

SAFETY DATA SHEET

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

schülke

mikrozid® 70

Version
1.0

Revision date
14/10/2021

Date of last issue:29/06/2021
Date of First issue:29/06/2021

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture
Product name : mikroqid® 70
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 2	H225
Serious eye damage/eye irritation, Category 2	H319
Specific target organ toxicity — Single exposure, Category 3, Narcosis	H336

Adverse physicochemical, human health and environmental effects : Highly flammable liquid and vapour, May cause drowsiness or dizziness, Causes serious eye irritation.

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 :

2-Propanol

Hazard statements (GHS UN) :

H225 - Highly flammable liquid and vapour

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

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

P240 - Ground and bond container and receiving equipment

P241 - Use explosion-proof equipment

P242 - Use non-sparking tools

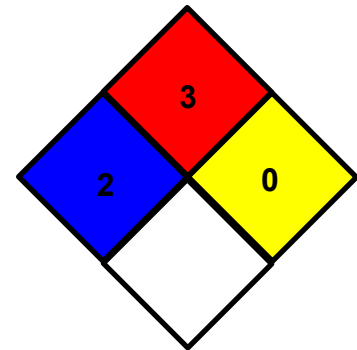
SAFETY DATA SHEET

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

schülke **mikrozid® 70**Version
1.0Revision date
14/10/2021Date of last issue:29/06/2021
Date of First issue:29/06/2021

P243 - Take action to prevent static discharges
 P261 - Avoid breathing mist/vapours/spray
 P264 - Wash ... thoroughly after handling
 P271 - Use only outdoors or in a well-ventilated area
 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. Rinse skin with water
 P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P312 - Call a POISON CENTER/doctor/if you feel unwell
 P337+P313 - If eye irritation persists: Get medical advice/attention
 P370+P378 - In case of fire: Use Water spray,Dry powder, Foam, Carbon dioxide to extinguish
 P403+P233 - Store in a well-ventilated place. Keep container tightly closed
 P403+P235 - Store in a well-ventilated place. Keep cool
 P405 - Store locked up
 P501 - Dispose of contents/container to

NFPA704 Hazards Rating	
Health Hazards Rating	2
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	%
*2-Propanol	CAS-No.: 67-63-0	66.5-73.5
Water	CAS-No.: 7732-18-5	26.5-33.5

Note: *Comply India Pharmacopeia (I.P.) Monograph

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

- First-aid measures general : Call a poison center or a doctor if you feel unwell.
- 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. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

SAFETY DATA SHEET

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

schülke 

mikrozid® 70

Version
1.0

Revision date
14/10/2021

Date of last issue:29/06/2021
Date of First issue:29/06/2021

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects : May cause drowsiness or dizziness.
Symptoms/effects after eye contact : Eye irritation.

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

Treat symptomatically.

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 : Highly 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 breathing mist/vapours/spray. 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 : 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. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. 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

SAFETY DATA SHEET

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

schülke 

mikrozid® 70

Version
1.0

Revision date
14/10/2021

Date of last issue:29/06/2021
Date of First issue:29/06/2021

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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 : 80°C
Flammability : Highly flammable liquid and vapour
Explosive limits : Not available
Lower explosive limit (LEL) : Not available
Upper explosive limit (UEL) : Not available
Flash point : 21.5°C
Auto-ignition temperature : Not available
Decomposition temperature : Not available

SAFETY DATA SHEET

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

schülke 

mikrozid® 70

Version	Revision date	Date of last issue:29/06/2021
1.0	14/10/2021	Date of First issue:29/06/2021

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	:	0.86-0.89 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

Highly 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
---------------	------------

Skin corrosion/irritation	:	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	:	Causes serious eye irritation.
Respiratory or skin sensitization	:	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.
Reproductive toxicity	:	Based on available data, the classification criteria are not met.

SAFETY DATA SHEET

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

mikrozid® 70Version
1.0Revision date
14/10/2021Date of last issue:29/06/2021
Date of First issue:29/06/2021

STOT-single exposure	: May cause drowsiness or dizziness.
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
-----------------	---

12.2. Persistence and degradability**mikrozid® 70**

Persistence and degradability	No additional information available
-------------------------------	-------------------------------------

2-Propanol (67-63-0)

Persistence and degradability	Biodegradable.
-------------------------------	----------------

12.3. Bioaccumulative potential**mikrozid® 70**

Bioaccumulative potential	No additional information available
---------------------------	-------------------------------------

12.4. Mobility in soil**mikrozid® 70**

Mobility in soil	No additional information available
------------------	-------------------------------------

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		

SAFETY DATA SHEET

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

schülke **mikrozid® 70**Version
1.0Revision date
14/10/2021Date of last issue:29/06/2021
Date of First issue:29/06/2021

1219	1219	1219
UN RTDG	IMDG	IATA
14.2. UN Proper Shipping Name		
ISOPROPANOL, SOLUTION	ISOPROPANOL, SOLUTION	Isopropanol, solution
14.3. Transport hazard class(es)		
3	3	3
		
14.4. Packing group		
II	II	II
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**

Limited quantities : 1L
 Excepted quantities : E2
 Packing instruction : P001, IBC02
 Portable tank and bulk container special instructions : T4
 Portable tank and bulk container special provisions : TP1

IMDG

Limited quantities 1L
 Excepted quantities E2
 Packing instructions P001
 IBC packing instructions IBC02
 Tank instructions T4
 Tank special provisions TP1
 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 B
 Flash point 15°C to 23°C c.c

Properties and observations

Colourless liquid. Explosive limits: 2% to 12% Flashpoint: 15°C to 23°C c.c.
 Miscible with water.

IATA

PCA Excepted quantities E2
 PCA Limited quantities Y341
 PCA limited quantity max net quantity 1L
 PCA packing instructions 353
 PCA max net quantity 5L
 CAO packing instructions 364
 CAO max net quantity 60L
 Special provisions A3
 ERG code 3L

14.7. Transport in bulk according to IMO instruments

Not applicable

SAFETY DATA SHEET

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

schülke **mikrozid® 70**Version
1.0Revision date
14/10/2021Date of last issue:29/06/2021
Date of First issue:29/06/2021**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations specific for the product in question****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).
----------------------	--

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).
----------------------	---

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.