


Microshield® 4

Version
2.1.1.1Revision date
25/07/2020Date of last issue: 25/07/2020
Date of first issue: Not available

Section 1:	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
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1.1	Product Identifier	:	Microshield® 4
1.2	Relevant identified uses of the substance or mixture and uses advised against		
	Use of the Substance/Mixture	:	Surgical Hand Scrub , Antimicrobial and Surgical Handwashing & Body Washing or Showering
	Recommended restrictions on use	:	Avoid contact with eyes. For external use only.
1.3	Details of the Supplier of the Safety Data Sheet		
	Manufacturer/ Supplier	:	Schulke India Private Limited A-24/10, Mohan Co-operative Industrial Estate, Mathura Road New Delhi – 110044 Tel. No.: +91 11 4978 6666 Fax No.: +91 11 4978 6699 www.schuelke.com/in-en/
1.4	E-mail address of person / responsible for the SDS/Contact person	:	customercare.india@schuelke.com
1.5	Emergency telephone number	:	+ 91 11 4978 6666

Section 2:	HAZARDS IDENTIFICATION
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2.1	Classification of the substance or mixture		
			Not classified as hazardous according to UN GHS criteria.
2.2	Labeling		
	Globally Harmonized System, UN (GHS)		
	Pictogram		
	Signal Word		Warning
	Hazard Statements		Not Applicable
	Precautionary Statements		P210: Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking. P233: Keep container tightly closed. P240: Ground/bond container and receiving equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. P405: Store locked up.

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P280: Wear protective gloves/protective clothing/eye protection/face protection.

P303 + P361 + P353: IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].

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

P370 + P378: In case of fire: Use CO₂ to extinguish.

P403 + P235 Store in a well-ventilated place. Keep cool.

P501: Dispose of contents/container according to local regulations

2.3 Other hazards which do not result in classification:**Section 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Sr. No	Chemical name	CAS NO. EC NO.	Composition
1	Chlorhexidine Gluconate Solution IP 20.0%	55-56-1	4 to 6%
2	Water	7732-18-5	Q.S.

Section 5: FIRST-AID MEASURES**Inhalation:**

In case of irritation of the respiratory system or mucous membranes, seek medical attention. Move to fresh air. Seek medical attention if you feel unwell or if exposure prolonged.

Skin contact:

Remove contaminated clothing. Wash affected skin with soap and plenty of water. If skin irritation or dermatitis commences or persists seek medical attention.

Eye contact:

Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do – continue rinsing. Seek medical attention.

Ingestion:

In case of spontaneous vomiting be sure that vomitus can freely drain due to danger of suffocation. Rinse mouth and then drink plenty of water. Induce vomiting (only first-aid staff) if person is conscious. Seek medical attention. Check breathing and pulse. Place victim in the recovery position, cover and keep warm. Loosen tight clothing such as a collar, tie, belt or waistband. Seek medical attention.

Advice for the doctor:

Symptomatic treatment

Section 5: FIRE-FIGHTING MEASURES**Fire extinguishing agents:**

Water spray, Foam, Carbon dioxide (CO₂), Dry powder.

Fire/explosion hazard:

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Please refer to section 9.

Specific hazards arising from the chemical:

At high temperature flammable gases may released (Please refer to section 9).

Personal protection:

Self-contained breathing apparatus.

Special exposure hazards:

Do not release chemically contaminated water into drains, soil or surface water. Sufficient measures must be taken to retain the water used for extinguishing. Dispose of contaminated water and soil according to local regulations.

Section 6: ACCIDENTAL RELEASE MEASURES**Personal protection:**

Goggles, gloves, protective clothing, respiratory protection.
Remove ignition sources and provide sufficient ventilation.

Environmental precautions:

Prevent contamination of soil, drains and surface waters.

Spillage procedure

Take up mechanically and collect in suitable container (adequately labelled) for disposal.

Section 7: HANDLING AND STORAGE**Handling****Occupational hygiene:**

Avoid ingestion, inhalation, skin and eye contact. Handle in accordance with good industrial hygiene practice and any legal requirements.

Storage:

Handling- Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

Fire precautions:

Avoid ignition sources. Ensure good local exhaust ventilation.

Keep away from heat/sparks/open flames/hot surfaces – No smoking.

Ground/bond container and receiving equipment.

Storage facilities:

Store in a cool, dry area with adequate ventilation. Keep tightly closed.

Segregation:

Store locked up.

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Store in cool and ventilated place, away from direct heat & flame.

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**Appropriate engineering controls:**

Maintain air concentrations below occupational exposure standards.

General Personal Protection:

Goggles, gloves, protective clothing

Respiratory protection:

Breathing apparatus with filter required if occupational exposure limits may be exceeded

Hand protection:

Protective gloves

Eye protection:

Goggles

Skin and body protection:

Protective clothing

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Shall be clear, semi viscous, pink liquid with characteristic fragrance. Color fade to lighter pink or orange-is permissible with aging.
State	:	Liquid (Mix with water & semi viscous)
Colour	:	Pink
Odour	:	Characteristic fragrance
pH	:	4 to 6
Melting point	:	Not tested
Boiling point	:	More than 90°C
Flash point	:	Not tested
Vapour pressure	:	Not tested
Auto-ignition temperature	:	Not tested
Decomposition temperature	:	Not tested
Density	:	0.860 to 0.890 g/ml

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Solubility in water	: Miscible
Solubility in solvents	: Not tested
n-Octanol/Water Partition Coefficient	: Not tested
Viscosity	: Not tested
Oxidizing properties	: not expected on structural indication

Section 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:

Vapors may form explosive mixture with air

Conditions to avoid:

Avoid extreme conditions. Keep away from heat/sparks/open flames/hot surfaces. See information on section 9.

Materials to avoid:

Oxidizing and reducing agents

Hazardous decomposition products:

None under normal storage conditions

Section 11: TOXICOLOGICAL INFORMATION

Chlorhexidine Gluconate Solution (CHG) is considered to be safe to use as disinfectant. The mixture is not tested for any toxicological endpoints and concentration of other ingredients is too low to pose any health hazard.

Acute toxicity

Microshield® 4 was not tested for acute toxicity.

GHS Classification is not possible.

Primary Irritation:

Microshield® Tincture 4 is not tested for any type of toxicity.

Respiratory or Skin sensitization

- Respiratory: Not tested

GHS Classification is not possible.

CMR consideration:

Microshield® 4 was not tested for Genotoxicity.

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- Mutagenicity (in-vitro, Ames test and E. coli assay):
- Mutagenicity (in-vitro, Gene mutation assay in mouse lymphoma cells):
- Mutagenicity (in-vitro, Chromosomal aberration test):
- Mutagenicity (in-vivo, Micronucleus assay in mouse):

GHS Classification is not possible**Carcinogenicity:**

Microshield® 4 was not tested for Carcinogenicity

GHS Classification is not possible.**Reproductive toxicity:**

Microshield® 4 was not tested for Reproductive toxicity

GHS Classification is not possible**Specific target organ toxicity single exposure:**

Microshield® 4 was not tested for STOT SE.

GHS Classification is not possible.

Specific target organ toxicity repeated exposure:

Microshield® 4 was not tested for STOT RE

GHS Classification is not possible.

Aspiration hazard:

Microshield® 4 was not tested for Aspiration Hazard

GHS Classification is not possible**Additional information:****Section 12: ECOLOGICAL INFORMATION****Persistence and degradability**

GHS Classification is not possible.

Behavior in treatment plants

GHS Classification is not possible.

Additional information

Do not discharge product uncontrolled into the environment.

Section 13: DISPOSAL CONSIDERATIONS**Product disposal:**

Observe specific national regulation

Contaminated packaging:

Contaminated, empty containers must be disposed of as chemical waste management.

Dispose of contents/ container in accordance with the local/regional/national/international regulations

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The substance, mixture is not considered as dangerous good according to transport regulations

Land transport (ADG) : Not Regulated for Transport of Dangerous goods

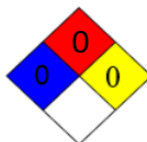
Air transport (ICAO-IATA / DGR) : Not Regulated for Transport of Dangerous goods

Sea transport (IMDG-Code) : Not Regulated for Transport of Dangerous goods

Section 15: REGULATORY INFORMATION**CLASSIFICATION AND LABELLING:**

Compliance with following regulations:

- According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS),
Third Revised Edition UNITED NATIONS New York and Geneva, 2017
- UN Recommendations on the Transport of Dangerous Goods, UNECE 2009

Section 16: OTHER INFORMATION**NFPA's Hazard Rating Diamond:****Note:**

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Recommended restrictions on use:

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

MSDS Changes

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