



## Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the GHS guidelines & India Hazardous substances (Classification, Labeling & Packaging) Draft Rules 2011.

### SECTION 1: Identification

#### 1.1. Product identifier

3M Avagard Surgical Scrub PVP 7.5%

#### Product Identification Numbers

IA-4201-0035-5      IA-4201-0036-3

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Surgical Scrub, Sanitizer

#### 1.3. Supplier's details

**Address:** 3M India Limited, plot-48-51, Electronic city, Hosur road, Bangalore-560100  
**Telephone:** 080-45543000, contact Product EHS team  
**E Mail:** [productehs.in@mmm.com](mailto:productehs.in@mmm.com)  
**Website:** <http://solutions.3mindia.co.in>

#### 1.4. Emergency telephone number

080-45543000 (Contact hours: 8:00 AM to 5:00 PM)

### SECTION 2: Hazard identification

Under MSIHC Rules, information is noted below on flammability, acute toxicity and explosivity relevant to this product. In line with international standards, information on other hazard classes and associated precautionary statements relevant to this product are included as well.

#### 2.1. Classification of the substance or mixture

Serious Eye Damage/Irritation: Category 1.

Acute Aquatic Toxicity: Category 3.

Chronic Aquatic Toxicity: Category 3.

#### 2.2. Label elements

##### Signal Word

Danger

##### Symbols

Corrosion |

**Pictograms**



**HAZARD STATEMENTS:**

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

**PRECAUTIONARY STATEMENTS**

**Prevention:**

P280A Wear eye/face protection.

**Response:**

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 or doctor/physician.

**2.3. Other hazards**

None known.

**SECTION 3: Composition/information on ingredients**

This material is a mixture.

Ingredient	CAS Nbr	% by Wt
Water	7732-18-5	75 - 85
Poly(vinylpyrrolidinone)iodide	25655-41-8	< 10
Propane-1,2-diol	57-55-6	< 10
Propan-2-ol	67-63-0	< 5
Surfactant	Trade Secret	< 5
Sodium nitrite	7632-00-0	< 1

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**Inhalation**

Remove person to fresh air. If you feel unwell, get medical attention.

**Skin contact**

No need for first aid is anticipated.

**Eye contact**

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

**If swallowed**

Rinse mouth. If you feel unwell, get medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision).

#### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable Extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

#### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

#### Hazardous Decomposition or By-Products

<u>Substance</u>	<u>Condition</u>
Aldehydes.	During combustion.
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Irritant vapours or gases.	During combustion.

#### 5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Use PPE - Exposure Assessment

Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

#### 6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

#### 6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

### SECTION 7: Handling and storage

**7.1. Precautions for safe handling**

For industrial/occupational use only. Not for consumer sale or use. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment.

**7.2. Conditions for safe storage including any incompatibilities**

No special storage requirements.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limits**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Propane-1,2-diol	57-55-6	AIHA	TWA(as aerosol):10 mg/m <sup>3</sup>	
Propan-2-ol	67-63-0	ACGIH	TWA:200 ppm;STEL:400 ppm	A4: Not class. as human carcin

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

**8.2. Exposure controls****8.2.1. Engineering controls**

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

**8.2.2. Personal protective equipment (PPE)****Eye/face protection**

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Full face shield.

Indirect vented goggles.

**Skin/hand protection**

No protective gloves required.

**Respiratory protection**

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid.
<b>Specific Physical Form:</b>	Emulsion
<b>Color</b>	Light Pink
<b>Odor</b>	Fruity Odor
<b>Odour threshold</b>	<i>No data available.</i>
<b>pH</b>	3 - 6.5
<b>Melting point/Freezing point: NA</b>	<i>Not applicable.</i>
<b>Boiling point/Initial boiling point/Boiling range</b>	<i>No data available.</i>
<b>Flash point</b>	<i>Not applicable.</i>
<b>Evaporation rate</b>	<i>No data available.</i>
<b>Flammability</b>	Not applicable.
<b>Flammable Limits(LEL)</b>	<i>No data available.</i>
<b>Flammable Limits(UEL)</b>	<i>No data available.</i>
<b>Vapour pressure</b>	<i>No data available.</i>
<b>Relative Vapor Density</b>	<i>No data available.</i>
<b>Density</b>	1 - 1.1 g/ml
<b>Relative density</b>	1 - 1.1 [Ref Std: WATER=1]
<b>Water solubility</b>	<i>No data available.</i>
<b>Solubility- non-water</b>	<i>No data available.</i>
<b>Partition coefficient: n-octanol/water</b>	<i>No data available.</i>
<b>Autoignition temperature</b>	<i>No data available.</i>
<b>Decomposition temperature</b>	<i>Not applicable.</i>
<b>Kinematic Viscosity</b>	<i>No data available.</i>
<b>Volatile organic compounds (VOC)</b>	<i>No data available.</i>
<b>Percent volatile</b>	<i>No data available.</i>
<b>VOC less H2O &amp; exempt solvents</b>	<i>No data available.</i>

<b>Particle Characteristics</b>	<i>Not applicable.</i>
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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is considered to be non reactive under normal use conditions

### 10.2 Chemical stability

Stable.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

None known.

### 10.5 Incompatible materials

None known.

### 10.6 Hazardous decomposition products

#### Substance

None known.

#### Condition

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1 Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

#### Skin contact

Contact with the skin during product use is not expected to result in significant irritation.

#### Eye contact

Corrosive (eye burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

#### Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

#### Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Poly(vinylpyrrolidinone)iodide	Dermal	Rat	LD50 > 2,500 mg/kg
Poly(vinylpyrrolidinone)iodide	Ingestion	Rat	LD50 > 4,640 mg/kg
Propane-1,2-diol	Dermal	Rabbit	LD50 20,800 mg/kg
Propane-1,2-diol	Ingestion	Rat	LD50 22,000 mg/kg
Propan-2-ol	Dermal	Rabbit	LD50 12,870 mg/kg
Propan-2-ol	Inhalation-Vapor (4 hours)	Rat	LC50 72.6 mg/l
Propan-2-ol	Ingestion	Rat	LD50 4,710 mg/kg
Surfactant	Dermal	Rat	LD50 > 2,000 mg/kg
Surfactant	Ingestion	Rat	LD50 2,870 mg/kg
Sodium nitrite	Ingestion	Rat	LD50 180 mg/kg

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

Name	Species	Value
Overall product	Rabbit	No significant irritation
Poly(vinylpyrrolidinone)iodide	Rabbit	Irritant
Propane-1,2-diol	Rabbit	No significant irritation
Propan-2-ol	Multiple animal species	No significant irritation

**3M Avagard Surgical Scrub PVP 7.5%**

Surfactant	Rabbit	Irritant
Sodium nitrite	Rabbit	No significant irritation

**Serious Eye Damage/Irritation**

Name	Species	Value
Poly(vinylpyrrolidinone)iodide	Rabbit	Corrosive
Propane-1,2-diol	Rabbit	No significant irritation
Propan-2-ol	Rabbit	Severe irritant
Surfactant	Rabbit	Corrosive
Sodium nitrite	Rabbit	Severe irritant

**Sensitization:****Skin Sensitisation**

Name	Species	Value
Overall product	Guinea pig	Not classified
Poly(vinylpyrrolidinone)iodide	Guinea pig	Not classified
Propane-1,2-diol	Human	Not classified
Propan-2-ol	Guinea pig	Not classified
Surfactant	Guinea pig	Not classified

**Respiratory Sensitisation**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity**

Name	Route	Value
Poly(vinylpyrrolidinone)iodide	In vivo	Not mutagenic
Poly(vinylpyrrolidinone)iodide	In Vitro	Some positive data exist, but the data are not sufficient for classification
Propane-1,2-diol	In Vitro	Not mutagenic
Propane-1,2-diol	In vivo	Not mutagenic
Propan-2-ol	In Vitro	Not mutagenic
Propan-2-ol	In vivo	Not mutagenic
Surfactant	In Vitro	Not mutagenic
Surfactant	In vivo	Not mutagenic
Sodium nitrite	In Vitro	Some positive data exist, but the data are not sufficient for classification
Sodium nitrite	In vivo	Some positive data exist, but the data are not sufficient for classification

**Carcinogenicity**

Name	Route	Species	Value
Propane-1,2-diol	Dermal	Mouse	Not carcinogenic
Propane-1,2-diol	Ingestion	Multiple animal species	Not carcinogenic
Propan-2-ol	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
Sodium nitrite	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

**3M Avagard Surgical Scrub PVP 7.5%**

Name	Route	Value	Species	Test result	Exposure Duration
Propane-1,2-diol	Ingestion	Not classified for female reproduction	Mouse	NOAEL 10,100 mg/kg/day	2 generation
Propane-1,2-diol	Ingestion	Not classified for male reproduction	Mouse	NOAEL 10,100 mg/kg/day	2 generation
Propane-1,2-diol	Ingestion	Not classified for development	Multiple animal species	NOAEL 1,230 mg/kg/day	during organogenesis
Propan-2-ol	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	2 generation
Propan-2-ol	Ingestion	Not classified for male reproduction	Rat	NOAEL 500 mg/kg/day	2 generation
Propan-2-ol	Ingestion	Not classified for development	Rat	NOAEL 400 mg/kg/day	during organogenesis
Propan-2-ol	Inhalation	Not classified for development	Rat	LOAEL 9 mg/l	during gestation
Surfactant	Ingestion	Not classified for female reproduction	Rat	NOAEL 300 mg/kg/day	90 days
Surfactant	Ingestion	Not classified for male reproduction	Rat	NOAEL 300 mg/kg/day	90 days
Surfactant	Ingestion	Not classified for development	Rat	NOAEL 300 mg/kg/day	2 generation
Sodium nitrite	Ingestion	Not classified for female reproduction	Mouse	NOAEL 425 mg/kg/day	2 generation
Sodium nitrite	Ingestion	Not classified for male reproduction	Mouse	NOAEL 425 mg/kg/day	2 generation
Sodium nitrite	Ingestion	Not classified for development	Rat	NOAEL 50 mg/kg/day	gestation into lactation

**Target Organ(s)**
**Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Poly(vinylpyrrolidinone)iodide	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Propane-1,2-diol	Ingestion	central nervous system depression	Not classified	Human and animal	NOAEL Not available	
Propan-2-ol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Propan-2-ol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
Propan-2-ol	Inhalation	auditory system	Not classified	Guinea pig	NOAEL 13.4 mg/l	24 hours
Propan-2-ol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
Surfactant	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Sodium nitrite	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Sodium nitrite	Ingestion	methemoglobinemia	Causes damage to organs	Human	NOAEL Not available	

**Specific Target Organ Toxicity - repeated exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Poly(vinylpyrrolidinone)iodide	Ingestion	endocrine system	Not classified	similar	NOAEL Not available	

**3M Avagard Surgical Scrub PVP 7.5%**

dide				compounds	available	
Propane-1,2-diol	Ingestion	hematopoietic system	Not classified	Multiple animal species	NOAEL 1,370 mg/kg/day	117 days
Propane-1,2-diol	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 5,000 mg/kg/day	104 weeks
Propan-2-ol	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 12.3 mg/l	24 months
Propan-2-ol	Inhalation	nervous system	Not classified	Rat	NOAEL 12 mg/l	13 weeks
Propan-2-ol	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 400 mg/kg/day	12 weeks
Surfactant	Dermal	skin	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Surfactant	Dermal	heart	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Surfactant	Dermal	endocrine system	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Surfactant	Dermal	gastrointestinal tract	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Surfactant	Dermal	hematopoietic system	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Surfactant	Dermal	liver	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Surfactant	Dermal	immune system	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Surfactant	Dermal	nervous system	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Surfactant	Dermal	eyes	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Surfactant	Dermal	kidney and/or bladder	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Surfactant	Dermal	respiratory system	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Surfactant	Dermal	vascular system	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Surfactant	Ingestion	blood	Not classified	Rat	NOAEL 225 mg/kg/day	90 days
Surfactant	Ingestion	eyes	Not classified	Rat	NOAEL 225 mg/kg/day	90 days
Sodium nitrite	Ingestion	skin	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks
Sodium nitrite	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks
Sodium nitrite	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks
Sodium nitrite	Ingestion	eyes	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks
Sodium nitrite	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks
Sodium nitrite	Ingestion	heart	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks
Sodium nitrite	Ingestion	endocrine system	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks
Sodium nitrite	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks
Sodium nitrite	Ingestion	liver	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks
Sodium nitrite	Ingestion	immune system	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks
Sodium nitrite	Ingestion	muscles	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks
Sodium nitrite	Ingestion	nervous system	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks
Sodium nitrite	Ingestion	respiratory system	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks

**3M Avagard Surgical Scrub PVP 7.5%**

					mg/kg/day	
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**Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

**SECTION 12: Ecological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

**12.1. Toxicity****Acute aquatic hazard:**

GHS Acute 3: Harmful to aquatic life.

**Chronic aquatic hazard:**

GHS Chronic 3: Harmful to aquatic life with long lasting effects.

No product test data available.

Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
Poly(vinylpyrrolidone)iodide	25655-41-8	Golden Orfe	Experimental	96 hours	LC50	4.6 mg/l
Poly(vinylpyrrolidone)iodide	25655-41-8	Green algae	Experimental	72 hours	ErC50	4.91 mg/l
Poly(vinylpyrrolidone)iodide	25655-41-8	Water flea	Experimental	48 hours	EC50	2.79 mg/l
Poly(vinylpyrrolidone)iodide	25655-41-8	Bacteria	Experimental	17 hours	EC10	270 mg/l
Propane-1,2-diol	57-55-6	Amphipod	Experimental	10 days	LC50	6,983 mg/kg (Dry Weight)
Propane-1,2-diol	57-55-6	Green algae	Experimental	96 hours	EC50	19,000 mg/l
Propane-1,2-diol	57-55-6	Mysid Shrimp	Experimental	96 hours	LC50	18,800 mg/l
Propane-1,2-diol	57-55-6	Rainbow trout	Experimental	96 hours	LC50	40,613 mg/l
Propane-1,2-diol	57-55-6	Water flea	Experimental	48 hours	EC50	18,340 mg/l
Propane-1,2-diol	57-55-6	Green algae	Experimental	96 hours	NOEC	15,000 mg/l
Propane-1,2-diol	57-55-6	Water flea	Experimental	7 days	NOEC	13,020 mg/l
Propane-1,2-diol	57-55-6	Bacteria	Experimental	18 hours	NOEC	>20,000 mg/l
Propan-2-ol	67-63-0	Bacteria	Experimental	16 hours	LOEC	1,050 mg/l
Propan-2-ol	67-63-0	Green algae	Experimental	72 hours	EC50	>1,000 mg/l
Propan-2-ol	67-63-0	Invertebrate	Experimental	24 hours	LC50	>10,000 mg/l
Propan-2-ol	67-63-0	Medaka	Experimental	96 hours	LC50	>100 mg/l
Propan-2-ol	67-63-0	Water flea	Experimental	48 hours	EC50	>1,000 mg/l
Propan-2-ol	67-63-0	Green algae	Experimental	72 hours	NOEC	1,000 mg/l
Propan-2-ol	67-63-0	Water flea	Experimental	21 days	NOEC	100 mg/l
Surfactant	Trade Secret	Bacteria	Experimental	16 hours	ErC50	>10,000 mg/l
Surfactant	Trade Secret	Green algae	Experimental	72 hours	ErC50	27.7 mg/l
Surfactant	Trade Secret	Water flea	Experimental	48 hours	EC50	7.2 mg/l
Surfactant	Trade Secret	Zebra Fish	Experimental	96 hours	LC50	7.1 mg/l
Surfactant	Trade Secret	Water flea	Analogous Compound	21 days	NOEC	0.27 mg/l
Surfactant	Trade Secret	Green algae	Experimental	72 hours	NOEC	0.95 mg/l
Sodium nitrite	7632-00-0	Green algae	Experimental	72 hours	EC50	>100 mg/l
Sodium nitrite	7632-00-0	Invertebrate	Experimental	48 hours	LC50	37 mg/l
Sodium nitrite	7632-00-0	Rainbow trout	Experimental	96 hours	LC50	0.9 mg/l

**3M Avagard Surgical Scrub PVP 7.5%**

Sodium nitrite	7632-00-0	Fathead minnow	Estimated	32 days	NOEC	3.1 mg/l
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**12.2. Persistence and degradability**

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Poly(vinylpyrrolidone)iodide	25655-41-8	Experimental Biodegradation	28 days	CO2 evolution	<10 %CO2 evolution/THCO2 evolution	ISO 14593 Inorg C Headspace
Propane-1,2-diol	57-55-6	Experimental Biodegradation	28 days	BOD	90 %BOD/ThOD	OECD 301C - MITI test (I)
Propane-1,2-diol	57-55-6	Experimental Biodegradation	64 days	Dissolv. Organic Carbon Deplet	95.8 %removal of DOC	OECD 306(Misc)-Biodegrad. Seaw
Propan-2-ol	67-63-0	Experimental Biodegradation	14 days	BOD	86 %BOD/ThOD	OECD 301C - MITI test (I)
Surfactant	Trade Secret	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	100 %CO2 evolution/THCO2 evolution	EC C.4.C. CO2 Evolution Test
Sodium nitrite	7632-00-0	Data not available-insufficient	N/A	N/A	N/A	N/A

**12.3 : Bioaccumulative potential**

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Poly(vinylpyrrolidone)iodide	25655-41-8	Unknown Bioconcentration		Log Kow	0.81	
Propane-1,2-diol	57-55-6	Experimental Bioconcentration		Log Kow	-1.07	EC A.8 Partition Coefficient
Propan-2-ol	67-63-0	Experimental Bioconcentration		Log Kow	0.05	
Surfactant	Trade Secret	Experimental Bioconcentration		Log Kow	0.3	OECD 123 log Kow slow stir
Sodium nitrite	7632-00-0	Experimental Bioconcentration		Log Kow	-3.7	OECD 107 log Kow shke flask mtd

**12.4. Mobility in soil**

Please contact manufacturer for more details

**12.5 Other Adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1. Disposal methods**

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

Dispose of waste product in a permitted industrial waste facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

**SECTION 14: Transport Information**

Not hazardous for transportation.

### Air Transport (IATA) Regulations

**UN No** Not applicable  
**Proper Shipping Name** Not applicable  
**Hazard Class/Division** Not applicable  
**Subsidiary Risk** Not applicable  
**Other Dangerous Goods Descriptions:** None assigned.

**Packing Group:** Not applicable

### Marine Transport (IMDG)

**UN No** Not applicable  
**Proper Shipping Name** Not applicable  
**Hazard Class/Division** Not applicable  
**Subsidiary Risk** Not applicable  
**Other Dangerous Goods Descriptions:** None assigned.

**Packing Group:** Not applicable

**Environmental Hazards:** Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Global inventory status

Contact 3M for more information.

#### Applicable Environmental, Health and Safety Regulations

The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989  
The Bio Medical Waste (Management & Handling) Rules, 1998  
Hazardous Chemicals (Classification, Packaging and Labelling Draft Rules), 2011

The following ingredients are listed as hazardous on Part II of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules  
Propan-2-ol

The following ingredients are classified as hazardous based on the criteria listed under Part I of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules:  
The product is classified as Non-Hazardous as per MSIHC Rules, 1989.

## SECTION 16: Other information

#### NFPA Hazard Classification

**Health:** 3    **Flammability:** 1    **Instability:** 0    **Special Hazards:** None

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.

#### Revision information:

Label: GHS Classification information was added.  
Label: GHS Classification information was modified.  
Label: GHS Precautionary - Prevention information was modified.  
Label: GHS Precautionary - Response information was added.  
Label: GHS Target Organ Hazard Statement information was deleted.

Label: Graphic information was modified.  
Label: Symbol information was modified.  
Section 2: Ingredient table information was modified.  
Section 04: First Aid - Symptoms and Effects (GHS) information was modified.  
Section 4: First aid for eye contact information information was modified.  
Section 4: First aid for skin contact information information was modified.  
Section 5: Hazardous combustion products table information was modified.  
Section 6: Accidental release personal information information was modified.  
Section 7: Precautions safe handling information information was modified.  
Section 8: Eye protection information information was deleted.  
Section 8: Eye/face protection information information was added.  
Section 8: Occupational exposure limit table information was modified.  
Section 8: Personal Protection - Eye information information was added.  
Section 8: Respiratory protection - recommended respirators information information was modified.  
Section 9: Flammability (solid, gas) information information was deleted.  
Section 09: Flammability information information was added.  
Section 09: Kinematic Viscosity information information was added.  
Section 09: Particle Characteristics N/A information was added.  
Section 09: Vapor Density Value information was modified.  
Section 09: Viscosity information was deleted.  
Section 11: Acute Toxicity table information was modified.  
Section 11: Carcinogenicity Table information was modified.  
Section 11: Germ Cell Mutagenicity Table information was modified.  
Section 11: Health Effects - Eye information information was modified.  
Section 11: Health Effects - Ingestion information information was modified.  
Section 11: Prolonged or repeated exposure may cause standard phrases information was deleted.  
Section 11: Reproductive Toxicity Table information was modified.  
Section 11: Serious Eye Damage/Irritation Table information was modified.  
Section 11: Skin Corrosion/Irritation Table information was modified.  
Section 11: Skin Sensitization Table information was modified.  
Section 11: Target Organs - Repeated Table information was modified.  
Section 11: Target Organs - Single Table information was modified.  
Section 12: Component ecotoxicity information information was modified.  
Section 12: Persistence and Degradability information information was modified.  
Section 12: Bioaccumulative potential information information was modified.  
Section 14: Air Transport - Other Dangerous Goods Descriptions heading information was added.  
Section 14: Marine Transport - Other Dangerous Goods Descriptions heading information was added.  
Section 14: Other Dangerous Goods Descriptions (IATA) information was added.  
Section 14: Other Dangerous Goods Descriptions (IMO) information was added.  
Section 15: MSIHC Ingredients information was modified.  
Section 16: NFPA hazard classification for health information was modified.

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