can release vapours which can be ignited.

11. TOXICOLOGICAL INFORMATION

Further information : No data is available on the product itself. The classification was made according to the calculation procedure of the Preparations Directive. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

12. ECOLOGICAL INFORMATION

Biodegradability : Readily biodegradable.
Method: OECD 301D / EEC 84/449 C6

Toxicity to bacteria : EC50 68750 mg/l
Method: OECD 209

Chemical Oxygen Demand (COD) : 13000 mg/l
Test substance: 1% solution

Further information : Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.

13. DISPOSAL CONSIDERATIONS

Product : Dispose of the product according to the defined EWC (European Waste Code) No.

Contaminated packaging : Take empty packaging to the recycling plant.

Waste key for the unused product : **EWC 070604**

Waste key for the unused product(Group) : Waste material of HZVA from fats, lubricants, soaps, detergents, disinfectants and personal protection products.

14. TRANSPORT INFORMATION

ADR : UN-Number 1987



Class 3
Classification Code F1
Packaging group III
ADR/RID-Labels 3 + 11

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke -+





Mikrozid AF Liquid

No Change Service!

Version 02.03

Revision Date 08.01.2008

Print Date 08.01.2008

IMDG	ICAO-Labels	30
	Description of the goods	ALCOHOLS, N.O.S. (Propan-1-ol, Ethanol)
	: UN-Number	1987
		 
IATA	Class	3
	EmS	F-E, S-D
	Packaging group	III
	Marine pollutant	--
	Description of the goods	ALCOHOLS, N.O.S. (PROPAN-1-OL, ETHANOL)
	: UN-Number	1987
		 
	Class	3
	Packaging group	III
	Description of the goods	Alcohols, n.o.s. (Propan-1-ol, Ethanol)

15. REGULATORY INFORMATION

General advice : In the EU, this product falls under the Directive medical devices 93/42/EEC. The product is classified and labelled in accordance with EC directives or respective national laws.

Symbol : 

Xi
Irritant

R-phrase(s) : R10 Flammable.
R41 Risk of serious damage to eyes.
R67 Vapours may cause drowsiness and dizziness.

S-phrase(s) : S23 Do not breathe spray.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39 Wear eye/face protection.
S51 Use only in well-ventilated areas.

National legislation

Legislation on the control of major-accident hazards involving dangerous substances : The product belongs to at least one of the categories 1 through 11 mentioned in Annex 1 of the Directive 1996/82/EC concerning the control of major accident hazards.

Occupational Illnesses (R- : Health effects caused by professional use of liquid organic

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke -+

Mikrozid AF Liquid

No Change Service!

Version 02.03

Revision Date 08.01.2008

Print Date 08.01.2008

463-3, France) solvents (indicated in the table).

VOC-Content : 60 %
Directive 1999/13 /EC on the limitation of emissions of volatile organic compounds

VOC-Content : 0,600 kg/kg
Switzerland. VOC Ordinance, Annex II (Products)

16. OTHER INFORMATION

Application : Information on uses can be found in a separate preparation / product brochure.

Text of R-phrases mentioned in Section 2

R11 Highly flammable.
R41 Risk of serious damage to eyes.
R67 Vapours may cause drowsiness and dizziness.

Other information

Caution! All information concerns the concentrated product!

The information given is only of use for possible safety requirements and is based on our actual knowledge. This information does not guarantee any properties. It is the responsibility of the receiver / user of our products to follow existing laws and regulations.

|| Changes compared with the previous edition!!!