

SAFETY DATA SHEET

according to the United Nations GHS (Rev. 7, 2017)

schülke -t

mikrozid® 25

Version
1.0

Revision date
14/10/2021

Date of last issue: 14/06/2021
Date of First issue: 14/06/2021

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture
Product name : **mikrozid® 25**
Type of Product : Surface Disinfectant liquid

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Surface disinfectant

1.4. Supplier's details

Supplier

Schulke India Private Limited

Delphi, A - Wing, Office No. 603,
Orchard Avenue, Hiranandani Business Park, Powai, Mumbai - 400 076,
State - Maharashtra, India.

Tel. No.: +91 22 6173 6600/ 6620

Fax No.: +91 22 6173 6650

www.schuelke.com/in-en

Email: customercare.india@schuelke.com

1.5. Emergency phone number

Emergency number : +91 22 6173 6600

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Flammable liquids, Category 3 : H226
Serious eye damage/eye irritation, Category 1 : H318

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects : Flammable liquid and vapour, Causes serious eye damage.

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN) :



Signal word (GHS UN) : Danger
Hazardous ingredients : 1-Propanol , Ethanol , 2-Propanol
Hazard statements (GHS UN) : H226 - Flammable liquid and vapour
H318 - Causes serious eye damage
Precautionary statements (GHS UN) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P233 - Keep container tightly closed.
P240 - Ground and bond container and receiving equipment.
P241 - Use explosion-proof equipment.
P242 - Use non-sparking tools.
P243 - Take action to prevent static discharges.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/....
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

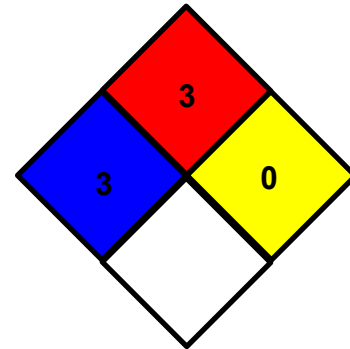
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Rinse skin with water .
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 - Immediately call a POISON CENTER/doctor/....
 P370+P378 - In case of fire: Use to extinguish.
 P403+P235 - Store in a well-ventilated place. Keep cool.
 P501 - Dispose of contents/container to

NFPA704 Hazards Rating	
Health Hazards Rating	3
Flammability Hazards Rating	3
Instability Hazards Rating	0
Special Hazards	

**2.3. Other hazards which do not result in classification**

No additional information available

SECTION 3: Composition/information on ingredients**3.1. Substances**

Not applicable

3.2. Mixtures

Name	Product identifier	%
Water	CAS-No.: 7732-18-5	72.5 – 77.5
*Ethanol	CAS-No.: 64-17-5	9 – 11
*2-Propanol	CAS-No.: 67-63-0	8.1 – 9.9
1-Propanol	CAS-No.: 71-23-8	5.4 – 6.6

Note: *Complies Indian Pharmacopeia (I.P.) Monograph

SECTION 4: First-aid measures**4.1. Description of necessary first-aid measures**

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
 First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing.
 First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
 First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms/effects, acute and delayed

- Symptoms/effects after eye contact : Serious damage to eyes.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

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SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Fire hazard : Flammable liquid and vapour.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective actions for fire-fighters

Protective equipment for firefighters : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.
Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ethanol (64-17-5)

USA - ACGIH - Occupational Exposure Limits

Local name	Ethanol
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ACGIH OEL TWA	1884 mg/m ³
ACGIH OEL TWA [ppm]	1000 ppm
ACGIH OEL STEL [ppm]	1000 ppm
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2021

2-Propanol (67-63-0)**USA - ACGIH - Occupational Exposure Limits**

Local name	2-Propanol
ACGIH OEL TWA [ppm]	200 ppm
ACGIH OEL STEL [ppm]	400 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2021

USA - ACGIH - Biological Exposure Indices

Local name	2-PROPANOL
BEI	40 mg/l Parameter: Acetone - Medium: urine - Sampling time: End of shift at end of workweek - Notations: B, Ns
Regulatory reference	ACGIH 2021

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
 Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Protective gloves
 Eye protection : Safety glasses
 Skin and body protection : Wear suitable protective clothing
 Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties**9.1. Basic physical and chemical properties**

Physical state : Liquid
 Colour : Colorless clear liquid
 Odour : Pleasant fragrance
 Odour threshold : Not available
 Melting point : Not applicable
 Freezing point : Not available
 Boiling point : 84 °C
 Flammability : Flammable liquid and vapour
 Explosive limits : Not available
 Lower explosive limit (LEL) : Not available
 Upper explosive limit (UEL) : Not available
 Flash point : 28 °C
 Auto-ignition temperature : Not available

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Decomposition temperature	:	Not available
pH	:	5-7
pH solution	:	Not available
Viscosity, kinematic (calculated value) (40 °C)	:	Not available
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50 °C	:	Not available
Density	:	0.950-0.975 g/ml
Relative density	:	Not available
Relative vapour density at 20 °C	:	Not available
Solubility	:	Misible
Particle size	:	Not applicable
Particle size distribution	:	Not applicable
Particle shape	:	Not applicable
Particle aspect ratio	:	Not applicable
Particle specific surface area	:	Not applicable

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

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

Flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Acute toxicity (oral)	:	Based on available data, the classification criteria are not met.
Acute toxicity (dermal)	:	Based on available data, the classification criteria are not met.
Acute toxicity (inhalation)	:	Based on available data, the classification criteria are not met.

2-Propanol (67-63-0)

LD50 oral rat	5840 mg/kg
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Skin corrosion/irritation	:	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	:	Causes serious eye damage.
Respiratory or skin sensitisation	:	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	:	Based on available data, the classification criteria are not met.
Carcinogenicity	:	Based on available data, the classification criteria are not met.

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Reproductive toxicity	: Based on available data, the classification criteria are not met.
STOT-single exposure	: Based on available data, the classification criteria are not met.
STOT-repeated exposure	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Based on available data, the classification criteria are not met.
Hazardous to the aquatic environment, long-term (chronic)	: Based on available data, the classification criteria are not met.

2-Propanol (67-63-0)

LC50 - Fish [2]	9640 mg/l Test organisms (species): Pimephales promelas
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12.2. Persistence and degradability

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Persistence and degradability	No additional information available
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2-Propanol (67-63-0)

Persistence and degradability	Biodegradable.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	No additional information available
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12.4. Mobility in soil

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Mobility in soil	No additional information available
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12.5. Other adverse effects

Ozone	: Not classified
Other adverse effects	: No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Flammable vapours may accumulate in the container.

SECTION 14: Transport information




In accordance with UN RTDG / IMDG / IATA /

UN RTDG	IMDG	IATA
14.1. UN number		
1987	1987	1987

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UN RTDG	IMDG	IATA
14.2. UN Proper Shipping Name		
ALCOHOLS, N.O.S.	ALCOHOLS, N.O.S.	Alcohols, n.o.s.
14.3. Transport hazard class(es)		
3	3	3
		
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No
No supplementary information available		

14.6. Special precautions for user**UN RTDG**

Special provisions : 223, 274
 Limited quantities : 5L
 Excepted quantities : E1
 Packing instruction : P001, IBC03, LP01
 Portable tank and bulk container special instructions : T4
 Portable tank and bulk container special provisions : TP1, TP2

IMDG

Special provisions : 223, 274
 Limited quantities : 5L
 Excepted quantities : E1
 Packing instructions : P001, LP01
 IBC packing instructions : IBC03
 Tank instructions : T4
 Tank special provisions : TP1, TP29
 EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
 EmS-No. (Spillage) : S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS
 Stowage category : A

IATA

PCA Excepted quantities : E1
 PCA Limited quantities : Y344
 PCA limited quantity max net quantity : 10L
 PCA packing instructions : 355
 PCA max net quantity : 60L
 CAO packing instructions : 366
 CAO max net quantity : 220L

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Special provisions : A3, A180
ERG code : 3L

14.7. Transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

Water (7732-18-5)

Regulatory reference	Listed on the United States TSCA (Toxic Substances Control Act) inventory. Listed on the Canadian DSL (Domestic Substances List). Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances). Listed on the AICS (Australian Inventory of Chemical Substances). Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances). Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory. Listed on KECL/KECI (Korean Existing Chemicals Inventory). Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China). Listed on NZIoC (New Zealand Inventory of Chemicals). Listed on INSQ (Mexican National Inventory of Chemical Substances). Listed on the TCSI (Taiwan Chemical Substance Inventory). Listed on the NCI (National Chemicals Inventory).
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2-Propanol (67-63-0)

Regulatory reference	Listed on the United States TSCA (Toxic Substances Control Act) inventory. Listed on the AICS (Australian Inventory of Chemical Substances). Listed on the Canadian DSL (Domestic Substances List). Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances). Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory. Listed on KECL/KECI (Korean Existing Chemicals Inventory). Listed on NZIoC (New Zealand Inventory of Chemicals).
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SECTION 16: Other information

Abbreviations and acronyms:

IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
PBT	Persistent Bioaccumulative Toxic
SDS	Safety Data Sheet
NOAEL	No Observed Adverse Effect Level
EC50	Median effective concentration

Safety Data Sheet (SDS), UN

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.