1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: HP35

Product Name: Hydrogen Peroxide 35%

Company Name: Shepard Bros., Inc.
503 S. Cypress St.
La Habra, CA 90631

Phone Number: +1 (562)697-1366

Web site address: www.shepardbros.com

Emergency Contact: CHEMTREC

Emergency Phone: +1 (800)424-9300

2. HAZARDS IDENTIFICATION

Oxidizing Liquids, Category 1
Acute Toxicity: Inhalation, Category 4
Acute Toxicity: Oral, Category 4
Skin Corrosion/Irritation, Category 1A

GHS Signal Word: **Danger**

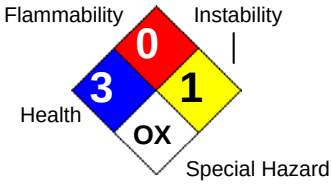
GHS Hazard Phrases:
H271 - May cause fire or explosion; strong oxidizer.
H332 - Harmful if inhaled.
H302 - Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.

GHS Precaution Phrases:
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P220 - Keep away from combustible materials.
P283 - Wear fire/flame resistant/retardant clothing.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P271 - Use only outdoors or in a well-ventilated area.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

GHS Response Phrases:
P371+380+375 - In case of major fire and large quantities: evacuate area and fight fire remotely due to the risk of explosion.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P315 - Get immediate medical advice/attention.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P315 - Get immediate medical advice/attention.
P302+352 - IF ON SKIN: Wash with plenty of soap and water. P332+313 - If skin irritation occurs, get medical advice/attention.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P315 - Get immediate medical advice/attention.
P321 - Specific treatment see Section 4 reference to supplemental first aid instruction - if immediate measures are required.

GHS Storage and Disposal Phrases:
P501 - Dispose of contents/containers in accordance with local / regional / national / international regulations.

Hazard Rating System:



Potential Health Effects (Acute and Chronic): Chronic effects and medical conditions aggravated by overexposure to this product have not been established.

Inhalation: May be harmful if inhaled. Inhalation in high concentrations may cause severe irritation of the respiratory tract with coughing and chest discomfort. Irritation may lead to chemical pneumonitis and pulmonary edema. Effects may be delayed.

Skin Contact: Moderately toxic. May cause temporary whitening or bleaching of the skin. Prolonged or repeated skin contact may cause irritation. Prolonged skin contact causes burns.

Eye Contact: Corrosive to the eyes and may cause severe damage including blindness. Causes rapid tissue damage.

Ingestion: Harmful if swallowed. May cause burns to the digestive tract. May cause perforation of the digestive tract.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
7722-84-1	Hydrogen peroxide	35.0 %

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

In Case of Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask. Get medical aid immediately.

In Case of Skin Contact: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Gently wash with plenty of soap and water. Wash contaminated clothing separately before reuse. Get medical attention if irritation persists.

In Case of Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do after 5 minutes and continue rinsing for an additional 15 minutes. Get medical attention immediately.

In Case of Ingestion: Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Note to Physician: Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance. Exposed individuals should be monitored for 72 hours after exposure for the onset of delayed respiratory symptoms.

5. FIRE FIGHTING MEASURES

Flash Pt:	NA
Explosive Limits:	LEL: No data. UEL: No data.
Autoignition Pt:	NA
Suitable Extinguishing Media:	Water spray or fog.
Unsuitable Extinguishing Media:	Do NOT use dry chemicals, CO2, Halon or foams.
Fire Fighting Instructions:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved (or equivalent), and full protective gear. Containers can build up pressure if exposed to heat (fire). Use water spray to keep fire-exposed containers cool. Oxidizing materials. Explosive when mixed with combustible materials.
Flammable Properties and Hazards:	Material decomposes if contaminated, causing fire and possible explosions. Oxygen can be liberated at temperatures above ambient.

6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures:	Use proper personal protective equipment as indicated in Section 8.
Environmental Precautions:	Do not let product enter drains, sewers, watersheds or water systems.
Steps To Be Taken In Case Material Is Released Or Spilled:	Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Provide ventilation. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Flush area with flooding quantities of water. Combustible materials exposed to hydrogen peroxide should be rinsed immediately with large amounts of water to ensure that all the hydrogen peroxide is removed. Do NOT return material to the original container.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling:	Use as directed. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Do NOT cut, drill, grind, or weld on or near containers storing this material. Do not ship on wooden pallets.
Precautions To Be Taken in Storing:	Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from heat, sparks and flame. Store away from acids, alkalis, reducing agents, organic materials, combustibles, and metallic oxides. Do not store in direct sunlight. Store in a tightly closed container. Keep container closed when not in use. Protect containers against damage. Avoid storage on wood floors.
Other Precautions:	Handle in accordance with good industrial hygiene and safety practices. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7722-84-1	Hydrogen peroxide	PEL: 1.4 mg/m3	TLV: 1.4 mg/m3	No data.

Respiratory Equipment (Specify Type):	Avoid breathing vapors and mists. If ventilation is not sufficient to effectively prevent buildup of vapors or mists and the exposure limit is exceeded, use a NIOSH/MSHA approved respirator. During an emergency or when the concentration levels are unknown, wear a self-contained breathing apparatus (SCBA) in the pressure demand mode or a supplied-air respirator. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.
Eye Protection:	Chemical splash goggles or full-face shield.
Protective Gloves:	Wear appropriate protective gloves to prevent skin exposure. Rubber or neoprene gloves.
Other Protective Clothing:	Wear appropriate protective clothing to prevent skin exposure. Chemical resistant apron. Rubber or neoprene boots. Do NOT wear any form of boot or overboots made of nylon or nylon blends.
Engineering Controls (Ventilation etc.):	Ensure adequate ventilation. Local exhaust is suggested for use in enclosed or confined areas. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Work/Hygienic/Maintenance Practices:	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	[ ] Gas [X] Liquid [ ] Solid
Appearance and Odor:	Appearance: colorless. Liquid. Odor: pungent odor.
Melting Point:	~ -27.0 F (-32.8 C)
Boiling Point:	~ 226 F (108 C)
Decomposition Temperature:	NA
Autoignition Pt:	NA
Flash Pt:	NA
Explosive Limits:	LEL: No data. UEL: No data.
Specific Gravity (Water = 1):	NA
Density:	~ 1.13 G/CM3
Bulk density:	NA
Vapor Pressure (vs. Air or mm Hg):	24 MM_HG at 68.0 F (20.0 C)
Vapor Density (vs. Air = 1):	NA
Evaporation Rate:	NA
Solubility in Water:	Complete
Saturated Vapor Concentration:	NA
Viscosity:	NA
pH:	1 - 4
Percent Volatile:	NA
VOC / Volume:	NA

Particle Size: NA

Heat Value: NA

Corrosion Rate: NA

10. STABILITY AND REACTIVITY

Reactivity: Material decomposes if contaminated, causing fire and possible explosions. Oxygen can be liberated at temperatures above ambient.

Stability: Unstable [ ] Stable [X]

Conditions To Avoid - Instability: High temperatures, ignition source, Incompatible materials.

Incompatibility - Materials To Avoid: Organic materials, Reducing agents, Metallic oxides, Bases, Dusts, Metals. combustible materials.

Hazardous Decomposition Or Byproducts: Material decomposes if contaminated, causing fire and possible explosions. Oxygen can be liberated at temperatures above ambient.

Possibility of Hazardous Reactions: Will occur [ ] Will not occur [X]

Conditions To Avoid - Hazardous Reactions: No data available.

11. TOXICOLOGICAL INFORMATION

Toxicological Information:
Epidemiology: No information available.
Teratogenicity: No information available.
Reproductive Effects: No information available.
Mutagenicity: No information available.
Neurotoxicity: No information available.

Other Studies: CAS# 7722-84-1:
Acute toxicity, LC50, Inhalation, Rat, 2.0 gm/m3, 4 H.
Acute toxicity, LD50, Oral, Rat, 1518 mg/kg.

Irritation or Corrosion: See actual entry in RTECS for complete information.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

12. ECOLOGICAL INFORMATION

General Ecological Information:
Environmental: No information available.
Physical: No information available.

Results of PBT and vPvB assessment:
Other Studies: CAS# 7722-84-1:
LC50, Bluegill (Lepomis macrochirus), 26.7 ppm, 96H, juvenile, Mortality
LC50, Rainbow trout (Oncorhynchus mykiss), 207 ppm, 2H, fry, Mortality.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dilute a spill with a large amount of water and hold in a pool until the peroxide decomposes, followed by discharge into a suitable treatment system. Peroxide may be neutralized with either sodium metabisulfite (Na2S2O5) or sodium sulfite (Na2SO3) after diluting to 5 - 10% peroxide.
Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
Observe all federal, state, and local environmental regulations.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Hydrogen peroxide, aqueous solutions [with not less than 20 percent but not more than 40 percent hydrogen peroxide (stabilized as necessary)]

DOT Hazard Class: 5.1 OXIDIZER

UN/NA Number: UN2014 **Packing Group:** II

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7722-84-1	Hydrogen peroxide	Yes 1000 LB	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
7722-84-1	Hydrogen peroxide	TSCA: Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8

16. OTHER INFORMATION

Revision Date: 11/26/2013

Additional Information About This Product: No data available.

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