PREMIER AUTOMATION
SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identity: 7.8% Hydrogen Peroxide Solution

Recommended use of the chemical and restrictions on use: None known

Manufacturer/Supplier: Premier Automation
1100 Rico Road
Monroeville, PA 15146
Telephone: (412) 373-3700

Emergency Phone: (412) 373-3700 (M-F; 9AM-5PM ET)

SDS Date of Preparation: 4/28/20

2. HAZARD(S) IDENTIFICATION

GHS Classification:

Physical:	Health:
Not Hazardous	Eye Irritation Category 2A

GHS Label Elements:
Warning!

Hazard Statements	Precautionary Statements
Causes serious eye irritation.	Wash thoroughly after handling. Wear eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount
Water	7732-18-5	92.2%
Hydrogen Peroxide	7722-84-1	7.8%

4. FIRST-AID MEASURES

Eye: Flush eyes with large quantities of water for several minutes, while holding the eyelids apart. Remove contact lenses if easy to do so. Continue rinsing. Get medical attention if irritation persists.
Skin: Flush thoroughly with water. Get medical attention if irritation or symptoms of exposure develop. Remove and launder contaminated clothing before re-use.
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 drowsy person. If irritation or discomfort occurs, get medical attention.

Inhalation: Remove victim to fresh air. If breathing is difficult or irritation persists, get medical attention.

Most Important Symptoms: May cause moderate eye irritation. May cause skin irritation with whitening of the skin. Inhalation of mists or vapors may cause mucous membrane and respiratory irritation. If swallowed, may cause intestinal irritation and discomfort.

Indication of immediate medical attention/special treatment: Immediate medical attention should not be required.

5. FIRE-FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Use large quantities of water to extinguish fire. Do not use dry chemical, carbon dioxide, halon or foams.

Specific Hazards arising From the Chemical: This product contains a small amount of hydrogen peroxide which is a strong oxidizer and may increase the flammability of combustible or flammable materials or powdered metals. If allowed to dry, solid reside may present a fire hazard. Hydrogen peroxide will not burn but decomposes to release oxygen which supports combustion. Contamination can cause rapid decomposition and a pressure rupture of the container if not properly vented.

Special Protective Equipment and Precautions for Fire-Fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire exposed containers and structures with water.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Evacuate spill area and keep unprotected personnel away. Avoid contact with the eyes, skin and clothing. Wear appropriate protective clothing. Ventilate area. Avoid contact with flammable or combustible material. Keep away from high temperatures.

Methods and Materials for Containment and Cleaning Up: Contain and recover liquid if possible or absorb with an inert, non-combustible material such as earth, dry sand or vermiculite. Do not use combustible absorbent such as sawdust. Do not return to the original container. Vent containers of recovered liquid to prevent pressurization and rupture of containers. Report releases as required by local, state and federal authorities.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with the eyes, skin and clothing. Avoid breathing mists or vapors. Wear protective clothing and equipment. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Keep in closed containers. Protect product from contamination.

Do not reuse containers. Empty containers may retain product residues which can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage, Including Any Incompatibilities: Store in a cool, well-ventilated area away from heat, direct sunlight, and incompatible materials. Do not store on wooden shelves or floors. Protect from physical damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Hydrogen Peroxide	1 ppm TWA ACGIH TLV 1 ppm TWA OSHA PEL

Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Respiratory Protection: In operations where the occupational exposure limits are exceeded, an approved 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: Impervious gloves are recommended to prevent prolonged skin contact.
Eye Protection: Chemical safety goggles should be worn where splashing is possible.
Other: Impervious coveralls, apron and boots is required to prevent skin contact and contamination of personal clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless liquid	**Vapor Pressure:** 1.97 mmHg @ 77°F (25°C) (Hydrogen Peroxide)
Odor: Pungent odor	**Vapor Density:** Not available
Odor Threshold: Not available	**Relative Density:** 8.57 lbs/gal (bulk density)
pH: Not available	**Solubility (ies):** Soluble in water
Melting/Freezing Point: 31.23°F (-0.43°C) (Hydrogen Peroxide)	**Partition Coefficient (Octanol/Water):** Not available
Initial Boiling Point/Range: 212°F (100°C) (water)	**Auto-ignition Temperature:** Not available
Flashpoint: Not applicable	**Decomposition Temperature:** Not available
Evaporation Rate: Not available	**Viscosity:** Not available
Flammability (solid, gas): Not applicable	**Flammable Limits: LEL:** Not applicable **UEL:** Not applicable

10. STABILITY AND REACTIVITY

Reactivity: Decomposition of hydrogen peroxide liberates heat and oxygen.
Chemical Stability: Stable under normal storage and handling conditions.
Possibility of Hazardous Reactions: Oxidizers may react with many other materials, particularly flammable and combustible organic materials. Contact with organic substances may cause fire or explosion. Contact with metals, metallic ions, alkalies, reducing agents and organic matter (such as alcohols or terpenes) may produce decomposition.
Conditions to Avoid: Avoid light, flames and high temperatures.
Incompatible Materials: Acids, bases, reducing agents, organic materials, alcohols, halogenated organics, rust and metals such as zinc, powdered metals, copper, nickel, brass, iron and iron salts.
Hazardous Decomposition Products: Decomposition of hydrogen peroxide liberates heat and oxygen. High temperatures and the presence of contamination increases the rate of decomposition.

11. TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:

Eye: May cause moderate eye irritation with redness and tears.
Skin: Prolonged contact may cause skin irritation with whitening of the skin.
Ingestion: Swallowing large amounts may cause gastrointestinal irritation, stomach distention (due to rapid liberation of oxygen), nausea, vomiting and diarrhea.
Inhalation: Inhalation of vapors or mists may cause irritation of the nose, throat and upper respiratory tract.
Chronic: None currently 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: This product is not expected to cause mutagenic activity.
Reproductive Toxicity: In a 90 day reproductive oral study with mice, hydrogen peroxide showed no effects in the reproductive organs in both male and female mice. It was presumed that the rapid degeneration of hydrogen peroxide on absorption and due to local effects, studies would be unlikely to reveal any specific developmental effects. This product is not expected to cause reproductive or developmental toxicity.

Numerical Measures of Toxicity:
Hydrogen Peroxide: Oral rat LD50 - >5000 mg/kg (10% Hydrogen Peroxide Solution), Skin rabbit LD50: >2000 mg/kg (no mortality) (35% Hydrogen Peroxide Solution)

12. ECOLOGICAL INFORMATION

Ecotoxicity:
Hydrogen Peroxide: 96hr LC50 Fathead minnow: 16.4 mg/L, 48hr LC50 Daphnia pulex: 2.4 mg/L, 21 days NOEC Daphnia magna: 0.63 mg/L

Persistence and Degradability: Hydrogen peroxide rapidly degrades in the environment.

Bioaccumulative Potential: Hydrogen peroxide is decomposed by enzymatic action and does not accumulate in cell systems.

Mobility in Soil: Hydrogen peroxide degrades in soil to form oxygen and water.

Other Adverse Effects: No data available.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local and national environmental regulations.

14. TRANSPORT INFORMATION

	UN Number	UN Proper Shipping Name	Hazard Class(s)	Packing Group	Environmental Hazards
DOT	None	Not Regulated	None	None	Not Applicable
IMDG	None	Not Regulated	None	None	Not Applicable
IATA/ICAO	None	Not Regulated	None	None	Not Applicable

15. REGULATORY INFORMATION

CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Hazard Category for Section 311/312: Refer to Section 2 for OSHA Hazard Classification.

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None

Section 302 Extremely Hazardous Substances (TPQ): None

Toxic Substances Control Act (TSCA): All of the components in this product are listed on the TSCA inventory.

16. OTHER INFORMATION

NFPA Rating:	Health = 2	Flammability = 0	Instability = 0
HMIS Rating:	Health = 2	Flammability = 0	Physical Hazard = 0

Date of Preparation: 4/28/20
Date of Previous Revision: N/A
Revision Summary: New SDS

NOTICE

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Premier Automation shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.