

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Trade name : 3% Hydrogen Peroxide WFI Sterile Solution  
Product code : 1S07

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Product for industrial use only  
Use of the substance/mixture : Surface cleaner

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Manufacturer:

STERIS Corporation  
P. O. Box 147, St. Louis, MO 63166, US  
Telephone Number for Information: 1-800-444-9009 (Customer Service-Scientific Products)  
US Emergency Telephone No.1-314-535-1395 (STERIS); 1-800-424-9300 (CHEMTREC)

Supplier:

Device Technologies Australia Pty Ltd  
1 Garigal Road,  
Belrose NSW 2085, Australia  
Telephone: 1 800 429 551  
Fax: 612 9975 5711

Device Technologies New Zealand Limited  
47 Arrenway Drive, Albany, Auckland, 0632  
New Zealand  
Tel: 0508 338 423, Fax: 649 9913 2009.

#### 1.4. Emergency telephone number

Emergency number : 1 800 429 551 (24 hours) Australia  
0508 338 423 (New Zealand)

### SECTION 2: Hazards identification

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

**Classification according to NOHSC :**

Hazardous Substance. Non-Dangerous Good.

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Eye Irrit. 2 H319

Full text of H-phrases: see section 16

**Classification according to Directive 67/548/EEC or 1999/45/EC**

Xi; R36

Full text of R-phrases: see section 16

**Adverse physicochemical, human health and environmental effects**

No additional information available

# 3% Hydrogen Peroxide WFI Sterile Solution

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H319 - Causes serious eye irritation

Precautionary statements (CLP) :

P280 - Wear protective gloves/protective clothing and eye/face 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  
P337+P313 - If eye irritation persists: Get medical advice/attention

EUH phrases

: EUH210 - Safety data sheet available on request

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

| Name                           | Product identifier                                                    | %         | Classification according to Directive 67/548/EEC |
|--------------------------------|-----------------------------------------------------------------------|-----------|--------------------------------------------------|
| Hydrogen peroxide              | (CAS No) 7722-84-1<br>(EC no) 231-765-0<br>(EC index no) 008-003-00-9 | 3         | Xn; R20/22<br>C; R35<br>R5<br>O; R8              |
| Other Non-Hazardous Components | NA                                                                    | Up to 100 | NA                                               |

| Name                           | Product identifier                                                    | %         | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                                                                           |
|--------------------------------|-----------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hydrogen peroxide              | (CAS No) 7722-84-1<br>(EC no) 231-765-0<br>(EC index no) 008-003-00-9 | 3         | Ox. Liq. 1, H271<br>Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Inhalation), H332<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>Aquatic Chronic 3, H412 |
| Other Non-Hazardous Components | NA                                                                    | Up to 100 | NA                                                                                                                                                                        |

Full text of R- and H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of 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 to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Get medical attention                                                                                                           |
| First-aid measures after skin contact | : Immediately flush skin with plenty of water for at least 15 minutes. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention                                            |
| First-aid measures after eye contact  | : In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately get medical attention |
| First-aid measures after ingestion    | : Do NOT induce vomiting. If victim completely conscious/alert. Rinse mouth. Give water or milk if the person is fully conscious. Immediately call a POISON CENTER or doctor/physician                                                                         |

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

|                                      |                                                                                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------|
| Symptoms/injuries after inhalation   | : May be irritating to the mucous membranes and to the respiratory system                       |
| Symptoms/injuries after skin contact | : Frequent or prolonged contact with skin may cause dermal irritation                           |
| Symptoms/injuries after eye contact  | : Causes serious eye irritation                                                                 |
| Symptoms/injuries after ingestion    | : May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract |

# 3% Hydrogen Peroxide WFI Sterile Solution

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- |                                |                                                                                                                                                                                                                                                                 |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media   | : Flood with plenty of water                                                                                                                                                                                                                                    |
| Unsuitable extinguishing media | : Organic compounds. As hydrogen peroxide may react with a variety of organic materials and can form explosive mixtures, shock sensitive compounds, and initiate fire. Foam is not effective as oxygen and heat continue to be generated under the foam blanket |

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

- |                                                  |                                                                                                                                                   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazardous decomposition products in case of fire | : On decomposition releases oxygen which may intensify fire. Containers may swell and burst during a fire due to internal pressure caused by heat |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|

### 5.3. Advice for firefighters

- |                                       |                                                                                                                                                                                                                                               |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions             | : Exercise caution when fighting any chemical fire                                                                                                                                                                                            |
| Protective equipment for firefighters | : Use self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection                                                                                                        |
| Other information                     | : Oxygen evolution decomposition may burst sealed containers and accelerate the burning rates of other combustible materials. Damp material in contact with paper, wood, cloth, etc. May cause spontaneous combustion of the organic material |

## SECTION 6: Accidental release measures

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

- |                  |                                                                                                        |
|------------------|--------------------------------------------------------------------------------------------------------|
| General measures | : Ensure adequate ventilation. Do not breathe fumes, vapors. Avoid contact with skin, eyes and clothes |
|------------------|--------------------------------------------------------------------------------------------------------|

#### 6.1.1. For non-emergency personnel

- |                      |                                                                                                                                      |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Wear protective gloves and eye/face protection. For further information refer to section 8 : Exposure-controls/personal protection |
| Emergency procedures | : Stop leak if safe to do so. Evacuate unnecessary personnel                                                                         |

#### 6.1.2. For emergency responders

- |                      |                                             |
|----------------------|---------------------------------------------|
| Protective equipment | : Equip cleanup crew with proper protection |
| Emergency procedures | : Ventilate area                            |

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters

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

- |                         |                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Methods for cleaning up | : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Do not absorb in sawdust, paper, cloth or other combustible absorbents. Comply with applicable local, national and international regulation |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- |                               |                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Read label before use. Provide good ventilation in process area to prevent formation of vapour. Avoid all eye and skin contact and do not breathe vapour and mist. Keep away from incompatible materials. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not wear leather soled shoes |
| Hygiene measures              | : Take care for general good hygiene and housekeeping. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated clothing should be washed thoroughly in order to eliminate a delayed potential fire hazard                                                                                                          |

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

- |                               |                                                                                                                                               |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Technical measures            | : Provide adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present                                 |
| Storage conditions            | : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use                                 |
| Incompatible materials        | : Strong alkalis. Strong oxidizing agents. Organic materials. Reducing agents. Metal salts. Alkali metals. Wood. Paper. Copper and its alloys |
| Prohibitions on mixed storage | : Do not store near oxidizing agents. Keep away from incompatible materials                                                                   |

# 3% Hydrogen Peroxide WFI Sterile Solution

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Storage area : Store in dry, cool, well-ventilated area  
Special rules on packaging : Correctly labelled

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Hydrogen peroxide (7722-84-1) |                                      |                       |
|-------------------------------|--------------------------------------|-----------------------|
| United Kingdom                | WEL TWA (mg/m <sup>3</sup> )         | 1,4 mg/m <sup>3</sup> |
| United Kingdom                | WEL TWA (ppm)                        | 1 ppm                 |
| United Kingdom                | WEL STEL (mg/m <sup>3</sup> )        | 2,8 mg/m <sup>3</sup> |
| United Kingdom                | WEL STEL (ppm)                       | 2 ppm                 |
| USA - ACGIH                   | ACGIH TWA (ppm)                      | 1 ppm                 |
| USA - IDLH                    | US IDLH (ppm)                        | 75 ppm                |
| USA - NIOSH                   | NIOSH REL (TWA) (mg/m <sup>3</sup> ) | 1,4 mg/m <sup>3</sup> |
| USA - NIOSH                   | NIOSH REL (TWA) (ppm)                | 1 ppm                 |
| USA - OSHA                    | OSHA PEL (TWA) (mg/m <sup>3</sup> )  | 1,4 mg/m <sup>3</sup> |
| USA - OSHA                    | OSHA PEL (TWA) (ppm)                 | 1 ppm                 |

### 8.2. Exposure controls

Appropriate engineering controls : Ensure adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure

Personal protective equipment : Avoid all unnecessary exposure. Personal protective equipment should be selected based upon the conditions under which this product is handled or used. The following pictograms represent the minimum requirements for personal protective equipment. Protective clothing. Gloves. Protective eyewear



Hand protection : Wear protective gloves. Use neoprene gloves. Use gloves constructed of chemical resistant materials such as heavy nitrile rubber if frequent or prolonged contact is expected

Eye protection : Wear protective eyewear

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Work in well-ventilated zones or use proper respiratory protection. Wear appropriate mask

Other information : Do not eat, drink or smoke during use

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
Appearance : Clear.  
Colour : Colourless  
Odour : Odourless  
Odour threshold : No data available  
pH : 4,3  
Relative evaporation rate (butylacetate=1) : No data available  
Melting point : No data available  
Freezing point : No data available  
Boiling point : No data available  
Flash point : No data available  
Self ignition temperature : No data available  
Decomposition temperature : No data available  
Flammability (solid, gas) : No data available  
Vapour pressure : No data available  
Relative vapour density at 20 °C : No data available

# 3% Hydrogen Peroxide WFI Sterile Solution

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

|                      |                                   |
|----------------------|-----------------------------------|
| Relative density     | : No data available               |
| Density              | : ca. 1,010 g/ml Specific Gravity |
| Solubility           | : Water: completely soluble       |
| Log Pow              | : No data available               |
| Viscosity, kinematic | : No data available               |
| Viscosity, dynamic   | : No data available               |
| Explosive properties | : No data available               |
| Oxidising properties | : Oxidizer.                       |
| Explosive limits     | : No data available               |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Thermal decomposition generates: Corrosive vapours

### 10.2. Chemical stability

Stable under normal conditions of use

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur

### 10.4. Conditions to avoid

Extremely high or low temperatures

### 10.5. Incompatible materials

Strong alkalis. Strong oxidizers. Organic materials. Reducing agent. Alkali metals. Metal salts. Readily oxidizable materials such as paper, wood, sulfur and aluminum. Copper and its alloys

### 10.6. Hazardous decomposition products

Toxic fumes may be released

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| Hydrogen peroxide (7722-84-1) |                                         |
|-------------------------------|-----------------------------------------|
| LD50 oral rat                 | 801 mg/kg                               |
| LD50 dermal rat               | 4060 mg/kg                              |
| LD50 dermal rabbit            | 2000 mg/kg                              |
| LC50 inhalation rat (mg/l)    | 2 g/m <sup>3</sup> (Exposure time: 4 h) |
| ATE (oral)                    | 801,000 mg/kg bodyweight                |
| ATE (dermal)                  | 2000,000 mg/kg bodyweight               |
| ATE (gases)                   | 4500,000 ppmV/4h                        |
| ATE (vapours)                 | 2,000 mg/l/4h                           |
| ATE (dust,mist)               | 2,000 mg/l/4h                           |

|                                                  |                                                                                      |
|--------------------------------------------------|--------------------------------------------------------------------------------------|
| Skin corrosion/irritation                        | : Not classified<br>pH: 4,3                                                          |
| Serious eye damage/irritation                    | : Causes serious eye irritation<br>pH: 4,3                                           |
| Respiratory or skin sensitisation                | : Not classified<br>Based on available data, the classification criteria are not met |
| Germ cell mutagenicity                           | : Not classified<br>Based on available data, the classification criteria are not met |
| Carcinogenicity                                  | : Not classified<br>Based on available data, the classification criteria are not met |
| Reproductive toxicity                            | : Not classified<br>Based on available data, the classification criteria are not met |
| Specific target organ toxicity (single exposure) | : Not classified<br>Based on available data, the classification criteria are not met |

# 3% Hydrogen Peroxide WFI Sterile Solution

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

|                                                    |                                                                                      |
|----------------------------------------------------|--------------------------------------------------------------------------------------|
| Specific target organ toxicity (repeated exposure) | : Not classified<br>Based on available data, the classification criteria are not met |
| Aspiration hazard                                  | : Not classified<br>Based on available data, the classification criteria are not met |

### SECTION 12: Ecological information

#### 12.1. Toxicity

| Hydrogen peroxide (7722-84-1)  |                                                                            |
|--------------------------------|----------------------------------------------------------------------------|
| LC50 fishes 1                  | 16,4 mg/l (Exposure time: 96 h - Species: Pimephales promelas)             |
| EC50 Daphnia 1                 | 7,7 mg/l (Exposure time: 24 h - Species: Daphnia magna)                    |
| EC50 other aquatic organisms 1 | 2,5 mg/l (Exposure time: 72 h - Species: Chlorella vulgaris)               |
| LC50 fish 2                    | 18 - 56 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [Static]) |
| EC50 Daphnia 2                 | 18 - 32 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])       |

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

| 6% Hydrogen Peroxide WFI Sterile Solution |                      |
|-------------------------------------------|----------------------|
| Bioaccumulative potential                 | Not established      |
| Hydrogen peroxide (7722-84-1)             |                      |
| BCF fish 1                                | (no bioaccumulation) |

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

|                                |                                                                                                                                                                                                                       |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. Empty containers should be thoroughly rinsed with large quantities of clean water. Consult the appropriate authorities about waste disposal |
| Additional information         | : Do not re-use empty containers. Container remains hazardous when empty. Continue to observe all precautions                                                                                                         |
| Ecology - waste materials      | : No additional information available                                                                                                                                                                                 |

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

No dangerous goods in sense of transport regulations

#### 14.2. UN proper shipping name

Not applicable

#### 14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

|                               |                                          |
|-------------------------------|------------------------------------------|
| Dangerous for the environment | : No                                     |
| Marine pollutant              | : No                                     |
| Other information             | : No supplementary information available |

#### 14.6. Special precautions for user

##### 14.6.1. Overland transport

No additional information available

# 3% Hydrogen Peroxide WFI Sterile Solution

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

### 14.6.2. Transport by sea

No additional information available

### 14.6.3. Air transport

No additional information available

### 14.6.4. Inland waterway transport

No additional information available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. Australia

AICS Listed or Exempt. Hazard Category : NA

#### 15.1.2. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

Seveso Information : Not available

#### 15.1.3. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Sources of Key data : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixturejs, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Other information : None

Full text of R-, H- and EUH-phrases::

|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhalation), Category 4                           |
| Acute Tox. 4 (Oral)       | Acute toxicity (oral), Category 4                                 |
| Aquatic Chronic 3         | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Eye Dam. 1                | Serious eye damage/eye irritation, Category 1                     |
| Eye Irrit. 2              | Serious eye damage/eye irritation, Category 2                     |
| Ox. Liq. 1                | Oxidising Liquids, Category 1                                     |
| Skin Corr. 1A             | Skin corrosion/irritation, Category 1A                            |
| STOT SE 3                 | Specific target organ toxicity (single exposure), Category 3      |
| H271                      | May cause fire or explosion; strong oxidiser                      |
| H302                      | Harmful if swallowed                                              |
| H314                      | Causes severe skin burns and eye damage                           |
| H318                      | Causes serious eye damage                                         |
| H319                      | Causes serious eye irritation                                     |
| H332                      | Harmful if inhaled                                                |
| H335                      | May cause respiratory irritation                                  |
| H412                      | Harmful to aquatic life with long lasting effects                 |
| R20/22                    | Harmful by inhalation and if swallowed                            |
| R35                       | Causes severe burns                                               |
| R36                       | Irritating to eyes                                                |
| R5                        | Heating may cause an explosion                                    |
| R8                        | Contact with combustible material may cause fire                  |
| C                         | Corrosive                                                         |
| O                         | Oxidising                                                         |
| Xi                        | Irritant                                                          |
| Xn                        | Harmful                                                           |

# 3% Hydrogen Peroxide WFI Sterile Solution

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

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SDS EU (REACH Annex II)

*The information on this sheet is not a specification and does not guarantee specific properties. The information is intended to provide general knowledge as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product or where instruction or recommendations are not followed.*