VAN DIEST SUPPLY COMPANY
Distributor and Manufacturer of Agricultural Chemicals

Safety Data Sheet

1. IDENTIFICATION

1.1 GHS Product Identifier: **Cornbelt® Gardian®**

1.2 Alternate Name(s): None

1.3 Recommended Use/Restrictions: Please see the label for specific recommendations regarding this product.

Chemical Class: Tank mix adjuvant
Active Ingredient: A proprietary blend of nonionic surfactants plus polyacrylamide in an electrolyte solution.

1.4 Supplier's Details:
Van Diest Supply Company
1434 220th St. Post Office Box 610
Webster City, Iowa 50595

1.5 Emergency Phone Number: FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

2. HAZARD IDENTIFICATION

2.1 Hazard Classification:

Class	Category
Serious eye damage/eye irritation	2A
Skin corrosion/irritation	2

2.2 GHS Label Elements and Precautionary Statements:

Warning

Hazards:

H319 Causes serious eye irritation.
H315 Causes skin irritation.

Prevention:

P264 Wash hands and other potentially contaminated body parts thoroughly after handling.
P280 Wear eye protection and protective gloves.

Response:

P302+P352 **If on skin**: Wash with plenty of soap and water.
P332+P313 **If Skin irritation occurs:** Get medical advice.
P362+P364 Take off contaminated clothing and wash it before reuse.
P305+P351+P338 **If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313 **If eye irritation persists**: Get medical advice.

2.3 Unclassified Hazards: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Material	Common Name/Synonyms	CAS #	% in Formulation
Proprietary blend of nonionic surfactants plus poly-acrylamide polymer in an electrolyte solution	N/A	N/A	100%

This Safety Data Sheet is not a guarantee of product specification. Specific ingredient content may be found on the product label.

4. FIRST AID MEASURES

4.1 General First Aid Recommen-dations are as follows:	**Eye Contact:**	Hold eye open and rinse slowly and gently with clean water. Remove contact lenses after 5 minutes, if present, then continue rinsing eye. Seek medical advice as appropriate.
	Skin Contact:	Remove contaminated clothing and clean skin thoroughly with soap and water. Wash contaminated clothing before reuse.
	Ingestion:	Call a poison control center, physician, or hospital immediately for treatment advice as appropriate. Identify the name of the product, the type and amount of exposure, and symptoms the patient is experiencing. Do not induce vomiting unless told to do so by a poison control center, physician, or hospital. Do not give anything by mouth to an unconscious person.
	Inhalation:	Remove to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration if possible.
4.2 Most Important Symptoms/Effects (acute and delayed):		Overexposure by contact may cause severe irritation to skin and eyes.
4.3 Indication of Need for Immediate Medical Attention:		If poisoning is suspected, or any symptoms are serious, immediately contact the poison control center, physician, or nearest hospital for instructions. Inform the contact of the name of the product, the type and amount of exposure, and symptoms the patient is experiencing. Seek medical advice if severe or persistent eye or skin irritation occurs.

5. FIREFIGHTING MEASURES

5.1 Suitable Extinguishing Media:	Use any Class B fire extinguisher such as a multi-purpose dry chemical, CO_2, or foam extinguisher to extinguish a small fire in accordance with your company's established expectations.
Unsuitable Extinguishing Media:	Class A-only fire extinguishers, such as water based extinguishers, are not ideal for small fires on this material.
5.2 Specific Hazards Arising from the Chemical:	No specific hazardous decomposition products have been identified. It is recommended to presume that during a fire, irritating and possibly toxic gases may be generated by partial thermal decomposition or combustion, including oxides of carbon, nitrogen, and sulfur, as well as smoke and fumes.
5.3 Special Protective Actions for Firefighters:	To fight larger fires, use full protective clothing and a self-contained breathing apparatus. Evacuate nonessential personnel from area to prevent exposure to fire, smoke, fumes, or products of combustion. Dike and collect water runoff.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures:	Using appropriate personal protective equipment specified in Section 8 – Exposure Control/Personal Protection, absorb any spilled material and place in a container for disposal. Disposal methods should be consistent with information in Section 13 – Disposal Considerations.
6.2 Environmental Precautions	Keep spill away from drains, sewers, and bodies of water.
6.3 Methods and Material for Containment and Cleanup:	Using safe handling precautions established elsewhere in this material safety data sheet, attempt to control the spill at its source if safe to do so. Control the release of material to prevent contamination of soil or bodies of water. Cover spilled liquid material with a suitable oleophilic absorbent and collect in a suitable container for disposal. Sweep up any spilled dry or dried material or absorbent and collect for disposal. Clean area with detergent, absorb wash water with absorbents, and collect in a suitable container for disposal.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:	Follow personal protective equipment recommendations as shown in Section 8 – Exposure Control/Personal Protection when handling this material, adjusted for specific handling methods and conditions, to prevent contact with this material. Wash thoroughly with soap and water after handling this material. Do not allow eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to this material. Follow label instructions carefully.
7.2 Conditions for Safe Storage:	Store this product in a well-ventilated area, in the original container. Secure material from access by children or domestic animals. Do not store this product near food, beverages, or tobacco products. Do not store with incompatible materials. Refer to Section 10 – Stability and Reactivity, for incompatible materials.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Occupational Exposure Limits:

Material	CAS #	OSHA PEL	ACGIH TLV	Carcinogen		
				NTP	IARC	OSHA
Glycerol	56-81-5	15 mg/m^3	10 mg/m^3 (mist)	No	No	No
Sodium hydroxide	1310-73-2	2 mg/m^3	C:2 mg/m^3	No	No	No
Phosphoric acid	7664-38-2	1 mg/m^3	1 mg/m^3	No	No	No

8.2 Engineering Controls:

Maintain air concentrations below occupational exposure standards using ventilation techniques as necessary.

8.3 Personal Protective Equipment: The following recommendations are suitable for small, incidental contact with this material. Recommendations for commercial or on-farm application of this chemical may be found on the container label.

Eye Contact:	If splashing can be reasonably anticipated, for instance while pouring the product into another container, wear chemical splash goggles.
Skin Contact:	Where skin contact is possible wear a suitable barrier such as chemical resistant gloves and chemical apron. Preferred glove materials include: butyl rubber, nitrile, polyethylene, and PVC.
Ingestion:	Do not allow eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to this material.
Inhalation:	A respirator is not normally needed for the incidental handling of this product. For spills or other situations that may generate elevated levels of vapor or dust use a suitable NIOSH certified respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Hazy liquid	**Upper/Lower Explosive Limit:**	ND
Odor:	Sweet aromatic	**Vapor Pressure:**	ND
Odor Threshold:	ND	**Vapor Density:**	>1
pH:	4.5-5.5	**Relative Density:**	1.19
Melting Point:	ND	**Solubility:**	Soluble
Boiling Point:	ND	**Partition Coefficient, *n*-Octanol/Water**	ND
Flash Point:	>200°F (Tag CC)	**Auto-Ignition Temperature:**	ND
Evaporation Rate:	ND	**Decomposition Temperature:**	ND
Flammability:	Combustible	**Viscosity:**	ND

ND=No Data; NA=Not Applicable

10. STABILITY AND REACTIVITY

10.1 Reactivity: Non-reactive under normal conditions.

10.2 Chemical Stability: Stable under normal conditions.

10.3 Possibility of Hazardous Reactions: Will not occur.

10.4 Conditions to Avoid: Contact with incompatible materials.

10.5 Incompatible Materials: Strong oxidizers, strong acids, strong bases, chlorates, and nitrates.

10.6 Hazardous Decomposition Products: Thermal decomposition produces oxides of carbon and nitrogen.

11. TOXICOLOGICAL INFORMATION

11.1 Likely Routes of Exposure: Overexposure may occur by inhalation, ingestion, and absorption.

11.2 Skin Corrosion/Irritation: This material is anticipated to be severely irritating to the skin.

11.3 Serious Eye Damage/Irritation: This material is anticipated to be severely irritating to the eyes.

11.4 Respiratory or Skin Sensitization: This material is not suspected of being a sensitizer.

11.5 Germ Cell Mutagenicity: This material is not suspected of being mutagenic.

11.6 Carcinogenicity: This material is not suspected of being a carcinogen.

Material	Carcinogen		
	NTP	IARC	OSHA
Glycerol	No	No	No
Sodium hydroxide	No	No	No
Phosphoric acid	No	No	No

11.7 Reproductive Toxicity: This material is not suspected of being a teratogen.

11.8 STOT-Single Exposure: Overexposure by vapor inhalation is unlikely under normal handling conditions.

11.9 STOT-Long Term Exposure: This material is not linked to long-term exposure effects.

11.10 Aspiration Hazard: This product does not meet the definition of an aspiration hazard.

11.11 Acute Toxicology:

Ingestion:	Oral LD_{50}	>5,000 mg/kg
Skin Contact:	Dermal LD_{50}	>5,000 mg/kg
Inhalation:	Inhalation LC_{50} (dust/mist)	ND

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity: This product is not expected to be toxic in the aquatic environment.

12.2 Persistence and Degradability: No data.

12.3 Bioaccumulative Potential: No data.

12.4 Mobility in Soil: No data.

13. DISPOSAL CONSIDERATIONS

Rinse containers thoroughly three times and use rinsate according to label instructions. Dispose of product containers, waste containers, and residues according to local, state, and federal regulations. All recovered materials must be packaged, labeled, transported, and disposed or reclaimed in conformance with applicable laws and in conformance with good engineering practices.

14. TRANSPORT INFORMATION

14.1 DOT/UN ID Number: NA

14.2 DOT/UN Proper Shipping Name: NA

14.3 Transport Hazard Classes: NA

14.4 Packing Group: NA

14.5 Marine Pollutant: No

15. REGULATORY INFORMATION

15.1 EPCRA SARA Title III Classifications

Section 311/312 Hazard Classes:	Fire	N
	Pressure	N
	Reactive	N
	Acute	Y
	Chronic	N
Section 313 Chemicals	None	

15.2 CERCLA/SARA 302 Reportable Quantity: Phosphoric Acid 5,000 lbs
Sodium Hydroxide 1,000 lbs

16. OTHER INFORMATION

MSDS Version: 2/3/2016

The information and recommendations contained in this material safety data sheet are understood to be correct by Van Diest Supply Company. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. Information in this SDS follows different criteria from, and serves a different purpose than the product labeling.