Material Safety Data Sheet

1. IDENTIFICATION
Product Name: TerraCyte®
Product Type: Granular Algaecide/Fungicide
Manufacturer: BioSafe Systems LLC

2. COMPONENTS
Sodium Carbonate Peroxyhydrate: CAS #135630-89-4
Calcium Carbonate

3. HEALTH HAZARDS DATA
If on skin: May cause slight irritation.
If in eyes: May cause severe eye irritation.
If swallowed: Severe irritation of the mouth, throat, esophagus and stomach.
If inhaled: Slight nose and throat irritation.

4. FIRST AID
If in eyes:
- Hold eye open and rinse slowly and gently with water for 15 – 20 minutes.
- Remove contact lenses, if present, after initial rinsing.
- Call a poison control center or doctor for treatment advice.

If on skin or clothing:
- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 – 20 minutes.
- Take off contaminated clothing or doctor for treatment advice.

If swallowed:
- Call a 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 or doctor.
- Do not give anything by mouth to an unconscious person.

If inhaled:
- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- Call a poison control center or doctor for treatment advice.

5. FIRE AND EXPLOSION DATA
Special fire hazards: Oxidizing substance that causes exothermic reactions with organic materials.
Fire fighting methods: Product is not flammable and can be quickly diluted with clean water.

6. SPILL OR LEAK PROCEDURES
Cleanup: Collect the product with suitable means, shovel, sweep, avoiding dust formation.
Waste disposal: Do not return spilled or contaminated material to inventory. Clean the area with large quantities of clear, cold water.

7. HANDLING AND STORAGE
Never return product back to the original container.
Keep container away from reactive substances.
Prevent contact with organic materials.
Keep product in original container.
Store in cool, dry area.
Keep out of direct sunlight.

8. EXPOSURE CONTROLS PERSONAL PROTECTION
Respiratory: For most conditions, no respiratory protection should be needed.
Eyes: Use dust proof chemical goggles.
Skin: Chemical gloves – for brief contact, no chemical gloves are necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES
Appearance: White, granular, solid Odor: None
Density: 0.35 – 0.65 g/cm³
Solubility: 140 g/L at 24 °C (75°F)
pH: 1% solution: 10.4 – 10.6

10. STABILITY AND REACTIVITY
Stability: Stable under normal conditions
Materials to avoid:
- Acids
- Bases
- Reducing Agents
- Organic Materials

11. TOXICOLOGICAL INFORMATION
Acute toxicity:
- Dermal = LD rabbit > 2000 mg/kg
- Inhalation = LC 0.1 hour ray > 2290 mg/m³
- Oral = LD 50 rat 517 mg/kg

12. ECOTOLOGICAL INFORMATION
Toxic to simple cell 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 = sodium carbonate, carbon dioxide, bicarbonate carbon, hydrogen dioxide

13. DISPOSAL CONSIDERATIONS
Packaging Treatment: Rinse empty containers with clean water. Clean and empty containers are to be recycled or disposed in accordance with local regulations.

14. TRANSPORT INFORMATION
D.O.T. Shipping Name: Not regulated
UN Number: None
Hazard Class: None
Primary Hazard Label: None
Subsidiary Risk Label: None
WHIMS Classification: C – Oxidizing

15. PHYSICAL AND CHEMICAL CHARACTERISTICS
Calcium Carbonate

16. INGREDIENTS
Active Ingredient: Sodium Carbonate Peroxyhydrate* . . . . . . . . . . . . . . . . . . .34.00%
Other ingredients: . . . . . . . . . . . . . . . . . . .66.00%
Total: . . . . . . . . . . . . . . . . . . . . . . . . .100.00%
*Contains 27.6% Hydrogen Dioxide by weight

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.

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

Manufactured by: BioSafe Systems LLC
22 Meadow Street
East Hartford, CT 06108
EPA Registration No. 70299-3
EPA Establishment No. 72859-TX-001

PRECAUTIONARY STATEMENTS
Hazard to Human and Domestic Animals – DANGER
Corrosive: Causes irreversible eye damage. Harmful if swallowed, inhaled or absorbed through skin. Do not get in eyes, on clothing, or on clothing. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)
When handling, wear protective eyewear (goggles or face shield) and chemical resistant 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. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS
Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on a clean set of clothes. Users should remove any pesticides, cleaners or other substances 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
This pesticide is toxic to birds. Do not contaminate water when cleaning equipment or disposing of equipment washwater. Do not apply to treated or finished drinking water reservoirs or drinking water receptacles. This product is highly toxic to bees and other beneficial insects exposed to direct contact on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. Do not apply this product or allow it to drift to crops where beneficials are part of an integrated pest management strategy.

PHYSICAL AND CHEMICAL HAZARDS
Strong oxidizing agent. Corrosive. Do not bring 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. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only properly trained and certified handlers may be in the area during application.

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
immediately after spreading. To treat over wet surfaces or must be watered applications must either be made over wet surfaces. Thoroughly water soil surface to be treated.

For curative applications, evenly distribute 4 lbs of TerraCyte per 1000 square feet (¼ teaspoon per square foot). Rinse TerraCyte granules thoroughly from foliage.

For follow-up and preventative applications, evenly distribute 5 lbs of TerraCyte per 1000 square feet (¼ teaspoon per square foot). Rinse TerraCyte granules thoroughly from foliage. Repeat on a weekly to bi-weekly basis.

For use on turf grasses: Apply TerraCyte to well-established golf course fairways, greens and tees for the prevention and control of Algae, Moss, Slime Molds and their spores. TerraCyte is activated by moisture and must be watered in after application.

The best time to apply TerraCyte for curative applications is either the spring or fall when temperatures are 50°F or above. Apply TerraCyte to well-established turf areas at a rate of 8 pounds per 1,000 square feet. When using a drop spreader, uniform coverage is essential for best results (see Table 2 for spreader settings). Take caution to avoid overlap. If applying on greens, always open up the spreader off of the green and on the collar.

Activate TerraCyte with water immediately following application. Water to recommended amount or for at least 10 minutes.

Make subsequent applications by applying 2 - 4 pounds of TerraCyte per 1,000 square feet. Repeat applications every 5 to 7 days to prevent re-infestation. To treat for Algae, Moss, Slime Molds and their spores. TerraCyte is activated by moisture and must be watered in after application.

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For curative applications, evenly distribute 4 lbs of TerraCyte per 1,000 square feet. Apply TerraCyte to soil of 8-inch pots; 0.04 oz or ¼ teaspoon of TerraCyte over the surface of 10-inch pots. Repeat on a bi-weekly basis.

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