1. IDENTIFICATION
Product Name: ZeroTol 2.0 ®
Product Type: Bactericide / Fungicide
Manufacturer: BioSafe Systems, LLC
22 Meadow St., East Hartford, CT 06108

2. HAZARDOUS COMPONENTS
Hydrogen Peroxide= 5.6% PAA, 26.9% H2O2, 7.6% HOAc
Peroxoacetic Acid= 82.0% 20% ®

3. HEALTH HAZARDS DATA
Health effects to over exposure to CONCENTRATE:
• Corrosive to mucous membranes, eyes and skin.
• The seriousness of the lesions and the prognosis of intoxication depend directly on the concentration and duration of exposure.

4. FIRST AID
Skin: May cause TEMPORARY skin discoloration and irritation.
Eyes: May cause severe eye damage.
If Swallowed: HARMFUL OR FATAL. Causes chemical burns of mouth, throat and stomach.
• Corrosive to gastrointestinal tract
• Paleness and cyanosis of the face
• Excessive fluid in the mouth and nose
• Bloating of stomach and belching
• Nausea and vomiting
• Risk of chemical pneumonitis and pulmonary edema
If Inhaled: Vapors or mist can cause irritation. People with asthma or other lung problems may be more affected.

5. PROTECTION
Respiratory: Avoid breathing mists or vapors of concentrate.
Eyes: Use chemical splash goggles when handling concentrate. For continued severe exposure, wear a face shield over the goggles.
Skin: Rubber gloves - protective or gauntlet type preferred when handling concentrate. Use aprons. ACGIH TLV: 1 PPM 8 HOUR TWA 1.4 mg/m3 TWA
OSHA PEL: 1 PPM 8 HOURS TWA 1.4 mg/m3 TWA

6. SPILL OR LEAK PROCEDURES
Clean up: Rinse small amounts to drain when possible.
Removal: Follow label with you when disposing.

7. HANDLING AND STORAGE
• Prevent contact with organic materials
• Keep concentrate away from reactive substances
• Never use metal containers or spigots
• Use vented container
• Warn personnel of dangers of concentrated product

8. 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 decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.
• Wastes 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 wastes 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.

9. PHYSICAL AND CHEMICAL PROPERTIES
Appearance: Clear, colorless liquid
Odor: Pungent
Freezing Point: -30°C (-22°F)
Boiling Point: Not applicable, product decomposes
Specific Gravity: 1.10
pH: 9.06
Solubility: Complete
Decomposition Temperature: self-accelerating decomposition temperature > 55°C

10. STABILITY AND REACTIVITY
Stability: Stable under normal conditions, with slow oxygen release
Conditions to Avoid: Heat / Direct Sunlight
Materials to Avoid: · Acids · Bases · Reducing Agents

11. TOXICOLOGICAL INFORMATION
Acute Toxicology:
• Acute oral toxicity: LD50, rat 3,622 mg/kg. Test substance: 5.6% PAA, 26.9% H2O2, 7.6% HOAc solution
• Acute dermal toxicity: LD50, rabbit, 1040 mg/kg. Test substance: 4.89% PAA, 19.72% H2O2, 10% HOAc solution
• Acute inhalation toxicity: LC50, rat > 5.35 ml/L for four hour exposure. Test substance: 4.5% PAA, 27% H2O2, 16.7% HOAc solution
• Primary eye irritation: rabbit, severely irritating or corrosive. Test substance: 2% PAA solution
• Primary dermal irritation: rabbit, severe irritant. Test substance: 2% PAA solution

Chronic Toxicity:
• Dermal: >0.12% 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
• Soil degradation = 99% in 20 minutes
• Considerable abiotic and biotic degradability
• Sediments = Non-significant adsorption
• Weak persistence of degradation products
• Degradation products = water & oxygen

13. REGULATORY INFORMATION
DOT Shipping Name: Hydrogen Peroxide mixture, stabilized
UN Number: 3149
Hazard Class: 5.1
Primary Hazard Label: Oxidizer
Subsidiary Risk Label: Corrosive
Packing Group: II
Shipping Container: UN Certified vented polyethylene.

14. TRANSPORT INFORMATION
TSCA Inventory List: YES
CERCLA Hazardous Substance (40 CFR 302)
Listed substance: NO
Unlisted Substance: YES
Characteristic: Corrosive
Reportable Quantity: Hydrogen Peroxide 1000 lbs., Peroxyacetic Acid 500 lbs.

15. SAFETY DATA SHEET
For additional information on ZeroTol® 2.0, call us toll-free at 1.888.273.0308. ©2013 Copyright BioSafe Systems LLC. ZeroTol 2.0 is a registered trademark of BioSafe Systems LLC. Always read and follow label directions. 07.12