



MATERIAL SAFETY DATA SHEET

Section 1 - Identification

Product Name: Gardener's Touch - Plant Defense
EPA Reg. No. : 96865-1-99348
EPA Est. No. : 91634-OK-1
Product Description: Electrically Activated Neutral Anolyte
Chemical Family: Diluted Mixture of Oxychlorine Compounds
Product Type: Oxidizing Disinfectant
Manufacturer Name: Gardener's Touch, LLC
Address: 7335 S Lewis Ave, Suite 300
Tulsa, OK 74136
Emergency Phone: (918) 528-9900

Section 2 – Hazards Identification

US DOT: Non-Regulated Material
GHS Hazard Symbols: None
GHS Signal Word: None
GHS Hazard Classification: None
Hazard Statements: None
Precautionary Statements: None
Health Hazards from Exposure: Acute – None known
Chronic – None known
Target Organs: Acute – None known
Chronic – None known

Section 3 – Composition

Ingredient	CAS No.	EINECS No.	Weight/Volume	Hazard Classification
Water	7732-18-5	231-791-2	99.69%	None
Sodium Chloride	7647-14-5	231-598-3	0.26%	None
Hypochlorous Acid	7790-92-3	232-232-5	0.05%	None
Hypochlorite Ion	7681-52-9	231-668-3		None

The activated mixed oxidants are in disequilibrium immediately after activation and gradually revert to the primary ingredients.



Section 4 – First-Aid Measures

Signs and Symptoms of Poisoning:	None detected. Refer to water intoxication.
First-Aid Procedures:	Non-specific. Use good personal hygiene practices.
Skin Contact:	Remove contaminated clothing, including shoes, immediately and drench affected skin with plenty of water. Seek medical attention if irritation develops and persists. Wash contaminated clothing and shoes before reuse.
Eye Contact:	Immediately flush eyes with copious quantities of water for several minutes. Seek medical advice if irritation persists.
Ingestion:	Do not induce vomiting. Give plenty of water to drink. Seek medical assistance if ill effects occur.
Inhalation:	Remove patient to fresh air. Seek medical attention if ill effects occur.
Emergency Antidote:	None.

Section 5 – Fire-Fighting Measures

Extinguishing Media Suitable:	Chemical type foam, powder, sand, or water spray.
Hazardous Combustion Products:	Oxides of Chlorine.
Hazards and Methods:	General hazard. Evacuate personnel downwind of fire to avoid inhalation of irritating and/or harmful fumes or smoke.
Protection of fire fighters:	
Flammability:	Neutral Anolyte is not inflammable.
Special Fire-Fighting Procedures:	This product is a non-flammable substance.



Section 6 – Accidental Release Measures

Spillages: Leaks and spills can be removed in accordance with methods employed for ordinary water. Wash to waste with plenty of water.

Section 7 – Handling and Storage

Handling Concentrated Product: No special precautions necessary.

Handling or Applying Diluted Product: No special precautions necessary.

Storage: Optimal efficacy of the product will be prolonged if Neutral Anolyte is stored away from direct sunlight and in sealed, airtight opaque or tinted glass containers.

Other Precautions: Keep out of reach of uninformed persons, children, and animals.

Section 8 – Exposure Controls/Personal Protection

Ingredient	CAS No.	OSHA TWA
Water	7732-18-5	Not Listed
Sodium Chloride	7647-14-5	Not Listed
Hypochlorous Acid	7790-92-3	Not Listed
Hypochlorite Ion	7681-52-9	Not Listed

Exposure Limits/Guidelines: Wear safety glasses when handling this material. Avoid prolonged contact with the skin. Use good personal hygiene practices.

Medical Advice: Neutral Anolyte has been extensively tested in/on animals and poses no threat to the welfare of the operator or test animal.



Section 9 – Physical Description

Physical State:	Liquid
Appearance:	Homogeneous clear, liquid
Color:	Colorless
Odor:	Mild chlorine/ozone odor
Solubility:	Complete in water.
Boiling Point:	100°C
Chemical pH:	6.5 ± 0.5
Oxidation Reduction Potential ORP:	800 ± 150mV

Section 10 – Stability and Reactivity

Stability:	The product is stable under normal ambient conditions of temperature and pressure. Neutral Anolyte retains its optimal [i.e. sporicidal activity] Oxidation Reduction Potential (ORP) for a period of up to 30 days, whereafter it progressively degrades to the ORP of the source water. The activated mixed oxidants are in disequilibrium immediately after activation and gradually revert to primary ingredients.
Incompatibility (Material to Avoid):	As a dilute aqueous solution, Neutral Anolyte is reactive with concentrated acid and alkaline solutions as per standard chemical practices.
Hazardous Decomposition/Bi-Products:	Neutral Anolyte degrades to the quality of the source water. May produce oxides of chlorine vapors.
Hazardous Polymerization:	No hazardous polymerization products have been detected.
Corrosion Potential:	Stainless Steel Grades: 304=<10-3mm/annum 316=<10-3mm/annum 3CR12=<10-1mm/annum Mild Steel Grade: 0.35mm/annum Galvanized Steel Grade: 0.24mm/annum



Section 11 – Toxicological Information

Acute Toxicity:	LD ₅₀ (oral: Rat) > 20,000 mg/kg
Acute Dermal Irritation:	Negative.
Acute Eye Irritation:	Negative.
Dermal Sensitization:	Negative (guinea pig).
Mutagenicity (Ames Test):	Negative for In-vitro Salmonella typhimurium mutagenic studies.
Cytogenicity:	At 500ppm available chlorine, no Cytogenetic activity on mice bone marrow chromosomes was induced.
Carcinogenicity:	No conclusion on the carcinogenicity of chlorine can be made from the limited information available from human and animal studies.
Inhalation:	Not available.
Occupational Exposure Limits:	None.
Hazards:	There are no known health hazards.

Section 12 – Ecological Information

Environmental Data:	Presents no hazard to the environment
Degradability:	Neutral Anolyte degrades to source water quality with a low sodium chloride mineralization allied to the input concentration of the salt.
Hazards:	Neutral Anolyte, generated at pH=6.5, is non-hazardous to human and animal tissue.



Section 13 – Disposal Considerations

Waste Disposal: Where permitted, Neutral Analyte can be disposed of in municipal drains without adverse effects. However, where required, local environmental regulatory requirements should be followed. The oxidant activity of Analyte can be neutralized with surplus organic matter/soiling. Dilute to waste with plenty of water.

Section 14 – Transport Information

THIS PRODUCT IS NOT CLASSIFIED AS DANGEROUS GOODS AS DEFINED BY 49 CFR 172.1010 BY THE US DEPARTMENT OF TRANSPORTATION.

Proper Shipping Name: Non-Regulated Material

Hazard Class Number and Description: None

Packing Group: None

DOT Label(s) Required: None

North American Emergency Response Guidebook Number: None

Marine Pollutant: This product's ingredients are not classified by the DOT as a marine pollutant (as defined by 49 CFR 172.101, Appendix B).



Section 15 – Regulatory Information

- SARA Reporting Requirements: This product is not subject to the reporting requirements of sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows: None
- TSCA: All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.
- SARA 311/312: Acute Health: No
Chronic Health: No
Fire Reactivity: No
- U.S. SARA Threshold Planning Quantity: There are no specific Threshold Planning Quantities for this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) may apply, per 40 CFR 370.20.
- U.S. CERCLA Reportable Quantity (RQ): None
- CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):
None of the ingredients are on the California Proposition 65 lists.

Section 16 – Other Information

SDS Version: 1
SDS Version Date: 12/16/20

DISCLAIMER:

This information is based on our current knowledge and is intended to describe the product for the purposes of health and safety requirements only. It should not- in itself, therefore, be construed as a guarantee of any specific quality relating to the product, which will depend on the terms of the contract of trial or sale. The user must satisfy himself/herself that the product is suitable for his/her purpose.