Section 1 Identification

Product Name: Peracidin® RO Disinfectant

Supplier: Angelini Pharma Inc.
8325 Wisconsin Court
Gaithersburg, MD 20877

Emergency Contact: Crisis, Lost, Fire, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 800-424-9300
Outside USA and Canada: +1-703-927-3887

Recommended Use: Disinfecting of Water Purification Systems for hemodialysis.

Section 2 Hazards Identification

Physical Hazard(s): Oxidizing liquid
Health Hazard(s): Eye Irritant - Category 2B Mild Irritant
Acute Oral Toxicity - Category 2
Environmental Hazard(s): None

Section 3 Composition/Information on Ingredients

Component CAS No. Amount Component CAS No. Amount Component CAS No. Amount
Water 7732-18-5 60-80%
Hydrogen Peroxide 7724-91-8 27%
Acetic Acid 64-19-7 6.7%
Peracetic Acid (Peroxyacetic acid) 79-21-0 4.5%

Section 4 First Aid Measures

Eye: Immediately flush eyes with plenty of water for at least 15 minutes while holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. If in eye, irrigate for several minutes. Keep container away from combustible material. Do not reuse containers. Empty containers retain product residues which can be a fire hazard.

Ingestion: Do not induce vomiting. If conscious, rinse mouth with a small amount of water and give one glass of water to dilute. Never give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.

Inhalation: Remove person to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

Most Important Symptoms: May cause severe eye irritation and burns. Causes skin irritation. Inhalation of vapor or mists may cause severe irritation of the upper respiratory tract. If swallowed, may cause intestinal irritation and discomfort. May be harmful if swallowed, inhaled or absorbed through the skin.

Section 5 Fire-fighting Measures

Suitable (and Unsuitable) Extinguishing Media: Use large quantities of water. Cool fire exposed containers and structures with water. Use large quantities of water. Cool fire exposed containers and structures with water. Cool fire exposed containers with water spray. Water spray is effective in reducing irritating vapors. Contain water used in firefighting from entering sewers or natural waterways.

Explosion Data (sensitivity to mechanical impact or static discharge): None known.

Section 6 Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures: Evacuate spill area and keep unproctected personnel away. Prevent contact with the eyes, skin and clothing. Wear appropriate protective clothing, ventilate area. Prevent contact with flammable or combustible material. Keep away from heat, flames and high temperatures. Avoid releases to the environment.

Methods and Materials for Containment and Cleaning Up: Contain and recover liquid if possible. Contact local authorities. Do not reuse containers. Empty containers retain product residues which can be hazardous. Follow all SDS precautions when handling empty containers.

Precautions for Safe Handling: Prevent contact with the eyes, skin and clothing. Do not breathe vapors or mists. Wear protective clothing and equipment. Use only with adequate exhaust ventilation. Wash thoroughly with soap and water after handling. Keep in a cool, ventilated area away from heat and combustible materials.

Conditions for Safe Storage, Including Any Incompatibilities: Store in a cool, ventilated area away from heat and incompatible materials (combustibles, reducing agents, strong bases, organic). Avoid light and heat and keep in a closed but vented container to prevent evaporation (concentration) and contamination. Do not use on wooden shelves or floors. Protect from physical damage.

Section 8 Exposure Controls/Personal Protection
**SAFETY DATA SHEET**

**Product:** Peracidin® RO Disinfectant

**Revised:** Rev A  
**Page:** 2 of 2

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**Exposure Guidelines**

**Hydrogen Peroxide**
- 1 ppm TWA ACGIH TLV
- 5 ppm TWA OSHA PEL

**Acetic Acid**
- 10 ppm TWA OSHA PEL
- 10 ppm TWA, 15 ppm STEL ACGIH TLV

**Peracetic acid**
- 0.4 ppm TWA (inhalable fraction and vapor) proposed ACGIH TLV

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**Engineering Controls:** Use with adequate local or general exhaust ventilation to maintain exposure levels below the occupational exposure limits. Respiratory Protection: In operations where the occupational exposure limits are exceeded, an approved respirator with appropriate cartridges or supplied air respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial hygiene practice. Skin Protection: The components listed as rubber are recommended to prevent skin contact.

**Eye Protection:** Chemical safety goggles with face shield recommended for handling concentrate. Safety goggles recommended for use solutions.

**Other:** Improper clothing may contact the skin and induce dermatitis. If the material is not fire resistant, it must be washed thoroughly with water after it contacts the skin. An eye wash station should be available in the immediate work area.

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**Section 9 Physical & Chemical Properties**

**Appearance and Odor:** Clear, colorless liquid with a sharp/pungent odor  
**Odor Threshold:** Not available  
**Flammability (solid, gas):** Not applicable  

**Initial Boiling Point/Range:** 20°F (33.2°C)  
**Flashpoint:** None

**Vapor Pressure:** Not available  
**Autoignition Temperature:** Not applicable

**Solubility in Water:** Soluble  
**Evaporation Rate:** Not available  
**Flammability Limits:** Not applicable

**Relative Density:** 1.12  
**pH:** 2.3 (1% solution)  
**UEL:** Not applicable

**Octanol/Water Coefficient:** Not available  
**Water Solubility:** Soluble in water  
**Decomposition Temperature:** Not available

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**Section 10 Stability & Reactivity**

**Reactivity:** Decomposition of hydrogen peroxide liberates heat and oxygen. Do not mix with anything but water. **Chemical Stability:** Stable under normal storage and handling conditions. Unstable when exposed to heat and contaminants. Strong oxidizers, react violently with many other materials, particularly flammable and combustible organic materials. **Possibility of Hazardous Reactions:** Oxidizers may react with many other materials, particularly flammable and combustible organic materials. Elevated temperatures can increase the decomposition rate of the product. Contact with organic substances may cause fire or explosion. **Exposure:** Use with adequate local or general exhaust ventilation to maintain exposure levels below the occupational exposure limits. **Conditions to Avoid:** Keep away from flames and high temperatures. Avoid light and heat and keep in a closed but vented container to prevent evaporation (concentration) and contamination. Explosive pressure rupture of the container can occur if not properly vented. **Other:** Materials (such as alcohols or terpenes) may produce self-accelerated thermal decomposition. Explosive decomposition of peracetic acid may occur if mixed with acids or alcohols.

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**Section 11 Toxicological Information**

**HEALTH HAZARDS:** Eye: Causes severe irritation with redness, tearing with possible burns. Permanent eye damage may occur. Skin: May cause moderate to severe irritation with symptoms such as redness, itching, or burning. If inhaled:** Inhalation of vapors may cause irritation of the nose, throat and upper respiratory tract. Peroxyacetic acid may be harmful if inhaled. Chronic: None known. Sensitization:** This material is not known to cause sensitization.

**Carcinogenicity:** None of the components present are listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA. Germ Cell Mutagenicity:** None of the components present are listed. **Reproductive Toxicity:** Acetic acid and peracetic acid are expected to have a low potential to bioaccumulate.

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**Section 12 Ecological Information**

**Ecotoxicity:** Hydrogen peroxide is decomposed by enzymatic action and does not accumulate in cell systems. Acetic acid and peracetic acid are expected to have a low potential to bioaccumulate. **Mobility in Soil:** Hydrogen peroxide degrades in soil to form oxygen and water.

**Other Adverse Effects:** None available.

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**Section 13 Waste Disposal Considerations**

Dispose in accordance with local and national environmental regulations.

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**Section 14 Transport Information**

**DOT Hazardous Materials Description:** Proper Shipping Name: Hydrogen Peroxide and Peroxyacetic Acid mixture, stabilized  
**UN Number:** UN1549  
**Hazard Class/Packing Group:** 5 (1), PG II  
**Labels Required:** Oxidizer, Corrosive  

**IMDG Shipping Name:** Hydrogen Peroxide and Peroxyacetic Acid mixture, stabilized  
**IMDG Hazard Class:** 5.1 (1), PG II  
**UN Number:** UN1549  
**IMDG Hazard Labels Required:** Oxidizer, Corrosive

**IATA Shipping Name:** Hydrogen Peroxide and Peroxyacetic Acid mixture, stabilized  
**IATA Hazard Class:** 5.1 (1), PG II  
**UN Number:** UN1549  
**IATA Hazard Labels Required:** Oxidizer, Corrosive

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**Section 15 Regulatory Information**

**CERCLA 103 Reportable Quantity:** This product has an RQ of 11,100 lbs. (based on the RQ of Peroxyacetic acid of 500 lbs. at 4.5%). Releases above the RQ must be reported to the National Response Corporation.

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**Section 16 Other Information**

**NPRA Rating:** Health = 3 Flammability = 0 Instability = 1 Special Hazards = 0  
**HMS Rating:** Health = 3 Flammability = 0 Physical Hazard = 2  
**SDS Date of Preparation:** 03/27/2017

**Disclaimer:** To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. Materials all present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.