


Form #:	SDS-071
Revision Date:	05/07/2019
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Section 1: Identification			
Product Name:	TerraClean® 5.0 Mexico	Product Type / Description:	Bactericide / Fungicide
Recommended Use:	Bactericide / Fungicide for commercial use.	Other Means of Identification:	Peracetic Acid, Peroxyacetic Acid, PAA
Use Restrictions:	It is a violation of the law to use this product in a manner inconsistent with its labeling.		
Manufacturer:	BioSafe Systems, LLC 22 Meadow Street East Hartford, CT 06108	COFEPRIS Registration #:	RSCO-MEZC-0302X-0436-X0045-375-32.0
Telephone Number:	1-888-273-3088	Emergency Number: 1-800-424-9300 (CHEMTREC)	

Section 2: Hazard Identification	
GHS Classification	Hazard Statements
Organic Peroxide: Type F Corrosive to Metals: Category 1 Acute Toxicity Oral: Category 4 Dermal: Category 4 Inhalation: Category 4 Skin Corrosion/Irritation: Category 1A Serious Eye Damage/Eye Irritation: Category 1	H242: Heating may cause fire. H290: May be corrosive to metals. H302: Harmful if swallowed. H314: Causes severe skin burns and eye damage. H332: Harmful if inhaled. H335: May cause respiratory irritation.
Pictograms	Signal Word
	DANGER
Precautionary Statements	
General	Response
P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P103: Read label before use.	P301+P330+P331: IF SWALLOWED: Rinse mouth. Do not induce vomiting. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340: IF INHALED: Move person to fresh air and keep comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER/doctor. P321: For specific treatments see FIRST AID section on SDS or label. P363: Wash contaminated clothing before reuse. P370+P378: In case of fire: Use water or other suitable extinguishing media. P390: Absorb spillage to prevent material damage.
Prevention	Storage / Disposal
P210: Keep away from heat, sparks or open flames, no smoking. P220: Store away from combustible materials. P221: Take any precautions to avoid mixing with combustibles. P234: Keep only in original container. P260: Do not breathe fumes, mist or vapors. P262: Do not get in eyes, on skin or on clothing. P264: Wash thoroughly after handling. P270: Do not eat, drink, or smoke when using this product. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves, clothing, eye protection, face protection.	P405: Store locked up. P406: Store in corrosive resistant container, never use metal containers. P410: Protect from sunlight. P411: Store at temperatures not exceeding 55°C (131°F). P420: Store away from incompatible materials. P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3: Composition / Information on Ingredients		
Components	CAS-No	% Composition (w/w)
Hydrogen Peroxide	7722-84-1	25,65 – 28,35%
Peroxyacetic Acid	79-21-0	4,75 – 5,25%
Acetic Acid	64-19-7	7,20 – 8,80%

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Section 4: First-Aid Measures

Eye Contact:	In case of eye contact, remove contact lenses and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. See a medical doctor immediately.
Skin Contact:	Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek immediate medical attention/advice.
Ingestion:	Rinse mouth with water. Never give anything by mouth to an unconscious person. Call a physician immediately. If swallowed, do not induce vomiting - seek medical advice.
Inhalation:	Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Consult a physician if necessary.
Notes to Physician:	This product can be corrosive to skin, eyes, and mucous membranes. Careful gastric lavage should be considered. Observations may be warranted. Treatment is controlled removal of exposure followed by supportive care.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media:	Water spray.
Unsuitable Extinguishing Media:	Carbon dioxide, alcohol foam, dry chemical. Heavy water stream can spread fire.
Combustion Products:	Corrosive vapors, acetic acid, carbon oxides.
Unusual Fire and Explosion Hazards:	Product is not flammable but during a fire, product can decompose and generate oxygen which can initiate or promote combustion.
Protective Equipment for Firefighters:	Full chemical protection suits and boots (rubber or PVC) and self-contained breathing apparatus. Cordon the area to keep out all unnecessary personnel. Keep upwind. Use large quantities of water spray to fight fire. Cool containers / tanks with water spray. If safe to do, move product away from fire to secure area. Eliminate all possible sources of ignition and remove flammable material.

Section 6: Accidental Release Measures

Personal Precautions:	Ensure adequate ventilation. Avoid inhalation, ingestion and contact with skin and eyes.
Emergency Procedures:	Ensure clean-up is conducted by trained personnel. Personnel should wear appropriate protective equipment. Remove all sources of ignition. Keep people away from and upwind of spill/leak. If facing concentrations above exposure limits personnel shall wear certified respirators.
Environmental Precautions:	Prevent undiluted spillage from entering sewers, basements or watercourses.
Methods and Material for Containment and Clean-Up:	Dike to collect large liquid spills. Contain spills with earth or sand or inert absorbent. Stop leak and contain spill if this can be done safely. Dilute with large quantities of water. If safe to do so, move product to secure area. Control runoff and isolate discharged material for proper disposal. Do not seal waste material, do not use textiles, tissues, saw dust or combustible materials to clean the spill. Do not return product to the original storage container/tank due to risk of decomposition.

Section 7: Handling and Storage

Handling:	Wear protective gloves/eye protection/face protection/body, skin protection. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Avoid breathing fumes/mist/vapors. Use only outdoors or in a well-ventilated area.
Storage:	Store in cool, ventilated area. Keep away from heat. Keep only in original container. Protect from sunlight. Store at temperatures not exceeding 30°C (86°F) for product quality. Do not store near combustible materials.
Incompatible Materials:	Oxidizing agents, strong reducing agents, combustible materials, heavy metals.

Section 8: Exposure Controls / Personal Protection

Components with Workplace Control Parameters

Component	LMPE-PPT	LMPE-CT or Peak
Acetic Acid	10 ppm 25 mg/m ³	15 ppm 37 mg/m ³
Hydrogen Peroxide	1 ppm 1,5 mg/m ³	2 ppm 3 mg/m ³
Engineering Controls:	Ensure adequate ventilation. Emergency eye wash stations should be available in the immediate vicinity of any potential exposure.	
General Hygienic Practices:	Do not eat, drink or smoke during use.	
Personal Protective Equipment:	Protective clothing, protective goggles, gloves, face shield.	
Respiratory Protection:	Use air-purifying or supplied air respirator where airborne concentrations of vapor or mist are expected to exceed exposure limits.	
Eye / Face Protection:	Chemical goggles or face shield.	
Hands:	Chemical resistant gloves.	
Skin / Body:	Wear suitable protective clothing.	

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Section 9: Physical and Chemical Properties

Appearance:	Clear, colorless liquid.	Odor:	Pungent, vinegar-like.	Odor Threshold:	NA
pH:	<1,5	Specific Gravity:	1,10 g/cm ³	Viscosity:	NA
Melting Point:	NA	Freezing Point:	-30°C (-22°F)	Boiling Point:	NA
Flash Point:	NA	Flammability:	NA	Flammability Limits:	NA
Vapor Pressure:	22 mm Hg (25°C)	Vapor Density:	NA	Solubility:	Complete.
Evaporation Rate:	NA	Auto-Ignition Temperature:	NA	Decomposition Temperature:	Self-accelerating decomposition temperature > 55°C
Relative Density:	NA	Partition Coefficient n-octanol / water:	NA		

Section 10: Stability and Reactivity

Reactivity:	Reactive and oxidizing agent, organic peroxide.
Stability:	Stable under normal conditions of storage.
Conditions to Avoid:	Open flames/heat sources, temperatures above 55°C (131°F), direct sunlight, combustible materials.
Incompatible Materials:	Acids, bases, reducing agents, organic materials, heavy metals, salts of metals.
Hazardous Decomposition Products:	Thermal decomposition generates corrosive vapors, acetic acid and oxygen which supports combustion.

Section 11: Toxicological Information

Acute Toxicological Data

Oral LD50:	330 mg/kg (rat)	Dermal LD50:	1410 mg/kg (rabbit)	Inhalation LC50:	4 hours – 4080 mg/m ³ (rat)
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Symptoms and Effects

Condition	Acute Effects	Chronic (Delayed) Effects
Eye Contact:	Causes serious eye damage.	None.
Skin Contact:	Causes severe skin burns.	None.
Inhalation:	May cause respiratory tract irritation.	None.
Ingestion:	Harmful if swallowed.	None.

Section 12: Ecological Information

Ecotoxicity:	Duration	Species	Value
	96 hr LC50	<i>Salmo gairdneri</i>	13 mg/L (NOEC <10 mg/L)
	96 hr LC50	<i>Pleuronectes platessa</i>	89,1 mg/L (NOEC 56 mg/L) (12% solution)
	48 hr EC50	<i>Daphnia magna</i>	3,3 mg/L (NOEC 1 mg/L)
	96 hr EC50	<i>Crangon crangon</i>	126,8 mg/L (NOEC 56 mg/L) (12% solution)
	5 min EC100	<i>Pseudomonas aeruginosa</i>	5 mg/L
Persistence and Degradability:	Weak persistence of degradation products.		
Bioaccumulative Potential:	Does not bioaccumulate.		
Mobility in Soil:	Non-significant adsorption soil degradation, >99% in 20 minutes.		
Results of PBT & vPvB:	This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).		
Other Adverse Effects:	None known.		

Section 13: Disposal Considerations

Waste from Residues and Unused Product:	Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.
Contaminated Container Disposal:	Do not reuse or refill this container. Triple rinse empty containers with clean water. Clean and empty containers are to be recycled or placed in the trash.

Section 14: Transport Information

UN Number	UN Proper Shipping Name	Hazard Class (Subsidiary)	Packing Group	IATA	Marine Pollutant
DOT 3109	Organic peroxide type F, liquid (Peroxyacetic Acid, Type F, Stabilized, <43%)	5.2 (8)	NA	Not permitted for shipment by air.	No
TDG 3109	Organic peroxide type F, liquid (Peroxyacetic Acid, Type F, Stabilized, <43%)	5.2 (8)	NA		
IMDG 3109	Organic peroxide type F, liquid (Peroxyacetic Acid, Type F, Stabilized, <43%)	5.2 (8)			


Special Precautions: Shipping container: UN certified vented polyethylene


Shipping Placards:



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Transport in bulk according to Annex II of MARPOL 73/78	Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 21HZ1 and 31HZ1).
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Section 15: Regulatory Information							
Report Quantity from 1000kg:		In the case of the following substances in liquid state: Hydrogen peroxide					
Grade:		Moderate risk, Grade 2					
COFEPRIS	This product is a registered pesticide with The Federal Commission for the Protection against Sanitary Risk Agency and is subject to certain labeling requirements. These requirements may differ from the classification criteria and hazard information required for a safety data sheet under the Global Harmonized Systems (GHS), and for workplace labels of non-pesticide chemicals. It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Always refer to product label for further precautionary information and use directions.						
NFPA Rating:	Health:	3	Flammability:	1	Reactivity:	1	Special: OX (Oxidizer)
HMIS Rating:	Health:	3	Flammability:	1	Physical:	1	PPE: Recommended.
PPE:							

Section 16: Other Information	
The information is considered correct, but is not exhaustive and will be used only as guidance, which is based on the current knowledge of the chemical or mixture and is applicable to the appropriate safety precautions for the product.	
For additional information, call us toll-free at 1.888.273.3088 or visit www.biosafesystems.com	
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