# Safety Data Sheet

**Issue Date:** 01-Oct-2017 **Version 1**

## 1. IDENTIFICATION

**Product Identifier**

**Product Name** GreenOx Pro Cleaner

**Other means of identification**

**SDS #** POP46102017

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Cleaner & Stain Remover.

**Details of the supplier of the safety data sheet**

**Manufacturer Address**
Greenflow Distribution Inc.
1038 Legrand Blvd
Charleston, SC 29492

**Emergency Telephone Number**

**Company Phone Number** (866)-308-2734
**Emergency Telephone (24 hr.)** INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance Clear** colorless liquid **Physical State Liquid** **Odor: Mild**

**Classification**

| | |
|---|---|
| Serious eye damage/eye irritation | Category 1 |
| Oxidizing liquids | Category 2 |
| Acute toxicity, oral | Category 4 |

**Signal Word**
**Danger**

**Hazard Statements**
May intensify fire. Harmful if swallowed. Causes serious eye damage. May cause damage to organs through prolonged or repeated use. Causes severe skin burns and eye damage

**Precautionary Statements - Prevention**
Keep away from heat. Keep / store away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Take any precaution to avoid mixing with combustibles – flammables.
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

Immediately call a poison center or doctor/physician
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a poison center or doctor/physician
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a poison center or doctor/physician
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up. Store away from incompatible materials.

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other Hazards**

None known

**Supplemental information**

80% of the mixture consists of component(s) of unknown acute oral toxicity.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No | Weight-% |
|---|---|---|
| Hydrogen Peroxide | 7722-84-1 | <16 |
| Water | 7732-18-5 | 81 – 83% |
| Proprietary | | <1.0% |

**If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret. **

## 4. FIRST-AID MEASURES

**First Aid Measures**

**General Advice** Provide this SDS to medical personnel for treatment.

**Eye Contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

**Skin Contact** IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician. Wash contaminated clothing before reuse.

**Inhalation** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

**Ingestion** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach contents doesn't get into the lungs. Get medical advice/attention if you feel unwell.

**Most important symptoms and effects**

**Symptoms** Causes severe skin burns and eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Prolonged exposure may cause chronic effects.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General information** Take off all contaminated clothing immediately. Contact with combustible material may cause fire. If you feel unwell, seek medical advice (show the label where possible). ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

**Unsuitable Extinguishing Media** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific Hazards Arising from the Chemical**
Greatly increases the burning rate of combustible materials. Containers may explode when heated. During fire, gases hazardous to health may be formed.

**Hazardous Combustion Products: Oxygen**.

**Protective equipment and precautions for firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. In cases of fire and/or explosion do not breathe fumes. In case of fire: Stop leak if safe to do so. Move containers from fire area if you can without risk.

**Specific methods**
Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards**
May intensify fire; oxidizer. Contact with combustible material may cause fire.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Use personal protection recommended in Section 8. Keep unprotected persons away. Keep people away from and upwind of spill/leak. Keep away from clothing and other combustible materials. Do not breathe mist or vapor. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Environmental Precautions** Avoid discharge into drains, water courses or onto the ground.

**Methods and material for containment and cleaning up**

**Methods for Containment**

Eliminate all ignition sources (no smoking, flares, or flames in the immediate area. Keep combustibles (wood, paper, oil, etc.) away from spilled materials. Ventilate the contaminated area.
Large spills: Stop the flow of materials, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
Small spills: Absorb with earth, sand or other non-combustible materials and transfer to container for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Wear appropriate protective equipment and clothing during clean-up.

**Methods for Clean-Up**

Dilute with a large volume of water and hold in a pond or diked area until hydrogen peroxide decomposes. Dispose of contents/container to an approved waste disposal plant.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on Safe Handling**

Keep away from heat. Keep away from clothing and other combustible materials. Take precaution to avoid mixing with combustibles. Provide adequate ventilation.
Wear protective gloves/protective clothing and eye/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Avoid prolonged exposure. Do not taste or swallow. When using do not eat, drink or smoke. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions**

Keep away from heat. Keep container tightly closed and store in a cool, dry and well-ventilated place. Do not store near combustible materials. Protect from sunlight. Store locked up. Store away from incompatible materials (see Section 10 of this SDS).

**Incompatible Materials**

Oxidizing agents. Reducing agents. Caustics. Heavy metals.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Hydrogen Peroxide<br>7722-84-1 | TWA: 1 ppm | TWA: 1 ppm<br>TWA: 1.4 mg/m$^3$<br>(vacated) TWA: 1 ppm<br>(vacated) TWA: 1.4 mg/m$^3$ | IDLH: 75 ppm<br>TWA: 1 ppm<br>TWA: 1.4 mg/m$^3$ |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls**

**Engineering Controls**

Apply technical measures to comply with the occupational exposure limits. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

**Individual protection measures, such as personal protective equipment**

| | |
|---|---|
| **Eye/Face Protection** | Chemical respirator with organic vapor cartridge and full face piece. Use standard chemical splash-type mono goggles or face shield with safety glasses if splashing is expected during handling of product. |
| **Skin and Body Protection** | Rubber or neoprene footwear. Impervious clothing or apron materials such as rubber, neoprene, nitrile or polyvinyl chloride. Wear liquid proof rubber or neoprene gloves. Thoroughly rinse the outside of gloves with water prior. |
| **Respiratory Protection** | Chemical respirator with organic vapor cartridge and full face piece. |
| **General Hygiene Considerations** | Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash face, hands and any exposed skin thoroughly after handling. Keep from contact with clothing and other combustible materials. Remove and wash contaminated clothing promptly. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

| | | | |
|---|---|---|---|
| **Physical State** | Liquid | | |
| **Appearance** | Clear colorless liquid | **Odor** | Mild |
| **Color** | Colorless | **Odor Threshold** | Not determined |

| **Property** | **Values** | **Remarks • Method** |
|---|---|---|
| **pH** | 5.5 – 6.5 | |
| **Melting Point/Freezing Point** | -0.43 °C / 31.23 °F | |
| **Boiling Point/Boiling Range** | 110.4 °C / 230.72 °F | |
| **Flash Point** | Not determined | |
| **Evaporation Rate** | >1 | (butyl acetate = 1) |
| **Flammability (Solid, Gas)** | Liquid- Not Applicable | |
| **Upper Flammability Limits** | Not determined | |
| **Lower Flammability Limit** | Not determined | |
| **Vapor Pressure** | 0.53 hPa estimated | @30°C (86°F) |
| **Vapor Density** | Not determined | |
| **Specific Gravity** | 1.07 | (Water = 1) @ 20°C (68°F) |
| **Water Solubility** | 100% | |
| **Solubility in other solvents** | Not determined | |
| **Partition Coefficient** | Not determined | |
| **Auto-ignition Temperature** | Not determined | |
| **Decomposition Temperature** | Not determined | |
| **Kinematic Viscosity** | Not determined | |
| **Dynamic Viscosity** | Not determined | |
| **Explosive Properties** | Not determined | |
| **Oxidizing Properties** | Not determined | |

## 10. STABILITY AND REACTIVITY

**Reactivity**
Greatly increases the burning rate of combustible materials.

**Chemical Stability**
Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**
None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Conditions to Avoid**
Excessive heat. Contamination of any kind. Contact with incompatible materials.

**Incompatible Materials**
Oxidizing agents. Reducing agents. Caustics. Heavy metals. Combustible materials

**Hazardous Decomposition Products**
Oxygen.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

**Eye Contact** Causes severe eye damage.

**Skin Contact** No adverse effects due to skin contact are expected.

**Inhalation** Vapors, mists, or aerosols of hydrogen peroxide can cause upper airway irritation, inflammation of the nose, hoarseness, shortness of breath, and a sensation of burning or tightness in the chest. Prolonged exposure to concentrated vapor or to dilute solutions can cause irritation and temporary bleaching of skin and hair. Exposure to vapor, mist, or aerosol can cause stinging pain and tearing of eyes.

**Ingestion** Do not ingest. Harmful if swallowed.

**Component Information**

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Hydrogen Peroxide 7722-84-1 | = 801 mg/kg (Rat) | = 2000 mg/kg (Rabbit) = 4060 mg/kg (Rat) | = 2 g/m$^3$ (Rat) 4 h |

**Information on physical, chemical and toxicological effects**

**Symptoms** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Hydrogen Peroxide 7722-84-1 | A3 | Group 3 | | |

**Legend**
***ACGIH (American Conference of Governmental Industrial Hygienists)***
*A3 - Animal Carcinogen*
***IARC (International Agency for Research on Cancer)***
*Group 3 IARC components are "not classifiable as human carcinogens"*

**Numerical measures of toxicity**
Not determined

**Information on toxicological effects**

**Acute toxicity** Harmful if swallowed.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye** Causes serious eye damage.

**Respiratory or skin sensitization**
**Respiratory sensitization** Not a respiratory sensitizer.
**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**IARC Monographs, Overall Evaluation of Carcinogenicity**
HYDROGEN PEROXIDE (H2O2) (CAS 7722-84-1) 3 Not classifiable as to carcinogenicity to humans.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)** Not listed

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity-Single exposure** Not classified

**Specific target organ toxicity-** Eyes, Respiratory Systems, Skin.

**Aspiration hazard** Not as aspiration hazard.

**Chronic effects** May cause damage to eyes, respiratory system, or skin through prolonged or Exposure. Inhalation may be harmful.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Component Information**

| Chemical Name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---|---|---|---|---|
| Hydrogen Peroxide 7722-84-1 | 2.5: 72 h Chlorella vulgaris mg/L EC50 | 18 - 56: 96 h Lepomis macrochirus mg/L LC50 static 10.0 - 32.0: 96 h Oncorhynchus mykiss mg/L LC50 static 16.4: 96 h Pimephales promelas mg/L LC50 | | 18 - 32: 48 h Daphnia magna mg/L EC50 Static 7.7: 24 h Daphnia magna mg/L EC50 |

**Persistence/Degradability**
Not determined.

**Bioaccumulation**
Not determined.

**Mobility**
Not determined

**Other Adverse Effects**
Not determined

## 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods**

| | |
|---|---|
| **Disposal of Wastes** | Disposal should be in accordance with applicable regional, national and local laws and regulations. Collect and reclaim or dispose in sealed containers at licensed waste site. |
| **Contaminated Packaging** | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| **Hazardous waste code** | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| **Waste from residual / unused products** | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residuals. This material and its container must be disposed of in a safe manner (see Disposal instructions). |
| **Contaminated packaging** | Since emptied may retain product residual, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. |

**California Hazardous Waste Status**

| Chemical Name | California Hazardous Waste Status |
|---|---|
| Hydrogen Peroxide<br>7722-84-1 | Toxic<br>Corrosive<br>Ignitable<br>Reactive |

## 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**UN number** UN2014

**UN proper shipping name** HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS

**Transport hazard class(es)**
**Class** 5.1
**Subsidiary risk** 8

**Packing group** II

**Special precaution for user** Read safety instructions, SDS and emergency procedures before handling.

**ERG number** 140

DOT information on packaging may be different from that listed.


## 15. REGULATORY INFORMATION

**International Inventories**

| Chemical Name | TSCA | DSL | NDSL | EINECS | ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|---|---|---|---|---|---|---|---|---|---|---|
| Hydrogen Peroxide | yes | yes | no | yes | no | yes | yes | yes | yes | yes |

**Legend:**

***TSCA*** *- United States Toxic Substances Control Act Section 8(b) Inventory*

***DSL/NDSL*** *- Canadian Domestic Substances List/Non-Domestic Substances List*

***EINECS/ELINCS*** *- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

***ENCS*** *- Japan Existing and New Chemical Substances*

***IECSC*** *- China Inventory of Existing Chemical Substances*

***KECL*** *- Korean Existing and Evaluated Chemical Substances*

***PICCS*** *- Philippines Inventory of Chemicals and Chemical Substances*

***AICS*** *- Australian Inventory of Chemical Substances*

**US Federal Regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

**SARA 304 Emergency release notification**

HYDROGEN PEROXIDE (H2O2) (CAS 7722-84-1) 1000 LBS

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**SARA 302 Extremely hazardous substances**

| Chemical Name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|---|---|---|---|
| Hydrogen Peroxide 7722-84-1 | | 1000 lb | |

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA).
Immediate Hazard – yes
Delayed Hazard – Yes
Fire Hazard – yes
Pressure Hazard – No
Reactivity Hazard - No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPS) List**

Not regulated

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40CFR 68.130)**

Not regulated

**Safe Drinking Water Act (SDWA)**

Not regulated

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| Hydrogen Peroxide 7722-84-1 | X | X | X |

## 16. OTHER INFORMATION

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health Hazards** | **Flammability** | **Instability** | **Special Hazards** |
| | 3 | 0 | 0 | OX |
| **HMIS** | **Health Hazards** | **Flammability** | **Physical Hazards** | **Personal Protection** |
| | 3 | 0 | 2 | H |

**Issue Date:** 15-Nov.-2015
**Revision Date:**
**Revision Note:** New format

**Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**