Coastal AgroBusiness, Inc.

Safety Data Sheet

SDS Number: 12054
SDS Prepared: 02/01/2021
SDS Version: 1.2
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Verity™ Systemic Fungicide

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Verity™ Systemic Fungicide

CHEMICAL NAME: Fungicide

EPA REGISTRATION NUMBER: 83416-1-5549

Manufactured for:
Coastal AgroBusiness, Inc.
PO Box 856
Greenville, NC 27835
Phone: 1-800-635-1388

Emergency Telephone Numbers
Chemtrec (24 hours)
1-800-424-9300
Coastal AgroBusiness, Inc. (Weekdays – Eastern Standard Time)
1-800-635-1388

2. HAZARDS IDENTIFICATION SUMMARY

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS-US Classification

Acute Toxicity - Oral 4	H302
Eye Irritant 2A	H319
Aquatic Toxicity - Chronic 3	H412

LABEL ELEMENTS

GHS-US Labeling

Hazard Pictogram (GHS-US)



GHS07

SIGNAL WORD (GHS-US)

WARNING

HAZARD STATEMENTS (GHS-US)

H319 - Causes serious eye irritation.
H302 - Harmful if swallowed.
H412 - Harmful to aquatic life with long-lasting effects.

PRECAUTIONARY STATEMENTS (GHS-US)

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.
P233 - Keep container tightly closed.
P234 - Keep only in the original container.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P270 - Do not eat, drink, or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, and eye protection.

P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
P305+P313+P337+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients:	Percentage by Weight:	CAS No.	PEL/TLV
Phosphorus acid	Proprietary	10294-56-1	NOL/NOL
Potassium hydroxide	Proprietary	1310-58-3	2 mg/m^3 / 2 mg/m^3
Proprietary Formulation Ingredients	100%		

If the Chemical Name/CAS Number is "Proprietary" and/or Weight% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

GENERAL: Have the product container & SDS with you when calling a poison control center or doctor, or going for treatment, if able. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

IF IN EYES: Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do so, after the first 5 minutes - then continue rinsing. If irritation develops or persists, seek medical advice or attention.

IF ON SKIN OR CLOTHING: Take off contaminated clothing, wash before reuse. Wash skin with plenty of soap and water. Seek medical advice/attention if irritation develops or persists.

IF SWALLOWED: DO NOT INDUCE VOMITING. Call a poison control center immediately. Unless advised otherwise by a poison control center or doctor, have person rinse mouth with water, if able.

IF INHALED: Remove to fresh air and ventilate the suspected area. Keep at rest in a position comfortable for breathing. Seek medical attention if difficulty breathing develops, the condition declines, or symptoms persist.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treat symptomatically

NOTES: May cause eye, skin, and respiratory tract irritation.

5. FIRE FIGHTING MEASURES

FLASH POINT (◦F/Test Method): Not applicable

IN CASE OF FIRE: Use carbon dioxide or dry chemical for small fires and water fog or foam (alcohol, polymer, or ordinary) for large fires. Water stream may spread flames.

HAZARDOUS COMBUSTION PRODUCTS: When ignited, emits toxic fumes.

SPECIAL FIRE FIGHTING PROCEDURES: Use alcohol-type or universal-type foams on larger fires. Smaller fires should be extinguished with carbon dioxide or dry chemical. Do not use water or foam directly on the fire. Use self-contained breathing apparatus with fighting any fire in an enclosed area.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Do not use water or foam directly on the fire.

NOTES: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Stop the source of the spill immediately if it is safe to do so. Ventilate the affected area. Wear protective clothing as described in Section 8 of this SDS. Avoid runoff into storm sewers and ditches which lead to waterways. Material should be collected and disposed in a proper manner.

CLEAN-UP MEASURES: Follow federal, state and local regulations for liquid and solid waste disposal. Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container, or liner in full compliance with federal, state, and local regulations. Wear suitable protective equipment.

NOTES: Do not breathe dust. Do not get in eyes, on skin, or on clothing. See section 1 for CHEMTREC emergency phone number. See Section 12 for additional Ecological Information.

7. HANDLING AND STORAGE

HANDLING: Keep out of reach of children. Read label before use. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Use personal protection recommended in Section 8. Do not eat, drink or smoke when using this product. Avoid direct contact with substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid breathing spray mist. Wash hands thoroughly after handling. Take off contaminated clothing and wash before reuse. Wear protective gloves, protective clothing, eye protection and face protection.

STORAGE: Store in a cool, dry, well-ventilated place. Keep in original container tightly closed. Do not reuse empty container. Do not store with food, feed, or other material to be used or consumed by humans or animals. Do not contaminate water supplies.

NOTES: **INCOMPATIBLE MATERIALS -** Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THRESHOLD LIMIT VALUE:	Potassium hydroxide (1310-58-3): ACGIH TLV- Ceiling: 2 mg/m^3
PERMISSIBLE EXPOSURE LIMIT:	Potassium hydroxide (1310-58-3): OSHA PEL- (vacated) Ceiling: 2 mg/m^3
SIGNS AND SYMPTOMS OF EXPOSURE:	May cause eye, skin, and respiratory tract irritation.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:	Preexisting eye, skin, and respiratory disorders may be aggravated by exposure to this product. Unnecessary exposure to this product or any chemical should be avoided.
PRIMARY ROUTES OF ENTRY:	Dermal and Inhalation
ENGINEERING CONTROLS:	Use adequate exhaust ventilation to prevent inhalation of product vapors. Maintain eye wash and quick-drench facilities in the work area.
RESPIRATORY PROTECTION:	Wear a NIOSH/OSHA-approved respirator, approved for use with propionic acid, if necessary.
EYE PROTECTION:	Avoid contact with eyes. Wear safety glasses with side shields per OSHA's eye and face protection regulations in 29CFR 1910.133.
SKIN PROTECTION:	Wear impervious protective clothing, long pants, and a long-sleeved shirt, waterproof gloves (including socks and boots), an apron, or coveralls, as appropriate, to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND PHYSICAL STATE:	Clear liquid
ODOR:	Odorless
SPECIFIC GRAVITY (Water=1):	1.38
VAPOR PRESSURE:	Not determined
VAPOR DENSITY (Air = 1):	Not determined
% VOLATILITY (V/V):	Not determined
BOILING POINT:	Not determined
MELTING POINT:	Not determined
SOLUBILITY:	Miscible
pH:	≈ 5.0
VISCOSITY @ 68°F (20°C):	Not determined

Note: These physical data are typical values based on material tested, but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

STABILITY:	Stable
CONDITIONS TO MAINTAIN STABILITY:	Store in a cool, well-ventilated place away from sources of heat and direct sunlight. Keep container tightly closed. Keep only in original container.
INCOMPATIBILITY:	Strong oxidizing agents.

REACTIVITY:	Not reactive
HAZARDOUS DECOMPOSITION PRODUCTS:	None based on information supplied.
HAZARDOUS POLYMERIZATION:	Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL LD_{50}:	Potassium hydroxide: 284 mg/kg (Rat). Harmful if swallowed. May harm mucosal membranes.
ACUTE DERMAL LD_{50}:	Prolonged contact may cause redness and/or irritation.
INHALATION LC_{50}:	May irritate respiratory tract.
EYE IRRITATION:	Causes serious eye irritation.
CARCINOGENIC POTENTIAL:	This product is not believed to be carcinogenic, teratogenic, or mutagenic as determined by OSHA, NTP, or IARC.
SKIN IRRITATION/SENSITIZATION:	Not classified.

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:	Harmful to aquatic life with long-lasting effects. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment wash waters or rinsate.
AQUATIC TOXICITY	
Gambusia affinis:	LC_{50}: 80 mg/L (static): 96 hours (Potassium hydroxide (CAS#1310-58-3))
MOBILITY:	Partition Coefficient: 0.65/0.83 (Potassium hydroxide (CAS#1310-58-3))
PERSISTENCE/DEGRADABILITY:	Not determined
BIOACCUMULATION:	Not determined

13. DISPOSAL CONSIDERATIONS

DISPOSAL OF WASTES: Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product must be disposed of on-site or at an approved waste disposal facility in accordance with all federal, state, and local regulations.

CONTAMINATED PACKAGING: Non-refillable container. Do not reuse or refill this container.

- *Containers with a capacity of 5 gallons or less:* Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.
- *Containers with a capacity of greater than 5 gallons:* Triple rinse the container (or equivalent) promptly after emptying. Triple rinse as follows: empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

Offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, keep out of the smoke.

CALIFORNIA HAZARDOUS WASTE STATUS: Potassium hydroxide (CAS# 1310-58-3): Toxic, Corrosive

14. TRANSPORTATION INFORMATION

Please see the current shipping paper for the most up-to-date shipping information, including exemptions and special circumstances.

D.O.T., IATA, IMDG:	NOT REGULATED
MARINE POLLUTANT:	This material may meet the definition of a marine pollutant.
U.S. SURFACE FREIGHT CLASSIFICATION:	NMFC 101716, Class 50 (Liquid).

Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

15. REGULATORY INFORMATION

EPA FIFRA INFORMATION

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS) and workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

INTERNATIONAL INVENTORIES:

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Phosphorus acid	*	X		Present		Present	X	Present	X	X
Potassium hydroxide	*	X		Present		Present	X	Present	X	X

LEGEND:

*This product **is** exempt from TSCA because it **is** solely for FIFRA-regulated **use**.
TSCA - United States Toxic Substances Control Act Section B(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substance
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

NFPA & HMIS Hazard Ratings:

NFPA		HMIS	
1 Health	0 Reactivity	1 Health	0 Reactivity
0 Flammability		0 Flammability	C PPE

SARA Hazard Notification/Reporting

SARA Title III Hazard Category: Acute Health: Y Fire: N Sudden Release of Pressure: N
Chronic Health: N Reactive: N

SARA, Title III, Section 313: This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Reportable Quantity (RQ) under U.S. CERCLA:

Chemical name:	Hazardous Substance RQs	Reportable Quantity
Potassium hydroxide CAS# 1310-58-3	1000 lbs.	RQ 1000 lbs. final RQ RQ 454 kg final RQ

Clean Water Act (CWA):

Chemical name:	Reportable Quantities	Toxic Pollutants	Priority Pollutants	Hazardous Substances
Potassium hydroxide	1000 lbs.			X

US State Right-to-Know Regulations:

Chemical name:	New Jersey	Massachusetts	Pennsylvania
Potassium hydroxide	X	X	X

CA Proposition 65: This product does not contain any Proposition 65 chemicals.

16. OTHER INFORMATION

SDS STATUS: Updated
REASON FOR CHANGE: Updated Technical Information
PREPARED BY: Emma Simpson, Product Development Specialist - Chemist

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