



# SAFETY DATA SHEET ( SDS )



Date Revised : 01 / 15

Supersedes : 01 / 13

**“ ECO LIQUID  
OXYGEN BLEACH ”**

**NON - CHLORINE  
BLEACHING ALTERNATIVE**

## SECTION 1 : IDENTIFICATION OF SUBSTANCE / COMPANY

PRODUCT NAME / IDENTIFIER :	“ECO Liquid Oxygen Bleach”
PRIMARY APPLICATION / RECOMMENDED USAGE :	An Environmentally Safer Alternative to Chlorine Bleach
DISTRIBUTED EXCLUSIVELY BY :	HEALTHY CLEAN BUILDINGS
	4 Wilmington Drive
	Melville, New York 11747
INFORMATION TELEPHONE :	1-631-643-1882
EMERGENCY TELEPHONE ( 24 hour ) :	1-516-377-7772
USAGE RESTRICTIONS :	Refer to Product Label

## SECTION 2 : HAZARD(S) IDENTIFICATION

This product is listed because in its pure bulk form, it is a SARA 302 substance . This Section 2 refers to any hazards associated with the finished product .

### Classification of the substance or mixture ( GHS-US )

Oxidizing Liquids1	H271
Skin Irritation 2	H315
Skin Sensitivity 1	H317
Eye Damage 1	H318

### Label Elements

Hazard Pictograms  
( GHS-US Labeling )



Skin & Eye Irritant

### Signal Word :

### Warning

### Hazard Statements :

H315 – Causes Skin Irritation in concentration . Follow label directions for proper water dilutions .  
H317 – May cause an allergic skin reaction in concentration . Follow label directions for proper water dilutions .  
H318 – May cause serious eye damage in concentration . Follow label directions for proper water dilutions .

### Precautionary Statements

P101 : If medical advice is required, have product container or label available .  
P102 Keep Out of Reach of Children  
P103 . Read Label Before Use .  
P261 – Avoid breathing dust/mist/spray in concentration . Follow label directions for proper water dilutions .  
P264 - Wash hands and forearms thoroughly after handling  
P280 – Wear Protective gloves/eye protection  
P302 + P352 – If on skin, wash with plenty of soap and water  
P305+P351+P338 – If in eyes, rinse cautiously with water for several minutes .  
If easy to do, remove contact lenses .Continue rinsing  
P337+P313 – If eye irritation persists , get medical advice/attention .



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### Precautionary Statements ( continued )

P310 – Immediately call a poison center / doctor .  
P321 – Specific treatment ( see First Aid Measures on Product Label / SDS )  
P332+P313 – If skin irritation occurs, get medical advice / attention  
P333+P313 – If skin irritation or rash occurs, get medical advice / attention  
P362+P364 – Take off contaminated / soiled clothes and wash before reuse  
P501 – Dispose of contents / container in accordance with local / regional/ national / int'l regulations

Other Hazards : None

Ingredients with Unknown Acute Toxicity : None

### SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS :

**General Information :** “ECO” Liquid Oxygen Bleach ( Non-Chlorine ) is an effective 8 % ( approx. ) Stabilized Hydrogen Peroxide Solution which bleaches and restores most surfaces without the harmful effects of chlorine .

Chemical characterization : Mixture

Hazardous Components :

<u>Ingredient :</u>	<u>CAS Number :</u>	<u>Percent :</u>	<u>OSHA / PEL :</u>	<u>ACGIH / TLV :</u>
Hydrogen Peroxide	7722-84-1	< 8%	1.4 mg/m3	1.4 mg/m3

NOTE : Approximate percentages – Exact percentages and identities are withheld as trade secrets

### SECTION 4 : FIRST AID MEASURES

#### Description of Necessary Measures :

**General Advice :** Consult a physician . Show this Safety (SDS) Sheet to the doctor in attendance . Remove individual out of affected area .

**After Inhalation :** Supply fresh air . If not breathing, give artificial respiration . Consult a doctor if adverse conditions persist .

**After Skin Contact :** Wash with plenty of soap and water . Re-lubricate skin by applying a skin moisturizer . Launder soiled , contaminated clothing before reuse . If skin irritation or rash persists, seek medical attention .

**After Eye Contact :** Rinse cautiously with warm running water for 15 minutes . If easy to do, remove contact lenses . Continue water rinsing . If eye irritation persists, seek medical attention .

**After Ingestion :** Rinse mouth . DO NOT induce vomiting . If patient is fully conscious, continue to rinse mouth with water and drink 2-3 glasses of water . If adverse conditions persist , seek medical attention . Never give anything by mouth if victim is unconscious, rapidly losing consciousness, or is convulsing .

### SECTION 5 : FIRE FIGHTING MEASURES :

**Suitable Extinguishing Media :** Water Fog, Alcohol –resistant Foam, Dry Chemical

**Unsuitable Extinguishing Media :** None

**Flammability :** Not Flammable ( Aqueous Solution )

**Flashpoint ( °F, °C , PMCC ) :** <212°F

**Special Protective Equipment for Fire Fighters :** Wear self-contained Respiratory Protective Device . Wear fully protective suit .



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**SECTION 6 : ACCIDENTAL RELEASE MEASURES**

Evacuate unnecessary personnel . Ventilate area with fresh air . In case of chemical fumes, use a respiratory protective device . Avoid breathing vapors , mist, or gas. Exercise caution from slipping on leaked / spilled product .

**Leak and Spill Procedure :** Collect excess product for disposal . Clean up remaining product from spill with appropriate liquid-binding absorbent ( ie : sand, diatomite , universal binders , sawdust ) . For large spills , provide diking or other containment measures to prevent spreading . If diked product can be pumped, store recovered product in compatible drums for recovery or disposal . Clean area with warm water several times to prevent any future slip hazards . Observe personal protective equipment recommendations .

**Environmental Precautions :** Make best efforts to prevent entry into sewers and public waters. Take extreme measures to prevent large quantities of undiluted concentrated product to reach ground water, water course, or sewage system .

**SECTION 7 : HANDLING & STORAGE REQUIREMENTS**

**KEEP OUT OF REACH OF CHILDREN**

**Precautions for Safe Handling :** Read product literature, label , and SDS before use . Use product strictly according to label directions .

Wash hands and other exposed areas with soap and water before eating, drinking, smoking; or when leaving work . Provide adequate ventilation in storage area to prevent formation of fumes . Avoid personal contamination, especially inhalation , after a spill .

**Hygiene Measures :** Wash hands and forearms thoroughly after handling . Launder soiled, contaminated clothing before re-use .

**Safe Storage Conditions :** Keep in original container in a cool , well-ventilated place away from open flames . Keep container closed when not in use.

**Incompatible Products :** Caustic Alkalis or Caustic Acids

**Incompatible Circumstances :** Sources of Ignition ( ie ; open flames ) . Direct sunlight .

**SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Workplace Control Parameters :** Hydrogen Peroxide, Concentrate=35%, Aqueous Solution

Component	CAS #	Value	Control Parameters	Basis
	7722-84-1	TWA	1.000000 ppm	USA, ACGIH Threshold Limit Values ( TLV )
		Remarks : Upper Respiratory Tract Irritation ; Eye Irritation ; Skin Irritation ; Confirmed animal carcinogen with unknown relevance to humans .		
		TWA	1,000000 ppm 1.400000 mg / m3	USA NIOSH Recommended Exposure Limits
			1,000000 ppm 1.400000 mg / m3	USA OSHA Occupational Exposure Limits – Table Z1 Limits for Air Contaminants
		The value in mg/m3 is approximate		



## “ ECO LIQUID OXYGEN BLEACH ”

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### EXPOSURE CONTROLS / PERSONAL PROTECTION ( continued )

**Engineering Controls :** Adequate general ventilation

**Personal Protective Equipment :** Avoid unnecessary exposure

**Respiratory Protection :** May not be required under normal conditions of use . Wear appropriate mask or respiratory protective device when misted or fogged . For unplanned spills, respiratory protection may be advisable .

**Skin / Hand Protection :** Wear chemical –resistant gloves ( ie : rubber, nitrile rubber, neoprene ) . For skin and body protection , usually no protective clothing is required under normal ,stable conditions . Under unusual, unstable conditions , wear appropriate protective clothing .

**Eye Protection :** Wear chemical goggles, safety glasses , or full face shield .

**Other Information :** DO NOT eat, drink, or smoke during use .

### SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

**Physical State :** Clear Liquid

**pH ( as is ) :** 6.0-6.5

**Freezing Point :** < 32 °F, < 0 °C

**Solubility in Water :** 100 % Miscible

**Explosive Limits :** Undetermined

**Partition coefficient :** ( n-octanol/water ) Undetermined

**Color :** Colorless

**Relative Evaporation Rate ( ethyl ether =1 ) :** > 1

**Boiling Point :** >220 ° C

**Specific Gravity ( Water = 1 ) :** 1.01 @ 22° C

**Vapor Pressure :** Undetermined

**Auto-ignition Temperature :** Undetermined

**Odor :** Relatively Odorless

**Melting Point :** Undetermined

**Flashpoint :** ≥ 200 ° F

**Flammability :** NA

**Relative Density :** 1.110 g/cm<sup>3</sup>

**Decomposition Temp. :** Undetermined

### SECTION 10 : STABILITY AND REACTIVITY

**Reactivity :** No Additional Information Available

**Chemical stability :** Stable under Normal Cond ition s

**Possibility of Hazardous Reactions :** Reacts with strong acids . Reacts with strong oxidizing agens . Reacts with reducing agents .

**Conditions to Avoid :** Direct Sunlight . Extremely High or Low Temperatures

**Incompatible Materials :** Strong Acids / Strong Alkalis / Strong Oxidizing Agents / Zinc / Powdered Metals / Iron / Iron Salts / Copper / Nickle / Brass

**Hazardous Decomposition By-products :** Carbon Monoxide Fumes / Carbon Dioxide **Fumes Hazardous Polymerization :** NA

### SECTION 11 : TOXICOLOGICAL INFORMATION

**Information on Toxicological Effects :**

**Likely Routes of Exposure :**

**Inhalation :** No Irritant Effect

**Skin Contact :** No Irritant Effect . Sensitization possible through skin contact .

**Eye Contact :** Irritating Effect

**Ingestion :** None Under Normal Use

**Symptoms Related to the Physical, Chemical, and Toxilogical Characteristics :** No Further Information

**Available Delayed and Immediate Effects ( Chronic Effects from Short and Long Term Exposure ) :** Danger through prolong , extended skin absorption . Toxic and / or Corrosive Effects may be delayed up to 48 hours after use .

**Measures of Toxicity :** LD50 - >225 mg / kg and <1200 mg /kg ( rat ) @ 50 % H2O2

**Teratogenicity, Mutagenicity :** No Data Available

**Reproductive Toxicity :** Not Classified

**Specific Target Organ Toxicity ( Single Exposure ) :** Not Classified

**Specific Target Organ Toxicity ( Repeated Exposure ) :** Not Classified

**Carcinogenic Categories :**

**NTP ( National Toxicity Program ) :** None of the Ingredients are listed



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**TOXICOLOGICAL INFORMATION ( continued ) :**

IARC ( International Agency for Research on Cancer ) : 7722-84-1 Hydrogen Peroxide  
OSHA ( Occupational Safety and Health Administration ) : None of the Ingredients are listed  
AIRC Group = 3 – Not Classified  
Acute Toxicity : : Not Classified  
Aspiration Hazard : Not Classified  
Potential Adverse Human Health Effects & Symptoms : Based on Available Data, the Classification Criteria are not met  
Symptoms / Injuries After Inhalation : May Cause Allergic Skin Reaction  
Symptoms / Injuries After Skin Contact : After Prolonged Exposure, Causes Serious Skin Irritation  
Symptoms / Injuries after Eye Contact : After Prolonged Exposure, Causes Serious Eye Damage

**SECTION 12 : ECOLOGICAL INFORMATION**

**ECOTOXICITY :**

**Aquatic Toxicity :**

**Hydrogen Peroxide , Concentrate=35% Aqueous Solution ( 7722-84-1 ) :**

LC50 Fish 1 .....16.4 mg/l ( 96 h; Pimephales Promelas )  
EC50 Daphnia 1 ..... 2.4 mg/l ( 48 h; Daphnia Pulex ; Solution >= 50% )  
EC50 Other Aquatic Organisms 1 .....2.5 mg/l ( 72 h, Chlorella Vulgaris )  
LC50 Fish 2 .....37.4 mg/l ( 96 h; Ictalurus Punctatus )  
EC50 Daphnia 2 ..... 7.7 mg/l ( 24 h; Daphnia Magna ; Solution >= 50% )  
Threshold Limit Algae 1 .....0.1 mg/l ( 72 h, Chlorella Vulgaris )

**“ECO” Liquid Oxygen Bleach ( Non-Chlorine )**

Persistence and Degradability .....Not Established

**PERSISTENCE AND DEGRADABILITY :**

**Hydrogen Peroxide , Concentrate=35% Aqueous Solution ( 7722-84-1 ) :**

Persistence and Degradability .....Biodegradability : Not Applicable . No test data on mobility of the components available.  
.....Photolysis in air .  
Biochemical Oxygen Demand ( BOD ) .....Not Applicable  
Chemical Oxygen Demand ( COD ) .....Not Applicable  
ThOD .....Not Applicable  
BOD ( % of ThOD ) .....Not Applicable

**BIOACCUMULATIVE POTENTIAL :**

**Hydrogen Peroxide , Concentrate=35% Aqueous Solution ( 7722-84-1 )**

Log Pow .....-1.36  
Bioaccumulative Potential .....Bioaccumulation : Not Applicable

**TERRESTRIAL TOXICITY :** .....No Additional Information Available

**MOBILITY IN SOIL:** .....No Additional Information Available

**OTHER ADVERSE EFFECTS :**

Effect on Ozone Layer .....No Additional Information Available  
Effect on Global Warming : .....No Additional Information Available



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**SECTION 13 : DISPOSAL CONSIDERATIONS**

**Waste Disposal Recommendations** : Dispose in safe manner in accordance with local / state/federal regulations. Dispose of contents / container in accordance with local/regional/national/international regulations . May be burned in a chemical incinerator with an afterburner and scrubber after consulting with the waste disposal facility operator and the pertinent authorities while adhering to the necessary regulations .

**Ecology – Waste Materials** : Avoid release into environment .

**Recommended Cleansing Agents** : Water Only

**SECTION 14 : TRANSPORT INFORMATION**

**UN Number ( DOT, IMDG, IATA )** ..... UN 2014  
**UN Proper Shipping Name ( DOT, IMDG, IATA )** ..... Hydrogen Peroxide Aqueous Solution  
**Transport Hazard Class(es) ( DOT, IMDG, IATA )** ..... 5.1-8 Oxidizer / Corrosive ( @ 40% ) / Unknown ( @ 8 % )  
**Packing Group ( DOT, IMDG, IATA )** ..... II ( @ 40% ) / Unknown ( @ 8 % )  
**Environmental Hazards : Marine Pollutant ( Yes/No )** ..... NO  
**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**... Not Applicable  
**Shipping Restrictions : Air forbidden for concentration greater than 40 %**  
For concentrations under 40 % : Passenger Aircraft – 1 L Max. pkg. / Cargo Aircraft Only – 5 L Max. pkg.

**SECTION 15 : REGULATORY INFORMATION**

Safety, Health, and Environmental Regulations/Legislation specific for the substance or mixture .

**UNITED STATES ( USA )**

**SARAH Section 302 Components**

The following components are subject to reporting levels established by SARA Title III, Section 302 :

Hydrogen Peroxide ( CAS# 7722-84-1 ) -- Revision Date : 1993-04-24

**SARAH Section 313 Components** This material does not contain any chemical components with known CAS Numbers that exceed the threshold (De Minimis ) reporting levels established by SARA Title III, Section 313 .

**TSCA ( Toxic Substances Control Act )**.....All Ingredients are Listed

**Massachusetts Right-to-Know Components** : Hydrogen Peroxide ( CAS# 7722-84-1 ) -- Revision Date : 1993-04-24

**Pennsylvania Right-to-Know Components** : Water ( CAS# 7732-18-5 ) // Hydrogen Peroxide ( CAS# 7722-84-1 ) -- Revision Date : 1993-04-24

**Massachusetts Right-to-Know Components** : Water ( CAS# 7732-18-5 ) // Hydrogen Peroxide ( CAS# 7722-84-1 ) -- Revision Date : 1993-04-24

**Proposition 65 ( California )** : This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm .

**Chemicals Known to Cause Cancer** .....Ingredients are Not Listed

**Chemicals Known to Cause Reproductive Toxicity for Females** ..... Ingredients are Not Listed

**Chemicals Known to Cause Reproductive Toxicity for Males** ..... Ingredients are Not Listed

**Chemicals Known to Cause Developmental Toxicity** .....Ingredients are Not Listed

**Carcinogenic Categories :**

**EPA ( Environmental Protection Agency )** .....Ingredients are Not Listed

**International Regulations :**

**CANADA , EU-REGULATIONS** .....No Additional Information Available



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**SECTION 16 : OTHER INFORMATION**

<b>HMIS Rating</b>		<b>GHS classification ratings order of severity differ from NFPA and HMIS</b>	
<b>HEALTH</b>	<b>1</b>	HMIS/NFPA Hazard Ratings	GHS Hazard Categories
<b>FLAMMABILITY</b>	<b>0</b>	0= Minimal Hazard	Cat 1 ~ Severe Hazard
<b>PHYSICAL HAZARD</b>	<b>0</b>	1= Slight Hazard	Cat 2 ~ Serious Hazard
<b>PERSONAL PROTECTION</b>	<b>0</b>	2= Moderate Hazard	Cat 3 ~ Moderate Hazard
		3= Serious Hazard	Cat 4 ~ Slight Hazard
		4= Severe Hazard	Cat 5 ~ Minimal Hazard

**DISCLAIMER :** This document is intended to provide a brief summary of our present knowledge and guidance regarding the use of this material . The information set forth herein has been compiled from sources to be dependable and is believed to be accurate as of the date of issuance . This information is offered in good faith by HEALTHY CLEAN BUILDINGS and no warranty, expressed or implied, is made . The user assumes all liability for any damage or injury resulting from misuse, from any failure to adhere to recommended practices according to product label ( and such ), or from any hazards inherent in the nature of the product . This document shall not constitute a guarantee for any specific product features and shall not establish a legally valid contracted relationship.

Footnotes : CALC-Calculated; COR-Corrosive; CS-Cancer Suspect Agent; EST-Estimated; HMIS-Hazardous Material Identification System; NA-Not Applicable; ND-No Data ; NE – Data Not Established; OX- Oxidizer; PEL-Permissible Exposure Limit; PPI-Personal Protection Index ; STEL-Short Time Exposure Limit; TLV-Threshold Limit Value; TWA-Time Weighted Average