

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code:	BGOXY	
Product Name:	Brewguard™ Oxy	
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	+1 (800)424-9300

2. HAZARDS IDENTIFICATION

Oxidizing Liquids, Category 2
Skin Corrosion/Irritation, Category 1A
Serious Eye Damage/Eye Irritation, Category 1



GHS Signal Word:	Danger
GHS Hazard Phrases:	H272 - May intensify fire; oxidizer. H314 - Causes severe skin burns and eye damage. H318 - Causes serious eye damage.
GHS Precautionary Phrases:	P280 - Wear protective gloves/protective clothing/eye protection/face protection. P260 - Do not breathe mist/vapors/spray. P264 - Wash hands thoroughly after handling. P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P220 - Keep away from combustible materials. P221 - Take any precaution to avoid mixing with combustibles.
GHS Response Phrases:	P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P363 - Wash contaminated clothing before reuse. P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor/physician. P321 - Specific treatment see Section 4 reference to supplemental first aid instruction - if immediate measures are required.
GHS Storage and Disposal Phrases:	P405 - Store locked up. P501 - Dispose of contents and containers in accordance with local, regional, national, and international regulations.
Inhalation:	May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.
Skin Contact:	Causes skin irritation and possible burns. May cause severe burns to the skin.
Eye Contact:	Causes severe eye irritation. May cause pain, redness, and tearing. May cause severe eye damage.
Ingestion:	Harmful if swallowed. May cause burns to the mouth, esophagus, and stomach resulting in pain and vomiting.



3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
7722-84-1	Hydrogen peroxide	21.0 %
2809-21-4	1-Hydroxyethylidene-1,1-diphosphonic acid	1.0 -4.0 %

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:** Take off contaminated clothing and shoes immediately. 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. If allowed to dry on clothing, evaporation leads to concentration and increased possibility of ignition. Wash contaminated clothing separately before reuse. Get medical aid immediately.
- 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. Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical aid 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 is a suitable extinguishing media.
- 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 cool fire-exposed containers. Water spray will also reduce fume and irritant gases. Will generate additional heat when placed in contact with reducing agents or combustibles. Increases the flammability of readily oxidizable, combustible, and organic materials.
- Flammable Properties and Hazards:** Contamination or heat could initiate decomposition. High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, Thermal decomposition may produce toxic fumes of phosphorus oxides and/or phosphine.
- Hazardous Combustion Products:** No data available.



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 mix with chlorinated product.

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 ppm	TLV: 1 ppm	No data.
2809-21-4	1-Hydroxyethylidene-1,1-diphosphonic acid	No data.	No data.	No data.

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
7722-84-1	Hydrogen peroxide	NIOSH	TWA: 1.4 mg/m3 (1 ppm)	

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.

Eye Protection: Chemical splash goggles or full-face shield.

Protective Gloves: Chemical resistant gloves.

Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure. Chemical resistant apron.

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. Wash hands before breaks and at the end of workday. Wash thoroughly after handling.

Environmental Exposure Controls: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	[] Gas	[X] Liquid	[] Solid
Appearance and Odor:	No data available.		
pH:	NA		
Melting Point:	NA		
Boiling Point:	NA		
Flash Pt:	NA		
Evaporation Rate:	NA		
Flammability (solid, gas):	No data available.		
Explosive Limits:	LEL: No data.	UEL: No data.	
Vapor Pressure (vs. Air or mm Hg):	NA		
Vapor Density (vs. Air = 1):	NA		
Specific Gravity (Water = 1):	NA		
Density:	NA		
Bulk density:	NA		
Solubility in Water:	NA		
Saturated Vapor Concentration:	NA		
Octanol/Water Partition Coefficient:	No data.		
Percent Volatile:	NA		
VOC / Volume:	NA		
HAP / Volume:	NA		
Autoignition Pt:	NA		
Decomposition Temperature:	NA		
Viscosity:	NA		
Particle Size:	NA		
Heat Value:	NA		
Corrosion Rate:	NA		

10. STABILITY AND REACTIVITY

Reactivity:	Contamination or heat could initiate decomposition.
Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	High temperatures, Ignition sources, Incompatible materials.
Incompatibility - Materials To Avoid:	Organic materials, Zinc, Copper, dirt, nickel, Alkalis, Brass, rust, Iron and iron salts. Aluminum, Zinc, Tin and their alloys. Contamination.
Hazardous Decomposition or Byproducts:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, Thermal decomposition may produce toxic fumes of phosphorus oxides and/or phosphine.
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/m ³ , 4 H. Acute toxicity, LD50, Oral, Rat, 1518 mg/kg. Other Studies: CAS# 2809-21-4: Acute toxicity, LD50, Oral, Mouse, 1800 mg/kg.
Irritation or Corrosion:	Causes severe eye irritation. Causes skin irritation and possible burns.
Symptoms related to Toxicological Characteristics:	Causes severe eye irritation. May cause pain, redness, and tearing. Exposed individuals should be monitored for 72 hours after exposure for the onset of delayed respiratory symptoms.
Sensitization:	No data available.
Chronic Toxicological Effects:	May cause severe eye damage. May cause severe burns to the skin.
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No

12. ECOLOGICAL INFORMATION

General Ecological Information:	Environmental: No information available. Physical: No information available. Other Studies: CAS# 7722-84-1: LC50, Bluegill (<i>Lepomis macrochirus</i>), 26.7 ppm, 96H, juvenile LC50, Rainbow trout (<i>Oncorhynchus mykiss</i>), 207 ppm, 2H, fry.
Results of PBT and vPvB assessment:	No data available.
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.
Other adverse effects:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:	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.
-------------------------------	---

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Organic peroxide type F, liquid.
DOT Hazard Class: 5.2 ORGANIC PEROXIDE
UN/NA Number: UN3109 **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
2809-21-4	1-Hydroxyethylidene-1,1-diphosphonic acid	No	No	No

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Explosive	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Acute toxicity (any route of exposure)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Flammable (gases, aerosols, liquid, or solid)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Skin Corrosion or Irritation
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Oxidizer (liquid, solid or gas)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Serious eye damage or eye irritation
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Self-reactive	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Respiratory or Skin Sensitization
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pyrophoric (liquid or solid)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Germ cell mutagenicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pyrophoric gas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Carcinogenicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Self-heating	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Reproductive toxicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Organic peroxide	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Specific target organ toxicity (single or repeated exposure)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Corrosive to metal	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Aspiration Hazard
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Gas under pressure (compressed gas)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Simple Asphyxiant
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No In contact with water emits flammable gas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Health) Hazard Not Otherwise Classified (HNOC)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Combustible Dust	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Physical) Hazard Not Otherwise Classified (HNOC)	

CAS #	Hazardous Components (Chemical Name)
7722-84-1	Hydrogen peroxide
2809-21-4	1-Hydroxyethylidene-1,1-diphosphonic acid

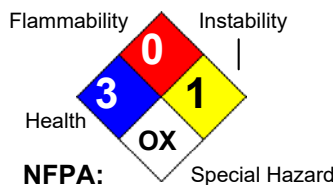
Other US EPA or State Lists

TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8
TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No

16. OTHER INFORMATION

Revision Date: 11/20/2020
Preparer Name: Crystal Maira

Hazard Rating System:



Additional Information About No data available.

This Product:

Company Policy or Disclaimer:

Information presented herein is believed to be accurate and reliable to the best of our knowledge. However, we make no warranty or merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process. Users should make their own investigations to determine the suitability of the information for their particular purposes.