

**SAFETY DATA SHEET**

Issue date: September 2017

EnviroFlex

SDS No: 155 Page 1

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name: EnviroFlex  
 Product Code: 155  
 Product Description:  
 Manufactured by: Enviro-Brite Solutions, LLC  
 Address: 5606 F-41  
 Telephone Number: 989-387-2758 8:00 am – 5:00 pm  
**EMERGENCY TELEPHONE NUMBER: 989-387-2758 24 hours**



**2. COMPOSITION / INFORMATION ON INGREDIENTS**

	Cas No.	% by wt.	EC No.	EC Class	Hazardous component
Peroxyacetic Acid	79-21-0	5-8	201-186-8	O, Xn, C; R7-10-20/21/22-35; S1/2-3/7-14-36/37/39-45-61	
Hydrogen Peroxide	7722-84-1	20-25	231-765-0	Xn, R22-4; S1/2-3-17-26-28-36/37/39-45	
Acetic Acid	64-19-7	5-10	200-580-7	R10-34-35-36/38; S1/2-23-26-45	
Water	7732-18-5	52-60	231-791-2	Not classified	
Nitric Acid	7697-37-2	5-10	231-714-2	Ox. Liq. 3, H272, Acute Tox. 2 (Inhalation:dust,mist), H330, Skin Corr. 1A, H314, Eye Dam. 1, H318	

**HAZARD, RISK AND SAFETY PHRASE DESCRIPTIONS:**

EC Risk Phrases: R22 (Harmful if swallowed.)  
 R41 (Risk of serious damage to eyes.)  
 EC Safety Phrases: S1/2 (Keep locked up and out of reach of children.)  
 S3 (Keep in a cool place.)  
 S17 (Keep away from combustible material.)  
 S26 (In case of contact with eyes, rinse immediately with plenty of water and seek medical advice)  
 S28 (After contact with skin, wash immediately with plenty of water and soap.)  
 S45 (In case of accident or if you feel unwell, seek medical advice immediately - show the label where possible.)  
 Acetic acid:  
 EC Symbols: C (Corrosive)  
 Xi (Irritant)  
 EC Risk Phrases: R10 (Flammable)  
 R35/34 (Causes severe burns / causes burns)  
 R36/38 (Irritating to eyes and skin.)  
 EC Safety Phrases: S1/2 (Keep locked up and out of reach of children.)  
 S23 (Do not breathe gas, fumes, vapor, or spray)  
 S26 (In case of contact with eyes, rinse immediately with plenty of water and seek medical advice)  
 S45 (In case of accident or if you feel unwell, seek medical advice immediately - show the label where possible.)

**3. Hazards Identification**

Emergency Overview	Harmful or fatal if swallowed. Eye contact may cause blindness. Vapors irritating to eyes and respiratory tract.
Potential Health Effects	Listed below.
Ingestion	Corrosive. Causes burns to mouth, throat & stomach. May be fatal if swallowed
Inhalation	Vapors or mist harmful or irritating if inhaled. Symptoms include a burning taste, sneezing, coughing and difficulty breathing.
Eye contact	Corrosive. Causes permanent eye damage, including blindness.
Skin Contact	Severely irritating to skin.

**4. FIRST AID MEASURES**

INGESTION	If swallowed, rinse mouth, drink a large quantity of water or milk. Then Immediately contact a physician or Poison Center. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
INHALATION	If exposed to excessive levels of vapors, remove to fresh air and get medical attention if cough or other symptoms develop. People with asthma or other lung problems may be more susceptible to injury.
EYE CONTACT	Immediately flush eye with plenty of cool, running water for 15 minutes. Use buffered eye solutions if available. Remove contact lenses if applicable, and continue flushing for at least 15 minutes, holding eyelids apart to ensure thorough rinsing of entire eye. Get medical attention immediately.
SKIN CONTACT	Flush skin with plenty of warm running water for 15 minutes. Wash with soap and water. If irritation develops or persists, get medical attention. Remove contaminated clothing and shoes; wash before reuse.
NOTE TO PHYSICIAN	Information pertaining to ingestion toxicology, therapy, symptomatology and treatment can be found in <u>Commercial Clinical Toxicology of Products</u> , authored by Gosselin, Smith and Hodge and published by Williams & Wilkins, Baltimore, Maryland. See listing for Acid in Therapeutics Index, Section III.

**5. FIRE FIGHTING PROCEDURES:** Use flooding quantities of water only. Use water spray to keep fire exposed containers cool. Fight fire from protected location or maximum distance. Chemical type extinguishers are not effective with peracetic acid or hydrogen peroxide, which are ingredients in this product. Use proper personal protective equipment and positive pressure self contained breathing apparatus.

**FLAMMABLE LIMITS:** Not available

**SENSITIVITY TO IMPACT:** Not available

**SENSITIVITY TO STATIC DISCHARGE:** Not available

**6. ACCIDENTAL RELEASE MEASURES**

Small Spills: Flush to sanitary sewer. Mop up residual and rinse area thoroughly with water.

Large Spills: Dike or dam spill. Soak up with inert absorbent material. Unused product as a waste is corrosive (d002) by RCRA criteria.

**7. HANDLING AND STORAGE**

Handling Precautions	Always add acids to water when diluting. Keep container tightly closed when not in use.
Storage Precautions	Protect from freezing. Store upright in a cool dry place. Keep out of reach of children.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>Hygienic Practices</b>	Observe label precaution. Use personal protective equipment. Avoid breathing mists or vapors. Handle in accordance with good industrial hygiene.
<b>Engineering Controls</b>	Local exhaust ventilation may be necessary during prolonged use conditions. Facilities using this product should be equipped with an eyewash station.

**Personal Protective Equipment**

* <b>Respirator</b>	Respiratory protection required where vapor concentrations are high.
* <b>Goggles/face shield</b>	Required. Goggles should be chemical splash type.
* <b>Apron</b>	Recommended to protect skin and clothing.
* <b>Gloves</b>	Required. Use PVC, Neoprene or Nitrile with protective cuff.
<b>Boots</b>	Recommended.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Colorless liquid	<b>Boiling Point</b>	228 deg F
<b>Odor</b>	Pungent, vinegar like	<b>Freezing Point</b>	Not established
<b>PH</b>	1.0 (100% concentrate)	<b>Vapor Pressure</b>	Not established
<b>Specific Gravity</b>	8.65 lbs/gal	<b>Vapor Density</b>	Not established
<b>Solubility in Water</b>	Complete	<b>Evaporation Rate</b>	Above 1 (butyl Acetate)
<b>VOC content</b>	None		

**10. STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:** Stable, contamination or heat could initiate decomposition.

**CONDITIONS TO AVOID:** Do not mix with anything but water. Open flames.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Alkalis, soft metal, heavy metals, chlorine or bleach, oils or any other detergents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Acetic acid and oxygen support combustion.

**HAZARDOUS POLYMERIZATION:** Will not occur

**11. TOXICOLOGICAL INFORMATION****EYE EFFECTS:** Severely irritating, corrosive (rabbit) [FMC Study I83-719]**SKIN EFFECTS:** Severely irritating, corrosive (rabbit) [FMC Study I83-720]

VigorOx® SP-15 Antimicrobial Agent (79-21-0-11) Date: 08/06/2007

**DERMAL LD50:** > 200 mg/kg (rabbit) [FMC Study I83-721]**ORAL LD50:** No data available for the product.

35% Peracetic Acid: 50 - 500 mg/kg [FMC Study I86-935]

**INHALATION LC50:** No data available for the product.5% Peracetic Acid: 4,080 mg/m<sup>3</sup> (4157 ppm) (4 h) (rat) [FMC Study I96-2138]100% Peracetic Acid: 204 mg/m<sup>3</sup> (66 ppm) (4 h) (rat) [FMC Study I96-2138]**TARGET ORGANS:** Eyes, skin, nose, throat, lungs**ACUTE EFFECTS FROM OVEREXPOSURE:** No data available for the product.

Liquid may cause severe burns and irreversible tissue damage to eyes, including blindness. Inhalation of peracetic acid vapors causes lacrimation and irritation of the mucous membranes, eyes and nasal passages.

**CHRONIC EFFECTS FROM OVEREXPOSURE:** No data available for the product. Product contains hydrogen peroxide. The International Agency for Research on Cancer (IARC) has concluded that there is inadequate evidence for carcinogenicity of hydrogen peroxide in humans, but limited evidence in experimental animals (Group 3 - not classifiable as to its carcinogenicity to humans). The American Conference of Governmental Industrial Hygienists (ACGIH) has concluded that hydrogen peroxide is a 'Confirmed Animal Carcinogen with Unknown Relevance to Humans' (A3). Repeated inhalation of the mist may cause inflammation of the upper respiratory tract, chronic bronchitis and etching of the dental enamel.**CARCINOGENICITY:****Chemical Name IARC NTP OSHA Other**

Hydrogen Peroxide Listed Not listed Not listed (ACGIH) Listed (A3, Animal Carcinogen)

**12. ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION:** No data available for the product.

5% Peracetic Acid:

96-hour LC50 = 1.6 mg/L (Rainbow trout) [FMC I95-2023]

96-hour LC50 = 1.1 mg/L (Bluegill sunfish) [FMC I95-2029]

48-hour EC50 = 0.73 mg/L (Daphnia magna) [FMC I95-2021]

120-hour EC50 = 0.18 mg/L (Selenastrum, green algae) [FMC I95-2027]

**13. DISPOSAL CONSIDERATIONS****DISPOSAL METHOD:** Discharge as a hazardous waste into a suitable treatment system in accordance with local, state and federal governmental agencies.**14. TRANSPORT INFORMATION****U.S. DEPARTMENT OF TRANSPORTATION (DOT)****PROPER SHIPPING NAME:** Organic Peroxide Type F, Liquid (<=17% Peracetic Acid with <= 26% Hydrogen Peroxide)**PRIMARY HAZARD CLASS / DIVISION:** 5.2 (Organic Peroxide), Subsidiary Risk: 8 (Corrosive)**UN/NA NUMBER:** UN 3109**PACKING GROUP:** II**LABEL(S):** 5.2 Organic Peroxide and Subsidiary Risk -8 (Corrosive)**PLACARD(S):** 5.2 Organic Peroxide**MARKING(S):** Organic Peroxide Type F, Liquid (with <=17% Peracetic Acid with <= 26% Hydrogen Peroxide), UN 3109**ADDITIONAL INFORMATION:** Hazardous Substance/RQ: Not applicable 49 STCC Number: Not applicable

Material is shipped in 5 gal. (45 lb.), 30 gal.(250 lb.) and 55 gal. (450 lb.) vented linear (not cross linked) polyethylene containers, as well as linear (not cross linked)polyethylene IBC's (300 gal.).

Do not ship on wooden pallets.

**INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG)****PROPER SHIPPING NAME:** Organic Peroxide Type F, Liquid (<=17% Peracetic**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355, APPENDIX A):**

Peracetic Acid: Planning Threshold = 500 lbs.

**SECTION 311 HAZARD CATEGORIES (40 CFR 370):**

Fire Hazard, Immediate (Acute) Health Hazard, Reactive

**SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR 370):**

The Threshold Planning Quantity (TPQ) for this product, if treated as a mixture, is 10,000 lbs; however, this product contains the following ingredients with a TPQ of less than 10,000 lbs.: 500 lb

**SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372):**

Peracetic acid

**CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT)****CERCLA DESIGNATION & REPORTABLE QUANTITIES (RQ) (40 CFR 302.4):**

15 % Peracetic Acid (Unlisted), RQ = 100 lbs., Ignitability, Corrosivity

**16. OTHER INFORMATION**

## NFPA Classification

3	Blue	Health Hazard
1	Red	Flammability
2	Yellow	Reactivity
--	White	Special Hazard

This information refers only to the specific material designated and does not relate to the involving of other material. This information is based on data believed to be reliable, and the Product is intended to be used in the manner that is Customary and reasonable. Since actual use and handling is beyond our control, no warranty, express or implied, is made and no liability is assumed by Enviro-Brite Solutions LLC in connection with the use of this information.