

### SECTION 1: Identification

#### 1.1. GHS Product identifier

Product form : Mixture  
Product name : mikrozyd® HP wipes

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Surface Disinfection

#### 1.4. Supplier's details

##### Supplier

Schulke India Private Limited  
Delphi, A - Wing, Office No. 603, Orchard Avenue, Hiranandani Business Park, Powai,  
400076 Mumbai – Maharashtra  
India  
T +91 22 6173 6600 - F +91 22 6173 6650  
[customercare.india@schuelke.com](mailto: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

Hazardous to the aquatic environment – Acute Hazard, Category 2 H401  
Full text of H-statements: see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### Labelling according to the United Nations GHS

Signal word (GHS UN) : No Signal word  
Hazard statements (GHS UN) : H401 - Toxic to aquatic life  
Precautionary statements (GHS UN) : P273 - Avoid release to the environment.  
P501 - Dispose of contents/container to hazardous or special waste collection point.

#### 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

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### 3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
Water	CAS-No.: 7732-18-5	95.39 – 97.979	Acute Tox. Not classified (Oral)
Ethyl alcohol	CAS-No.: 64-17-5	0.5 – 2	Flam. Liq. 2, H225 Acute Tox. Not classified (Oral) Acute Tox. Not classified (Inhalation:dust,mist) Eye Irrit. 2, H319 Aquatic Acute 2, H401 Aquatic Chronic Not classified
hydrogen peroxide solution... %	CAS-No.: 7722-84-1	1.4	Acute Tox. 4 (Oral), H302 Acute Tox. Not classified (Dermal) Acute Tox. 4 (Inhalation:dust,mist), H332 Aquatic Acute 2, H401
Trisodium citrate dihydrate	CAS-No.: 6132-04-3	0.1 – 1	Not classified
Acetic acid	CAS-No.: 64-19-7	0.01 – 0.2	Flam. Liq. 3, H226 Acute Tox. 5 (Oral), H303 Acute Tox. 4 (Dermal), H312 Acute Tox. Not classified (Inhalation:dust,mist) STOT RE Not classified Aquatic Acute 3, H402
Silver nitrate	CAS-No.: 7761-88-8	0.01	Acute Tox. 4 (Oral), H302 Acute Tox. 5 (Dermal), H313 STOT RE Not classified Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)
Poly(oxy-1,2-ethanediyl), -alpha.-sulfo-.omega.-(dodecyloxy)-, sodium salt	CAS-No.: 9004-82-4	0.001 – 0.01	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

## SECTION 4: First-aid measures

### 4.1. Description of necessary first-aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
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### 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 : Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Fire hazard : On combustion forms: Flammable solid.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

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

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.  
Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection. 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

Protective equipment : Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and no smoking.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 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. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. 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. Wear personal protective equipment. Provide good ventilation in process area to prevent formation of vapour. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment.  
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Ground/bond container and receiving equipment.
Storage conditions	: Keep container tightly closed in a cool, well-ventilated place. Keep container closed when not in use. Keep cool. Protect from sunlight. Keep away from ignition sources. Store in a well-ventilated place.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

hydrogen peroxide solution... % (7722-84-1)	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Hydrogen peroxide
ACGIH OEL TWA [ppm]	1 ppm
Remark (ACGIH)	TLV® Basis: Eye, URT, & skin irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Regulatory reference	ACGIH 2023
<b>Acetic acid (64-19-7)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Acetic acid
IOEL TWA	25 mg/m <sup>3</sup>
IOEL TWA [ppm]	10 ppm
IOEL STEL	50 mg/m <sup>3</sup>
IOEL STEL [ppm]	20 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Acetic acid
ACGIH OEL TWA [ppm]	10 ppm
ACGIH OEL STEL [ppm]	15 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr; pulm func
Regulatory reference	ACGIH 2023
<b>Ethyl alcohol (64-17-5)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Ethanol
ACGIH OEL STEL [ppm]	1000 ppm
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Regulatory reference	ACGIH 2023

### 8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.
Other information	: Do not eat, drink or smoke during use.

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

Hand protection	: Wear protective gloves. Wear suitable gloves tested to EN374
Eye protection	: Chemical goggles or safety glasses. Use eye protection according to EN 166. Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear appropriate mask
Personal protective equipment symbol(s)	



### 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	: White moist fabric with a characteristic odour
Colour	: Not available
Odour	: characteristic odour
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Approx 100°C
Flammability	: Non flammable
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 5.5 – 7.5
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.

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### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

Acids, Alkalis and oxidizing agents.

### 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

#### hydrogen peroxide solution... % (7722-84-1)

LD50 oral rat	1518 mg/kg
LD50 oral	694 mg/kg bodyweight
LD50 dermal rabbit	9200 mg/kg
LD50 dermal	700 mg/kg bodyweight
LC50 Inhalation - Rat	2000 mg/m <sup>3</sup> (Exposure time: 4 h)
LC50 Inhalation - Rat (Dust/Mist)	> 170 mg/l

#### Silver nitrate (7761-88-8)

LD50 oral rat	1173 mg/kg
LD50 oral	1170 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	> 750 µg/m <sup>3</sup> (Exposure time: 4 h)

#### Acetic acid (64-19-7)

LD50 oral rat	3310 mg/kg
LD50 oral	3310 mg/kg bodyweight
LD50 dermal rabbit	1060 mg/kg
LD50 dermal	1060 mg/kg bodyweight
LC50 Inhalation - Rat	11.4 mg/l/4h
LC50 Inhalation - Rat [ppm]	16000 ppm Source: ChemIDPlus

#### Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(dodecyloxy)-, sodium salt (9004-82-4)

LD50 oral rat	1600 mg/kg
LD50 oral	1600 mg/kg
LD50 dermal rabbit	1600 mg/kg Source: Corporate Solution From Thomson Micromedex

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Ethyl alcohol (64-17-5)	
LD50 oral rat	7060 mg/kg
LD50 oral	10470 mg/kg bodyweight
LD50 dermal	15800 mg/kg bodyweight
LC50 Inhalation - Rat	133.8 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	> 99999 mg/l
LC50 Inhalation - Rat (Vapours)	116.9 mg/l Source: ECHA

Water (7732-18-5)	
LD50 oral rat	> 90 ml/kg
LD50 oral	> 90000 mg/kg bodyweight
LD50 dermal	> 90000 mg/kg bodyweight

Skin corrosion/irritation	: Not classified pH: 5.5 – 7.5
Serious eye damage/irritation	: Not classified pH: 5.5 – 7.5
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

Silver nitrate (7761-88-8)	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Acetic acid (64-19-7)	
NOAEL (oral, rat, 90 days)	290 mg/kg bodyweight Animal: rat, Animal sex: male

Aspiration hazard	: Not classified
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Toxic to aquatic life.
Classification procedure (Hazardous to the aquatic environment, short-term (acute))	: Expert judgement
Hazardous to the aquatic environment, long-term (chronic)	: Not classified.
Classification procedure (Hazardous to the aquatic environment, long-term (chronic))	: Expert judgement

hydrogen peroxide solution... % (7722-84-1)	
LC50 - Fish [1]	16.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
LC50 - Fish [2]	18 – 56 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea [1]	18 – 32 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 - Other aquatic organisms [1]	7.7 mg/l waterflea
EC50 - Other aquatic organisms [2]	1.38 mg/l
EC50 72h - Algae [1]	1.38 mg/l Test organisms (species): Skeletonema costatum

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<b>hydrogen peroxide solution... % (7722-84-1)</b>	
LOEC (chronic)	1.25 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.63 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
<b>Silver nitrate (7761-88-8)</b>	
LC50 - Fish [1]	0.00512 – 0.00787 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [semi-static])
LC50 - Fish [2]	0.009 – 0.02 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
EC50 - Crustacea [1]	0.0006 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Crustacea [2]	0.0008 – 0.001 mg/l (Exposure time: 48 h - Species: Daphnia magna [Flow through])
NOEC chronic fish	0.00016 mg/l
<b>Acetic acid (64-19-7)</b>	
LC50 - Fish [1]	79 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
LC50 - Fish [2]	75 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea [1]	65 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 - Crustacea [2]	> 300.82 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	> 1000 mg/l waterflea
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): Skeletonema costatum
EC50 72h - Algae [2]	> 300.82 mg/l Test organisms (species): Skeletonema costatum
<b>Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(dodecyloxy)-, sodium salt (9004-82-4)</b>	
EC50 - Crustacea [1]	3.12 mg/l
<b>Ethyl alcohol (64-17-5)</b>	
LC50 - Fish [1]	12 – 16 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
LC50 - Fish [2]	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	9268 – 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Crustacea [2]	2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 - Other aquatic organisms [1]	5012 mg/l waterflea
EC50 - Other aquatic organisms [2]	275 mg/l
ErC50 algae	1000 mg/l
NOEC chronic crustacea	9.6 mg/l
<b>12.2. Persistence and degradability</b>	
<b>mikrozyd® HP wipes</b>	
Persistence and degradability	Not established.
<b>hydrogen peroxide solution... % (7722-84-1)</b>	
Persistence and degradability	Readily biodegradable.
<b>Silver nitrate (7761-88-8)</b>	
Not rapidly degradable	
<b>Trisodium citrate dihydrate (6132-04-3)</b>	
Not rapidly degradable	
<b>Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(dodecyloxy)-, sodium salt (9004-82-4)</b>	
Not rapidly degradable	



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### Water (7732-18-5)

Not rapidly degradable

### 12.3. Bioaccumulative potential

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Bioaccumulative potential Not established.

### Acetic acid (64-19-7)

Partition coefficient n-octanol/water (Log Kow) -0.17 (at 25 °C (at pH 7)

### Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(dodecyloxy)-, sodium salt (9004-82-4)

Partition coefficient n-octanol/water (Log Kow) 1.62 Source: Quantitative Structure Activity Relation

### Ethyl alcohol (64-17-5)

Partition coefficient n-octanol/water (Log Kow) -0.35 (at 24 °C (at pH 7.4)

### Water (7732-18-5)

Partition coefficient n-octanol/water (Log Kow) -1.38

### 12.4. Mobility in soil

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Mobility in soil No additional information available

### 12.5. Other adverse effects

Ozone : Not classified  
Other adverse effects : No additional information available  
Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Product/Packaging disposal recommendations : Dispose of in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with UN RTDG / IMDG / IATA /

UN RTDG	IMDG	IATA
<b>14.1. UN number</b>		
Not regulated for transport		
<b>14.2. UN Proper Shipping Name</b>		
Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>		
Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable

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UN RTDG	IMDG	IATA
<b>14.4. Packing group</b>		
Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>		
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

hydrogen peroxide solution... % (7722-84-1)	
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. 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 Chemical Inventory).

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### hydrogen peroxide solution... % (7722-84-1)

State or local regulations

U.S. - New Jersey - Right to Know Hazardous Substance List. U.S. - Pennsylvania - RTK (Right to Know) List. U.S. - Minnesota - Hazardous Substance List. U.S. - Massachusetts - Right To Know List. U.S. - New Jersey - Special Health Hazards Substances List. U.S. - New Jersey - Environmental Hazardous Substances List. U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances. U.S. - Tennessee - Occupational Exposure Limits - TWAs. U.S. - Vermont - Permissible Exposure Limits - TWAs. U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr). U.S. - Washington - Permissible Exposure Limits - TWAs. U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min). U.S. - Washington - Permissible Exposure Limits - STELs. U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs). U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations. U.S. - New York - Occupational Exposure Limits - TWAs. U.S. - Michigan - Occupational Exposure Limits - TWAs. U.S. - Minnesota - Permissible Exposure Limits - TWAs. U.S. - Wyoming - Process Safety Management - Highly Hazardous Chemicals. U.S. - Michigan - Process Safety Management Highly Hazardous Chemicals. U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity. U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2. U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2. U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1. U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1. U.S. - Delaware - Accidental Release Prevention Regulations - Sufficient Quantities. U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities. U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances. U.S. - Oregon - Permissible Exposure Limits - TWAs. U.S. - Texas - Effects Screening Levels - Long Term. U.S. - Texas - Effects Screening Levels - Short Term. U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List. U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater. U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet. U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet. U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet. U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour. U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour. U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual.

### Silver nitrate (7761-88-8)

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). Japanese Poisonous and Deleterious Substances Control Law. 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 Chemical Inventory).

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State or local regulations

U.S. - New Jersey - Right to Know Hazardous Substance List. U.S. - Pennsylvania - RTK (Right to Know) List. U.S. - Massachusetts - Right To Know List. U.S. - New Jersey - Special Health Hazards Substances List. U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances. U.S. - Massachusetts - Toxics Use Reduction Act. U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity. U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2. U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2. U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1. U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1. U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities. U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances. U.S. - Texas - Effects Screening Levels - Long Term. U.S. - Texas - Effects Screening Levels - Short Term. U.S. - Michigan - Polluting Materials List. U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List.

### Acetic acid (64-19-7)

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 Chemical Inventory).

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<b>Acetic acid (64-19-7)</b>	
State or local regulations	U.S. - New Jersey - Right to Know Hazardous Substance List. U.S. - Pennsylvania - RTK (Right to Know) List. U.S. - Minnesota - Hazardous Substance List. U.S. - Massachusetts - Right To Know List. U.S. - New Jersey - Special Health Hazards Substances List. U.S. - North Carolina - Control of Toxic Air Pollutants. U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances. U.S. - Tennessee - Occupational Exposure Limits - TWAs. U.S. - Massachusetts - Toxics Use Reduction Act. U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr). U.S. - Washington - Permissible Exposure Limits - TWAs. U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min). U.S. - Washington - Permissible Exposure Limits - STELs. U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs). U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations. U.S. - New York - Occupational Exposure Limits - TWAs. U.S. - Michigan - Occupational Exposure Limits - TWAs. U.S. - Minnesota - Permissible Exposure Limits - TWAs. U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity. U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2. U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2. U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1. U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1. U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities. U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances. U.S. - Oregon - Permissible Exposure Limits - TWAs. U.S. - Texas - Effects Screening Levels - Long Term. U.S. - Texas - Effects Screening Levels - Short Term. U.S. - Michigan - Polluting Materials List. U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List. U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater. U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet. U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet. U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet. U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour. U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour. U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour. U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual.
<b>Trisodium citrate dihydrate (6132-04-3)</b>	
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 Chemical Inventory).
State or local regulations	U.S. - Texas - Effects Screening Levels - Long Term. U.S. - Texas - Effects Screening Levels - Short Term.
<b>Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(dodecyloxy)-, sodium salt (9004-82-4)</b>	
Regulatory reference	Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active. Listed on the Canadian DSL (Domestic Substances List). Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory). Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances). 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 TCSI (Taiwan Chemical Substance Inventory). Listed on the NCI (Vietnam - National Chemical Inventory).
State or local regulations	U.S. - Texas - Effects Screening Levels - Long Term. U.S. - Texas - Effects Screening Levels - Short Term.

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Ethyl alcohol (64-17-5)	
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 Chemical Inventory).
State or local regulations	U.S. - New Jersey - Right to Know Hazardous Substance List. U.S. - Pennsylvania - RTK (Right to Know) List. U.S. - Minnesota - Hazardous Substance List. U.S. - Massachusetts - Right To Know List. U.S. - New Jersey - Special Health Hazards Substances List. U.S. - Tennessee - Occupational Exposure Limits - TWAs. U.S. - Vermont - Permissible Exposure Limits - TWAs. U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr). U.S. - Washington - Permissible Exposure Limits - TWAs. U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min). U.S. - Washington - Permissible Exposure Limits - STELs. U.S. - Massachusetts - Threshold Effects Exposure Limits (TELs). U.S. - Massachusetts - Allowable Ambient Limits (AALs). U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs). U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations. U.S. - Illinois - Toxic Air Contaminant Carcinogens. U.S. - New York - Occupational Exposure Limits - TWAs. U.S. - Michigan - Occupational Exposure Limits - TWAs. U.S. - Minnesota - Permissible Exposure Limits - TWAs. U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity. U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2. U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2. U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1. U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1. U.S. - Oregon - Permissible Exposure Limits - TWAs. U.S. - Texas - Effects Screening Levels - Long Term. U.S. - Texas - Effects Screening Levels - Short Term. U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs). U.S. - Texas - City of Austin - Aerosol Paint and Glue Restrictions. U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour. U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour. U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual. U.S. - Maine - Chemicals of Concern. U.S. - Minnesota - Chemicals of High Concern.

Water (7732-18-5)	
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 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 INSQ (Mexican National Inventory of Chemical Substances). Listed on the TCSI (Taiwan Chemical Substance Inventory). Listed on the NCI (Vietnam - National Chemical Inventory).

### SECTION 16: Other information

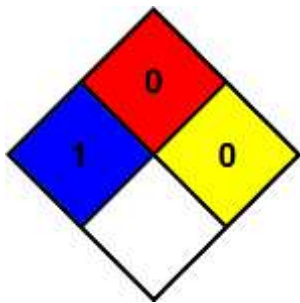
Issue date : 24/03/2023  
Revision date : 24/03/2023

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## Safety Data Sheet

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### NFPA Labels



NFPA health hazard	: 1 - Materials that, under emergency conditions, can cause significant irritation.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
NFPA specific hazard	: None

Abbreviations and acronyms	: <ul style="list-style-type: none"><li>ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways</li><li>ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road</li><li>ATE - Acute Toxicity Estimate</li><li>BCF - Bioconcentration factor</li><li>BLV - Biological limit value</li><li>BOD - Biochemical oxygen demand (BOD)</li><li>COD - Chemical oxygen demand (COD)</li><li>DMEL - Derived Minimal Effect level</li><li>DNEL - Derived-No Effect Level</li><li>EC-No. - European Community number</li><li>EC50 - Effective concentration for 50 percent of test population (median effective concentration)</li><li>EN - European Standard</li><li>IARC - International Agency for Research on Cancer</li><li>IATA - International Air Transport Association</li><li>IMDG - International Maritime Dangerous Goods</li><li>LC50 - Lethal concentration for 50 percent of test population (median lethal concentration)</li><li>LD50 - Lethal dose for 50 percent of test population (median lethal dose)</li><li>LOAEL - Lowest Observed Adverse Effect Level</li><li>NOAEC - No-Observed Adverse Effect Concentration</li><li>NOAEL - No-Observed Adverse Effect Level</li><li>NOEC - No-Observed Effect Concentration</li><li>OECD - Organisation for Economic Co-operation and Development</li><li>OEL - Occupational Exposure Limit</li><li>PBT - Persistent Bioaccumulative Toxic</li><li>PNEC - Predicted No-Effect Concentration</li><li>RID - Regulation concerning the International Carriage of Dangerous Goods by Railways</li><li>SDS - Safety Data Sheet</li><li>STP - Sewage treatment plant</li><li>ThOD - Theoretical oxygen demand (ThOD)</li><li>TLM - Median Tolerance Limit</li><li>VOC - Volatile Organic Compounds</li></ul>
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## Safety Data Sheet

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CAS-No. - Chemical Abstract Service number

N.O.S. - Not Otherwise Specified

vPvB - Very Persistent and Very Bioaccumulative

ED - Endocrine disrupting properties

Other information

: None.

Full text of H-statements:	
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H303	May be harmful if swallowed
H312	Harmful in contact with skin
H313	May be harmful in contact with skin
H319	Causes serious eye irritation
H332	Harmful if inhaled
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

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.