Microshield® Ioprep

Version	Revision date	Date of last issue: 16/02/2022
1.0	First Issue	Date of First issue: 16/02/2022

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture
Trade name : Microshield® Ioprep

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use: Ioprep is used for pre and post-surgical skin antisepsis and has broad spectrum activity against Gram +ve and Gram-ve bacteria, fungi and viruses available.

1.4. Supplier's details

Schulke India Private Limited
Delphi, A - Wing, Office No. 603, Orchard Avenue, Hiranandani Business Park, Powai,
Mumbai - 400 076, State - Maharashtra, India.
T + 91 22 6173 6600 F + 91 22 6173 6650
customercare.india@schuelke.com

1.5. Emergency phone number

No additional information available

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Skin corrosion/irritation, Category 3	H316
Serious eye damage/eye irritation, Category 2	H319
Hazardous to the aquatic environment — Acute Hazard, Category 3	H402
Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412

Adverse physicochemical, human health and environmental effects : Causes mild skin irritation,Causes serious eye irritation,Harmful to aquatic life,Harmful to aquatic life with long lasting effects.

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN) :

Signal word (GHS UN) : Warning
Hazard statements (GHS UN) : H316 - Causes mild skin irritation
H319 - Causes serious eye irritation
H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (GHS UN) : P264 - Wash … thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye, face and hearing protection….
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P501 - Dispose of contents/container to ….

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	%
Purified Water	CAS-No.: 7789-20-0	88.892 – 93.642
Nonoxynol 4 (50kg)	CAS-No.: 9016-45-9	2.25 – 3
Nonoxynol 30	CAS-No.: 9016-45-9	< 2
Iodine (30kg)	CAS-No.: 7553-56-2	1.25 – 1.8
Nonoxynol 9 (20kg)	CAS-No.: 26571-11-9	0.75 – 1.2
Sodium Acid Phosphate	CAS-No.: 13472-35-0	< 1
Sodium Iodide	CAS-No.: 7681-82-5	< 1
Dibasic sodium phosphate anhydrous	CAS-No.: 7558-79-4	< 1
Hydrochloric Acid	CAS-No.: 7647-01-0	0.108

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 : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.

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.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after skin contact : Irritation.

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

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. 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

For containment : Collect spillage.
Methods for cleaning up : Take up liquid spill into absorbent material.
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. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures : Wash contaminated clothing before reuse. 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

Storage conditions : Store in a well-ventilated place. Keep cool.
Suitable packaging material : HDPE

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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	:	Dark brown
Odour	:	Odourless
Odour threshold	:	Not available
Melting point	:	Not available
Freezing point	:	Not available
Boiling point	:	98°C
Flammability	:	Not flammable
Explosive limits	:	Not available
Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	Not applicable
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH	:	2.5-4.0
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	:	Not available
Relative density	:	Not available
Relative vapour density at 20 °C	:	Not available
Solubility	:	Soluble in water
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

The product is non-reactive under normal conditions of use, storage and transport.

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

None under recommended storage and handling conditions (see section 7).

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) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Dibasic sodium phosphate anhydrous (7558-79-4)	
LD50 oral rat	17 g/kg

Sodium Iodide (7681-82-5)	
LD50 oral rat	4340 mg/kg

Skin corrosion/irritation : Causes mild skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Harmful to aquatic life.
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

Sodium Iodide (7681-82-5)	
LC50 - Fish [1]	3780 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

12.2. Persistence and degradability

Microshield® loprep	
Persistence and degradability	No additional information available

12.3. Bioaccumulative potential

Microshield® loprep	
Bioaccumulative potential	No additional information available

12.4. Mobility in soil

Microshield® loprep	
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.

SECTION 14: Transport information

In accordance with UN RTDG / IMDG / IATA /

UN RTDG	IMDG	IATA
14.1. UN number		
Not regulated for transport		
14.2. UN Proper Shipping Name		
Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable
14.4. Packing group		
Not applicable	Not applicable	Not applicable
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
No data available

IMDG
No data available

IATA
No data available

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

Hydrochloric Acid (7647-01-0)	
Regulatory reference	Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active. Listed on the Canadian DSL (Domestic Substances List). Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances). Listed on the Canadian IDL (Ingredient Disclosure List). Listed on the United States SARA Section 302. Subject to reporting requirements of United States SARA Section 313. Listed on EPA Hazardous Air Pollutant (HAPS). Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory). 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). Japanese Poisonous and Deleterious Substances Control Law. Listed on NZIoC (New Zealand Inventory of Chemicals). Listed on the Japanese ISHL (Industrial Safety and Health Law). Listed on INSQ (Mexican National Inventory of Chemical Substances). Listed on the TCSI (Taiwan Chemical Substance Inventory). Listed on the NCI (Vietnam - National Chemicals Inventory).

Purified Water (7789-20-0)	
Regulatory reference	Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active. Listed on the Canadian DSL (Domestic Substances List). Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances). Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS 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 the TCSI (Taiwan Chemical Substance Inventory). Listed on the NCI (Vietnam - National Chemicals Inventory).

Dibasic sodium phosphate anhydrous (7558-79-4)	
Regulatory reference	Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active. Listed on the Canadian DSL (Domestic Substances List). Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances). Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory). 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 the Japanese ISHL (Industrial Safety and Health Law). Listed on INSQ (Mexican National Inventory of Chemical Substances). Listed on the TCSI (Taiwan Chemical Substance Inventory). Listed on the NCI (Vietnam - National Chemicals Inventory).

Sodium Iodide (7681-82-5)	
Regulatory reference	Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active. Listed on the Canadian DSL (Domestic Substances List). Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances). Listed on the Canadian IDL (Ingredient Disclosure List). Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory). 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 the Japanese ISHL (Industrial Safety and Health Law). Listed on INSQ (Mexican National Inventory of Chemical Substances). Listed on the TCSI (Taiwan Chemical Substance Inventory). Listed on the NCI (Vietnam - National Chemicals Inventory).

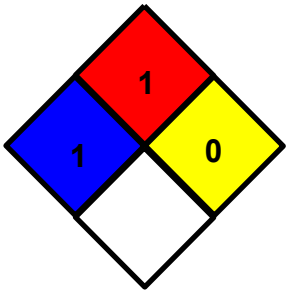
Sodium Acid Phosphate (13472-35-0)	
Regulatory reference	Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory). Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances). Listed on the Japanese ENCS (Existing New Chemical Substances) inventory. Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China). Listed on NZIoC (New Zealand Inventory of Chemicals). Listed on the TCSI (Taiwan Chemical Substance Inventory). Listed on the NCI (Vietnam - National Chemicals Inventory).

Nonoxynol 9 (20kg) (26571-11-9)	
Regulatory reference	Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active. Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances). Subject to reporting requirements of United States SARA Section 313. Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory). Listed on the Japanese ENCS (Existing New Chemical Substances) inventory. Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China). Listed on NZIoC (New Zealand Inventory of Chemicals). Listed on the Japanese ISHL (Industrial Safety and Health Law). Listed on the TCSI (Taiwan Chemical Substance Inventory).

Nonoxynol 4 (50kg) (9016-45-9)	
Regulatory reference	Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active. Listed on the Canadian DSL (Domestic Substances List). Subject to reporting requirements of United States SARA Section 313. Listed on the EU NLP (No Longer Polymers) inventory. Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory). 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). Japanese Pollutant Release and Transfer Register Law (PRTR Law). Listed on NZIoC (New Zealand Inventory of Chemicals). Listed on the Japanese ISHL (Industrial Safety and Health Law). Listed on INSQ (Mexican National Inventory of Chemical Substances). Listed on the TCSI (Taiwan Chemical Substance Inventory). Listed on the NCI (Vietnam - National Chemicals Inventory).

SECTION 16: Other information

NFPA Labels



Health-Blue：1--- Materials that cause slight to moderate irritation to the respiratory tract, eyes and skin.

Flammability-Red： 1--- Liquids that have no fire point when tested by ASTM D92, *Standard Test Method for Flash and Fire Points by Cleveland Open Cup*, up to the boiling point of the liquid or up to a temperature at which the sample being tested shows an obvious physical change.
Instability-Yellow: 0---Materials that in themselves are normally stable, even under fire conditions.
Special Hazards-White: N/A---Material is not an oxidizer, water reactive or simple asphyxiants.

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.