



# MATERIAL SAFETY DATA SHEET

Revision date: 28-Jun-2012

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

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### Material Name: Hydrogen Peroxide 3 % Liquid, Antiseptic

Trade Name: Hydrogen Peroxide Topical Solution, 3%  
Chemical Family: Mixture  
Intended Use: Pharmaceutical product used as antiseptic, disinfectant.

## 2. HAZARDS IDENTIFICATION

**Appearance:** Clear, colorless liquid

**Statement of Hazard:** Non-hazardous in accordance with international standards for workplace safety.

**Additional Hazard Information:**

**Short Term:** May cause eye irritation. May cause respiratory tract irritation. May be harmful if swallowed. (based on components) .

**EU Indication of danger:** Not classified

**Australian Hazard Classification (NOHSC):** Hazardous Substance. Non-Dangerous Goods.

**Note:** This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous

| Ingredient        | CAS Number | EU EINECS/ELINCS List | EU Classification | % |
|-------------------|------------|-----------------------|-------------------|---|
| Hydrogen Peroxide | 7722-84-1  | 231-765-0             | C;R34<br>O;R8     | 3 |

| Ingredient | CAS Number | EU EINECS/ELINCS List | EU Classification | % |
|------------|------------|-----------------------|-------------------|---|
|------------|------------|-----------------------|-------------------|---|

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|                |           |           |            |   |
|----------------|-----------|-----------|------------|---|
| Purified water | 7732-18-5 | 231-791-2 | Not Listed | * |
|----------------|-----------|-----------|------------|---|

**Additional Information:** \* Proprietary  
Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety.

For the full text of the R phrases mentioned in this Section, see Section 16

### 4. FIRST AID MEASURES

**Eye Contact:** Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention immediately.

**Skin Contact:** Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek medical attention.

**Ingestion:** Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention immediately.

**Inhalation:** Remove to fresh air and keep patient at rest. Seek medical attention immediately.

**Symptoms and Effects of Exposure:** For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information.

### 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Use carbon dioxide, dry chemical, or water spray.

**Hazardous Combustion Products:** Formation of toxic gases is possible during heating or fire.

**Fire Fighting Procedures:** During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

**Fire / Explosion Hazards:** Fine particles (such as dust and mists) may fuel fires/explosions.

### 6. ACCIDENTAL RELEASE MEASURES

**Health and Safety Precautions:** Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

**Measures for Cleaning / Collecting:** Use non-combustible absorbent material to wipe up spill and place in a sealed container for disposal. Clean spill area thoroughly.

**Measures for Environmental Protections:** Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

**Additional Consideration for Large Spills:** Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

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### 7. HANDLING AND STORAGE

**General Handling:** Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

**Storage Conditions:** Store as directed by product packaging.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to available public information for specific member state Occupational Exposure Limits.

#### Hydrogen Peroxide

|                                   |                        |
|-----------------------------------|------------------------|
| ACGIH Threshold Limit Value (TWA) | 1 ppm                  |
| Australia TWA                     | 1 ppm                  |
|                                   | 1.4 mg/m <sup>3</sup>  |
| Austria OEL - MAKs                | 1 ppm                  |
|                                   | 1.4 mg/m <sup>3</sup>  |
| Belgium OEL - TWA                 | 1 ppm                  |
|                                   | 1.4 mg/m <sup>3</sup>  |
| Bulgaria OEL - TWA                | 1.5 mg/m <sup>3</sup>  |
| Czech Republic OEL - TWA          | 1 mg/m <sup>3</sup>    |
| Denmark OEL - TWA                 | 1 ppm                  |
|                                   | 1.4 mg/m <sup>3</sup>  |
| Estonia OEL - TWA                 | 1 ppm                  |
|                                   | 1.4 mg/m <sup>3</sup>  |
| Finland OEL - TWA                 | 1 ppm                  |
|                                   | 1.4 mg/m <sup>3</sup>  |
| France OEL - TWA                  | 1 ppm                  |
|                                   | 1.5 mg/m <sup>3</sup>  |
| Germany (DFG) - MAK               | 0.5 ppm                |
|                                   | 0.71 mg/m <sup>3</sup> |
| Greece OEL - TWA                  | 1 ppm                  |
|                                   | 1.4 mg/m <sup>3</sup>  |
| Ireland OEL - TWAs                | 1 ppm                  |
|                                   | 1.5 mg/m <sup>3</sup>  |
| Lithuania OEL - TWA               | 1 ppm                  |
|                                   | 1.4 mg/m <sup>3</sup>  |
| OSHA - Final PELs - TWAs:         | 1 ppm                  |
|                                   | 1.4 mg/m <sup>3</sup>  |
| Poland OEL - TWA                  | 1.5 mg/m <sup>3</sup>  |
| Portugal OEL - TWA                | 1 ppm                  |
| Slovakia OEL - TWA                | 1 ppm                  |
|                                   | 1.4 mg/m <sup>3</sup>  |
| Slovenia OEL - TWA                | 1 ppm                  |
|                                   | 1.4 mg/m <sup>3</sup>  |
| Spain OEL - TWA                   | 1 ppm                  |
|                                   | 1.4 mg/m <sup>3</sup>  |
| Sweden OEL - TWAs                 | 1 ppm                  |
|                                   | 1.4 mg/m <sup>3</sup>  |

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|                                         |                                                                                                                                                                                                                                                                  |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Engineering Controls:</b>            | Engineering controls should be used as the primary means to control exposures. General room ventilation is adequate unless the process generates dust, mist or fumes. Keep airborne contamination levels below the exposure limits listed above in this section. |
| <b>Environmental Exposure Controls:</b> | Refer to specific Member State legislation for requirements under Community environmental legislation.                                                                                                                                                           |
| <b>Personal Protective Equipment:</b>   | Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).                                                                                                                                          |
| <b>Hands:</b>                           | Impervious gloves are recommended if skin contact with drug product is possible and for bulk processing operations.                                                                                                                                              |
| <b>Eyes:</b>                            | Wear safety glasses or goggles if eye contact is possible.                                                                                                                                                                                                       |
| <b>Skin:</b>                            | Impervious protective clothing is recommended if skin contact with drug product is possible and for bulk processing operations.                                                                                                                                  |
| <b>Respiratory protection:</b>          | If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL.                                                                                       |

### 9. PHYSICAL AND CHEMICAL PROPERTIES

|                            |                        |                           |           |
|----------------------------|------------------------|---------------------------|-----------|
| <b>Physical State:</b>     | Liquid                 | <b>Color:</b>             | Colorless |
| <b>Odor:</b>               | Ozone-like             | <b>Molecular Formula:</b> | Mixture   |
| <b>Molecular Weight:</b>   | Mixture                |                           |           |
| <b>Solvent Solubility:</b> | Soluble: Alcohol Ether |                           |           |
| <b>Solubility:</b>         | Soluble: Water         |                           |           |
| <b>Polymerization:</b>     | Will not occur         |                           |           |

### 10. STABILITY AND REACTIVITY

|                                |                                                                                                                                                                                               |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chemical Stability:</b>     | Stable under normal conditions of use.                                                                                                                                                        |
| <b>Oxidizing Properties:</b>   | Hydrogen peroxide is an oxidizer which liberates oxygen on contact with tissues. However, the oxidizing properties of the 3% solution are considerably lower than those of the pure compound. |
| <b>Conditions to Avoid:</b>    | Avoid light, heat, freezing conditions and sources of ignition.                                                                                                                               |
| <b>Incompatible Materials:</b> | Alkalies, ammonias, and their carbonates.                                                                                                                                                     |

### 11. TOXICOLOGICAL INFORMATION

|                             |                                                                                                         |
|-----------------------------|---------------------------------------------------------------------------------------------------------|
| <b>General Information:</b> | The information included in this section describes the potential hazards of the individual ingredients. |
|-----------------------------|---------------------------------------------------------------------------------------------------------|

#### Acute Toxicity: (Species, Route, End Point, Dose)

##### Hydrogen Peroxide

Rat Oral LD50 1232 mg/kg  
Rat Inhalation LC50 4h 2000 mg/m<sup>3</sup>

#### Irritation / Sensitization: (Study Type, Species, Severity)

##### Hydrogen Peroxide

Skin Irritation Rabbit Corrosive

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### 11. TOXICOLOGICAL INFORMATION

Eye Irritation Rabbit Corrosive  
Skin Sensitization Guinea Pig Negative

#### Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

##### Hydrogen Peroxide

8 Week(s) Rat Oral 1.5 % LOEL Dental

#### Reproduction & Development Toxicity: (Duration, Species, Route, Dose, End Point, Effect(s))

##### Hydrogen Peroxide

Prenatal & Postnatal Development Rat Oral 2 % NOEL Not teratogenic

#### Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

##### Hydrogen Peroxide

Bacterial Mutagenicity (Ames) *Salmonella* Positive  
Chromosome Aberration *In Vitro* Human Positive  
Chromosome Aberration Mouse Bone Marrow Negative  
Sister Chromatid Exchange *In Vitro* Human Positive

#### Carcinogen Status:

None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

##### Hydrogen Peroxide

IARC:

Group 3 (Not Classifiable)

### 12. ECOLOGICAL INFORMATION

**Environmental Overview:** The environmental characteristics of this mixture have not been fully evaluated. Releases to the environment should be avoided.

#### Aquatic Toxicity: (Species, Method, End Point, Duration, Result)

##### Hydrogen Peroxide

*Daphnia magna* (Water Flea) EC50 7.7 mg/L  
Algae LC50 0.85 mg/L

### 13. DISPOSAL CONSIDERATIONS

#### **Waste Treatment Methods:**

Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.

### 14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

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### 15. REGULATORY INFORMATION

EU Indication of danger: Not classified

#### OSHA Label:

Non-hazardous in accordance with international standards for workplace safety.

#### Canada - WHMIS: Classifications

##### WHMIS hazard class:

Class D, Division 2, Subdivision B



#### Purified water

|                                                                 |           |
|-----------------------------------------------------------------|-----------|
| Inventory - United States TSCA - Sect. 8(b)                     | Present   |
| Australia (AICS):                                               | Present   |
| REACH - Annex IV - Exemptions from the obligations of Register: | Present   |
| EU EINECS/ELINCS List                                           | 231-791-2 |

#### Hydrogen Peroxide

|                                                                    |            |
|--------------------------------------------------------------------|------------|
| CERCLA/SARA - Section 302 Extremely Hazardous TPQs                 | 1000 lb    |
| CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs | 1000 lb    |
| Inventory - United States TSCA - Sect. 8(b)                        | Present    |
| Australia (AICS):                                                  | Present    |
| Standard for the Uniform Scheduling for Drugs and Poisons:         | Schedule 5 |
| EU EINECS/ELINCS List                                              | Schedule 6 |
|                                                                    | 231-765-0  |

### 16. OTHER INFORMATION

#### Text of R phrases mentioned in Section 3

R 8 - Contact with combustible material may cause fire.

R34 - Causes burns.

**Data Sources:** Safety data sheets for individual ingredients. Publicly available toxicity information.

**Reasons for Revision:** Updated Section 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 4 - First Aid Measures.

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**Prepared by:**

Product Stewardship Hazard Communication  
Pfizer Global Environment, Health, and Safety Operations

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**End of Safety Data Sheet**