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PHOENIX PRODUCTS CO.  
55 CONTAINER DR  
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PRODUCT NAME: PEROXIDE SHOCK

MATERIAL  
SAFETY DATA  
SHEET  
2/25/02

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**SECTION I - IDENTIFICATION**

**CHEMICAL NAME & SYNONYMS:** Hydrogen peroxide (27% by weight)

**CHEMICAL FAMILY:** Inorganic Peroxide

**FORMULA:** H<sub>2</sub>O<sub>2</sub>

**TRADE NAME:** Peroxide Shock

**DESCRIPTION:** Clear, colorless liquid, slightly pungent.

**CAS NO.** 7722-84-1

**HMIS HAZARD DATA:** Health Hazard: 2                      Flammability: 0                      Reactivity: 1

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**SECTION II - PHYSICAL DATA**

**Boiling Point:** 218°F

**Freezing Point:** 22°F

**Vapor Pressure @ 86°F (mm Hg):** 26

**Specific Gravity (H<sub>2</sub>O=1):** 1.09

**% Volatile by Volume:** Near 100%

**Vapor Density:** N/A

**Solubility in water:** 100%

**Evaporation Rate:** (Butyl Acetate) > 1

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**SECTION III - FIRE AND EXPLOSION HAZARD DATA**

**Flash Point:** N/A

**Autoignition Temp:** N/A

**Flammable Limits in Air % By Volume:** N/A

**Extinguishing Media:** Use water only to fight fire where Hydrogen Peroxide is involved.

**Special Fire Fighting Procedures:** Avoid all bodily contact. Wear a self-contained breathing apparatus and protective clothing. If case of external fire, cool Hydrogen Peroxide and surrounding containers with plenty of water.

**Unusual Fire and Explosion Hazards:** Spontaneous combustion can occur if allowed to remain in contact with oxidizable materials. Drying product on clothing or combustible material may cause fire. Do not allow temperatures of storage tank to rise above 100°F. Do not heat solution to concentrations of 74% or greater. Mixtures with combustible material may be explosive.

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**SECTION IV - HEALTH HAZARD DATA**

**EFFECTS OF OVEREXPOSURE:**

**Inhalation:** May include irritation of the upper respiratory passages, nausea, headache or weakness.

**Skin:** May cause severe skin irritation.

**Eye:** May cause sever irritation with tearing or impairment of vision and possibly blindness.

**Ingestion:** May cause gastrointestinal tract irritation and abdominal pain; or red blood cell destruction.

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**SECTION V - EMERGENCY AND FIRST AID PROCEDURE**

**INHALATION:** Remove to fresh air. If breathing is difficult, administer oxygen. If breathing stops, give artificial respiration. Consult a physician, if irritation persists.

**SKIN:** Flush contaminated skin with water. If chemical penetrates clothing, immediately remove clothing and flush skin in flowing water or shower. Get prompt medical attention if irritation occurs. Wash clothing before reuse.

**EYE:** Immediately flush with water, holding eyelids apart, for at least 15 minutes. Consult a physician, if irritation occurs.

**INGESTION:** Give large amounts of water. DO NOT induce vomiting. Get immediate medical attention.

**\*Note to physician:** Direct contact with the eye is likely to cause corneal damage, especially if not washed immediately. Careful ophthalmologic evaluation is recommended and possibility of local corticosteroid therapy should be considered. Attempts at evacuating the stomach via emesis induction or gastric lavage should be avoided. In the event of severe distention of the stomach or esophagus due to gas formation, insertion of gastric tube may be required.

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**SECTION VI - TOXICOLOGY**

**Oral LD50 (Laboratory animals):** 700 mg/kg (90% H<sub>2</sub>O<sub>2</sub>) to 9200 mg/kg (70% H<sub>2</sub>O<sub>2</sub>)

**Skin Absorption LD50 (rabbit):** Practically Non-toxic

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### SECTION VII - REACTIVITY DATA

**Stability:** Unstable when heated or contaminated with heavy metals, reducing agents, rust, dirt, or organic materials. STABILITY reduced when pH is above 4.0.

**Conditions to Avoid:** N/A

**Incompatibility (materials to avoid):** Incompatible with cyanides, iron, copper and its alloys, hexavalent chromium compounds, nitric acid, potassium permanganates, reducing agents and other flammables and combustibles.

**Hazardous Decomposition:** Contamination from any source may cause rapid decomposition, oxygen release and dangerous pressures.

**Hazardous Polymerization:** Will not occur.

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### SECTION VIII - SPILL, LEAKAGE & DISPOSAL PROCEDURES

**Steps to take if material leaks or spills:** Obtain full protective equipment, including respiratory protection. Flood area with water and drain to an approved chemical sewer or wastewater treatment system, including municipal sewers if approved. May be destroyed with Sodium Metabisulfate or sodium sulfite (1.7 lb. SO<sub>2</sub> equivalent/lb. of Peroxide) after diluting to 5- 10% peroxide.

**Waste disposal method:** Must comply with all Federal, State and Local regulations. If approved, may be drained to municipal sewer or waste treatment plant. May be drained through scrap metal pit (iron, copper, etc.) to reduce peroxide concentration.

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### SECTION IX - SPECIAL PROTECTION DATA

**Ventilation:** Provide general exhaust ventilation as necessary to keep airborne concentration below exposure limits (TLV-1ppm for 8 hours). Use local ventilation at points of dust emission.

**Eye Protection:** Use safety glasses with side shields or chemical goggles. When appropriate wear face shield.

**Respiratory Protection:** For vapor or mist concentration in excess of 10 ppm a certified NIOSH self contained breathing apparatus should be used. Do Not use oxidizable sorbants.

**Protective Gloves:** Use liquid and chemical resistant gloves, such as Butyl rubber, neoprene or vinyl.

**Other Equipment:** Eye wash facility, emergency shower and jump tank should be in close proximity. If skin contact or clothing contamination is possible, use chemical resistant clothing such as footwear. launder clothing daily.

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### SECTION X - SPECIAL PRECAUTIONS DATA

**Handling and Storage:** Store in a properly vented container or in approved bulk storage facilities. Do not block vent. Store drums on flame retardant pallets. Do not store where contact with incompatible materials could occur, even with a spill. Have water source available for diluting. Keep containers out of sun and away from heat, sparks and flames. Do not add any other product to container. Never return unused product to container. Rinse empty containers thoroughly with clean water before discarding.

**Other:** None.

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### SECTION XI - REGULATORY STATUS

Sara title III section 311/312 classifies Hydrogen Peroxide as an immediate health hazard and a fire hazard. The act specifies procedures to be followed in the event of accidental spillage as well as civil penalties and fines to be levied.

Extremely hazardous substance: No CERCLA Hazardous Substance: No

SARA 313 toxic Chemicals: No TSCA inventory: No

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### SECTION XII - TRANSPORTATION INFORMATION

**Proper shipping name:** Hydrogen Peroxide, Aqueous Solutions, 5.1, UN2014, PGII.

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The information herein is given in good faith but no warranty, expressed or implied, is made.

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