

Materials Specifications Data Sheet

1. Identification
Product Name: ZeroTox
Agency/Fungicide: Biosafe Systems
Manufacturer: 80 Commerce Street, Glastonbury, CT 06033
Office Telephone Number: (860) 273-3088
Emergency CHEMTREC: 800-424-9500 (24 HOURS EVERY DAY)

NOTE: NOT VALID TWO YEARS AFTER CREATION DATE

2. Hazardous Components
 Propoxyacetic Acid (C.A.S. #79-31-0)
 Hydrogen Peroxide (C.A.S. #7722-84-1)

3. Health Hazards Data:
 • Corrosive to mucous membranes, eyes and skin
 • The seriousness of the lesions and the prognosis of irritation depend directly on the concentration and duration of exposure.
Skin: May cause TEMPORARY skin discoloration and irritation.
Eyes: May cause SEVERE eye damage
Ingestion: HARMFUL OR FATAL. Causes chemical burns of mouth, throat and stomach.
 • Corrosive to gastrointestinal tract
 • Excessive fluid in the mouth and nose
 • Bleating of stomach and belching
 • Nausea and vomiting
 • Risk of chemical pneumonia and pulmonary edema
Inhalation: Vapors or mist can cause irritation. People with asthma or other lung problems may be more affected.

4. First Aid
General recommendations:
 In case of product splashing in eyes, treat eyes first
 • Submerge soiled clothing in water
 • Contact physician in all cases
Eyes: Immediately flush with plenty of cool running water. Remove contact lenses. Continue flushing for at least 15 minutes, holding eyelids apart to ensure rinsing of the entire eye. Administer analgesic eye wash (tetracaine).
Skin: Immediately flush skin with plenty of cool, running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before re-use.
Ingestion: Rinse mouth at once; then drink 1 or 2 large glasses of water or milk. DO NOT induce vomiting. NEVER give anything by mouth to an unconscious person. Take person to hospital.
Inhalation: Immediately move a person to fresh air.

5. Fire and Explosion Data
 • Special fire hazards: Product (concentrate) can decompose and will release oxygen thereby adding to the fire hazard.
 • To the following methods: Product is not flammable and can be quickly diluted with clean water.
 • Oxidizing agent may cause spontaneous ignition with oxidizing agents.

6. Spill or Leak Procedures
 • Cleanup: Rinse small amounts to drain when possible. Dilute or dam large spills, pump to containers or soak in inert absorbent. Flush residue to sanitary sewer, rinse area thoroughly with clean water.
 • Avoid materials that are incompatible with concentrate.
 • Waste Disposal: Consult state and local authorities for restrictions on disposal of chemical wastes. (Unused product (concentrate) is classified as a D002) by RCRA criteria.)
 • Considerable abiotic and biotic degradability

7. Handling and Storage
 • Never return product back to the original container
 • Keep concentrate away from reactive substances
Acute Toxicity:
 • Fish, Rainbow trout (LS50, 48 hours=40 mg/L)
 • Crustaceans, EC 50,48 hours 126.8 mg/l 1 mg/L
 • Bacteria, *Pseudomonas aeruginosa*, EC 100, 5 minutes, % 5mg/L

13. Disposal Considerations
 • Store in original containers in a cool, well-ventilated area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.
 • Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Open dumping is prohibited. If waste cannot be disposed of according to label directions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.
 • Triple rinse (or equivalent). Then offer for recycling or dispose in a sanitary landfill, or incineration, if allowed by state and local authorities by burning, stay out of smoke.

14. Transport Information
DOT Shipping Name: Hydrogen Peroxide and peroxy-acetic acid mixture, stabilized, not more than 5% Peroxyacetic acid
UN Number: 3149
Hazard Class: 5.1
Primary Hazard Label: Oxidizer
Secondary Hazard Label: Corrosive
Packing Group: II
Shipping Container: UN Certified vented polyethylene, 2.5, 30 and 55 gallon polyethylene drums

Regulatory Information
TSCA Inventory List: YES
CECLA Hazardous Substance (40 CFR 302): Corrosive
Labelled substance: NO
Unlisted Substance: YES
Characteristics: Corrosive
Reportable Quantity: 100 pounds
NFPA Rating Health - 2 | Flammability - 0 | Reactivity - 3
Special - OXY
HMS Rating Health - 2 | Flammability - 0 | Reactivity - 2
PPE - Required
Canadian WHMIS Classification
C - Corrosive
F - Dangerously Reactive
E - Corrosive

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11. Toxicological Information:
Acute Toxicology:
 • Oral route, LD50, rat: 330 mg/kg; test substance 7% solution.
 • Dermal route, LD50 rabbit, 1410 mg/kg; test substance: 10% solution
 • Inhalation, LD₅₀, four hours, rat: 4080 mg/kg; test substance: 5% solution
Irritation:
 • Rabbit, corrosive (eyes) test substance: 4% solution
 • Rabbit, corrosive (skin) test substance: 5% solution
Chronic Toxicity:
 • Dermal = 50.12% solution, irritating effect
 • Inhalation = > 5 mg, m3, irritant
 • Route of entry = inhalation / ingestion

12. Ecological Information
 Toxic to simple cell and aquatic organisms. Danger to the environment limited; due to product properties.
 • No bioaccumulation
 • Sol degradation = 99% in 20 minutes
 • Considerable abiotic and biotic degradability



Broad Spectrum Algaecide/Fungicide PROFESSIONAL TURF CARE Specimen Label and MSDS

pertaining to the statements on this label about Personal Protective Equipment (PPE) and Restricted Entry Interval (REI). The requirements in this box only apply to the use of this product that are covered by the Worker Protection Standard.

THERE IS A RESTRICTED ENTRY OF ZERO (0) HOURS FOR THIS PRODUCT.

PERSONAL PROTECTIVE EQUIPMENT (PPE)
 When handling concentrate wear protective eyewear (goggles or face shield) and rubber gloves. Applicators and handlers must wear coveralls over long-sleeved shirt, long pants, and chemical resistant footwear plus socks. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions exist for washables, use detergent and hot water.

USER SAFETY RECOMMENDATIONS
 Users should wash hands thoroughly with soap and water before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS
FOR TERRESTRIAL USES: Keep out of lakes, ponds and streams. This pesticide is toxic to birds and fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wash waters.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or dispose in a sanitary landfill, or incineration, if allowed by state and local authorities by burning, stay out of smoke.

PHYSICAL AND CHEMICAL HAZARDS
 Strong oxidizing agent. **Corrosive.** Do not use in concentrated form. Mix only with water in accordance with label instructions. Never bring concentrate in contact with other pesticides, cleaners or oxidative agents.

DIRECTIONS FOR USE
 It is a violation of federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS
 Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions

FOR HORTICULTURAL AND COMMERCIAL USE ONLY
 27%
 73%
ACTIVE INGREDIENT:
 Hydrogen Peroxide
INERT INGREDIENTS
 TOTAL: 100%

KEEP OUT OF REACH OF CHILDREN
DANGER - PELIGRO
 Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

IF IN EYES
 • Hold eye open and rinse slowly and gently with water for 15-20 minutes.
 • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
 • Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING
 • Rinse off contaminated clothing.
 • Rinse skin immediately with plenty of water for 15-20 minutes.
 • Call a poison control center or doctor for treatment advice.

IF SWALLOWED
 • Call poison control center or doctor immediately for treatment advice.
 • Have person sip a glass of water if able to swallow.
 • Do not induce vomiting unless told to do so by the poison control center.
 • Do not give anything by mouth to an unconscious person. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

NOTE TO PHYSICIAN
 Probable mucosal damage may contraindicate the use of gastric lavage.

Sold by: Biosafe Systems, 80 Commerce Street, Glastonbury, CT 06033
EPA Registration No. 70299-1
EPA Establishment No. 60156-IL-001

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMAN AND DOMESTIC ANIMALS
CORROSIVE: Concentrate causes irreversible eye damage. Concentrate may be fatal if swallowed. Concentrate causes skin irritation or temporary discoloration on exposed skin. Do not breathe vapor of concentrate. Do not get concentrate in eyes, on skin or on clothing.