Safety Data Sheet

SECTION I: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Growers Choice Plant Guard	
Product Description	Electrochemically activated solution of potassium chloride (0.9% or less)	
CAS#:	7790-92-3	
Manufacturer:	Danolyte Global 9216 Bond Overland Park, KS 66214	
Phone number:	913-489-7600 **For product sales information call:**	913-489-7600
For Information of health risks call:	913-489-7600 **24-hour emergency information call:**	913-489-7600

Section II: HAZARDS IDENTIFICATION



Growers Choice Plant Guard is not classified as hazardous for environment disinfectant use.
HMIS Hazard Rating: Health = 0 Flammability= 0 Physical = 0 Reactivity= 0
Legend: 0 = Minimal Hazard 1 = Slight Hazard 2 = Moderate Hazard 3 = Serious Hazard 4 = Severe Hazard

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SECTION III: COMPOSITION AND INFORMATION ON INGREDIENTS

Component(s)	CAS#	% weight
Water	None	≥ 99%
Hypochlorous acid	7790-92-3	≤ 0.05%

The Product contains no hazardous components. The Product contains 500± ppm Free Available Chlorine (FAC).

SECTION IV: FIRST AID MEASURES

Under normal use conditions the likelihood of any adverse health effect is low.
Inhalation: If breathing problems develop, move away from Product and into fresh air.
Skin Contact: If any irritation occurs, wash affected area with water.
Eye Contact: If irritation occurs, flush eyes with water.
Ingestion: Drink an 8 oz. glass full of water.
Exposure Limits: No exposure limits established for the Product by ACGIH or OSHA.
Medical conditions generally recognized as being aggravated by exposure to Product: NA
Primary route(s) of exposure: Inhalation of Product vapors or fumes is the most common route of exposure in occupational settings.

SECTION V: FIREFIGHTING MEASURES

Not flammable or explosive. If necessary, use fire extinguishing methods suitable to surrounding conditions

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SECTION VI: ACCIDENTAL RELEASE MEASURES

Personal Precautions: No personal protective equipment is required under normal conditions. The following suggestions should be considered in case of accidental chlorine release due to acidification.
Ventilation: Open air or good room ventilation is adequate for the safe use of the Product. Avoid breathing any vapors or fumes resulting from acid ventilation.
Respiratory Protection: In accordance with OSHA regulations (29 CFR 1910.134 and 29 CFR 1910.1000) fogging or spraying applications may require worker respiratory protection, such as (1) NIOSH/MSHA approved air-purifying respirators, or (2) NIOSH/MSHA approved canister/cartridge facial respirators for chlorine/acid vapors.
Eye Protection: Although Product is designed to be safe for eyes, good manufacturing and laboratory practices recommend the use of chemical safety goggles for all applications involving chemical handling.
Protective Clothing: Although Product is designed to be safe for skin, good manufacturing and laboratory practice recommend that, at a minimum, rubber, neoprene, or other chemically impervious gloves be worn for all applications involving chemical handling.
Environmental Precautions: Product is ≤0.9% potassium chloride (salt) solution and ≤0.05% available chlorine. Some localities allow such concentrations to be sent to open storm sewers; however local environmental regulatory requirements should be followed. If desired, spills can be washed to sewer with plenty of water or neutralized using sodium sulfite or sodium thiosulfate.

SECTION VII: HANDLING AND STORAGE

Precautions and Conditions for Safe Handling: No special requirements are necessary. Store according to package directions.

SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Open air ventilation is adequate safe use of the Product. Avoid breathing vapors or fumes resulting from acid ventilation. Personal Protective Equipment: No personal protective equipment is required under normal conditions.

SECTION IX: PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid Chemical Chlorine odor depending on
Odor:	strength of the solution
Solubility in water:	Completely soluble
PH-values:	6.5-7.5
Melting-point:	NA
Boiling-point:	100° C
Flash Point (°C)	None (Non-Flammable)
Explosive:	N/A
Density:	8.34 lbs./gal
Vapor pressure:	App. 2,330 Pa
Vapor Density (Air=1):	ND
Specific Gravity (H2O=1):	1.0-1.06 g/ml
Evaporation Rate:	Comparable to water

Safety Data Sheet

SECTION X: STABILITY AND REACTIVITY
Stability: Loses its level of available chlorine at high temperatures and when exposed to direct sunlight.
Conditions to Avoid: Avoid accidental or uncontrolled contact of Product with acids and hydrogen peroxide.
Hazardous Decomposition Products: None.
Hazardous Polymerization: Will not occur.

SECTION XI: TOXICOLOGICAL INFORMATION
Developmental/Reproductive Toxicity: No conclusion has been made based on human and animal studies.
Carcinogenicity: No conclusion on the carcinogenicity of chlorine has been made based on the limited information available from human and animal studies. Neither the Product nor any of its constituents are listed in the latest NTP Annual Report on Carcinogens or has been found to be a potential carcinogen in the latest IARC Monograph or by OSHA.
Cytogenecity: Product does not possess cytogenetic activity, based on chromosome induction tests in the bone marrow cells of mice.
Toxicity and exposure limits to Chlorine:
TLV/TWA: 1 ppm (3 mg/cubic meter) Acute Oral LD_{50} in rats g/kg 0.73
TLV/STEL: 3 ppm (9 mg/cubic meter) Dermal LD_{50} in rats g/kg 1.26 - 2.0

SECTION XII: ECOLOGICAL INFORMATION
Environmental data: Destroys bacteria, viruses, spores and algae
Degradability: Fully Biodegradable.
Bio-accumulation: None
Mobility: None
Product does not present adverse effects to the environment.

SECTION XIII: DISPOSAL CONSIDERATIONS
Packaging can be disposed of as local laws permit for a non-hazardous material.

SECTION XIV: TRANSPORT INFORMATION
OSHA Label: Not dangerous good. No label required.
DOT Proper Shipping Name, Hazard Class, UN/NA Number Packing Group, RQ: Not DOT Regulated. No DOT label required.
IATA: Not dangerous good. No IATA label required
IMDG: Not dangerous good. No IMDG label required

SECTION XV: REGULATORY INFORMATION
TSCA No: All chemicals in this Product are listed on the EPA TSCA Inventory list.
CERCLA/SARA: This Product has been reviewed according to the EPA "Hazard Categories" promulgated under Section 311 and 312 of SARA. It does not fall in any listed category and poses no risk of immediate (acute) health hazard, delayed (chronic) health hazard, fire hazard, or sudden release of pressure and is not reactive (see 29 CFR § 1910.1200).
OSHA Hazard Communication Standard: Product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
Clean Air Act: NA.

SECTION XVI: OTHER INFORMATION
This Safety Data Sheet (SDS) was prepared in accordance with the provisions and requirements of 29 CFR § 1910.1200(g) and discloses the physical and health hazards of all hazardous chemicals contained in the Product described in this SDS, but unless otherwise noted, does NOT describe or disclose ALL of the chemicals/components in the Product, some of which may be Trade Secrets.
The information included in this SDS is based on data developed or compiled by Danolyte Global, Inc. (DG) from open literature, independent laboratory studies, and other available scientific evidence and is believed to be accurate and complete, but DG makes no warranty with respect thereto. Neither does DG make any representation or warranty, express or implied, with respect to the Product or its suitability for any purpose or use, hereby disclaiming all such warranties, including the implied warranties of merchantability and fitness for a particular purpose and the implied warranty that the Product is free of claims of third persons by way of infringement or the like. Anyone intending to use the Product described in this SDS should satisfy himself that the Product (1) is suitable for their purposes and intended uses, and (2) meets any safety and health standards applicable thereto. It is the obligation of each user of the Product described in this SDS to determine and comply with the requirements of all statutes - local, state and federal - applicable to its use, storage and disposal.

SECTION XVII: SYMBOLS/ABBREVIATIONS

ACGIH = American Conference of Governmental Industrial Hygienists	ND = Not Determined
ASTMI = American Society for Testing and Materials International	NFPA = National Fire Protection Association
CAS # = Chemical Abstracts Service Register number	NTP = National Toxicology Program
CERCLA = Comprehensive Environmental Response Compensation and Liability Act CL= Ceiling Limit	OSHA= Occupational Safety and Health Administration
	TWA = Time Weighted Average
	PMCC = Pensky - Martens Closed Cup Flash Point Determination
HMIS = Hazardous Materials Identification System	SARA= Superfund Amendment and Reauthorization Act of 1986
IARC = International Agency for Research on Cancer	STEL = Short Term Exposure Limit
IATA: International Air Transport Association	TCC = Tagliabue Closed Cup flash point determination
NIOSH = National Institute for Occupational Safety and Health	TLV = Threshold Limit Value
Hygienists NA= No Applicable Information	TWA= Time Weighted Average, 8 hours

Additional Information/Comments
Growers Choice Plant Guard was designed to be a less hazardous product than others currently in use.

Preparation Date (or latest revision): October 14, 2026