

Section 1: Product and Company Information

Product Name(s) VECTROL™ **Product ID #** PN-20039
General Use: Fertilizer/Plant Nutrient
Manufacturer Biofeed Solutions, Inc., PO Box 3434, Glendale, AZ 85311
 O: 623-930-7510 F: 623-930-8598
Emergency Contact: 623-930-7510

Section 2: Hazard Identification

Classification: **Component Name** **CAS#** **Component Range**
 Water and non-hazardous components Mixture 100 %
 See data sheet and/or product label for detailed component information

Signal Word: **Warning**



Hazard Statements: Physical Hazards: No known hazards.
 Health Hazards:
 H303: May be harmful if swallowed.
 H316: Causes mild skin irritation.
 H320: Causes eye irritation.
 Environmental hazards: No known hazards.

Precautionary Statements: *Prevention:*
 P281: Use personal protective equipment as required.
Response:
 P302+P352: IF ON SKIN: wash with plenty of water.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
 P312: Call a poison center/doctor/physician if you feel unwell.
Storage:
 P401: Store in accordance with Section 7 instructions.
Disposal:
 P501: Dispose of contents/container in accordance with local / regional / nation / international regulations.
Other Hazards No additional information available.

Section 3: Composition/Information on Ingredients

Substance:
 Material does not meet the criteria of a substance.

Mixture of substances listed below:	CAS#	EC Number	Component Range
Active Ingredients:			
Potassium Hydroxide K2O (w/v)	1310-58-3	NA	..10.0 - 14.0%
Inert Ingredients:			
Thyme Oil	8007-46-33	NA	..2.0% >
Clove Oil	8000-34-8	NA	..2.0% >

Additional information:
 The specific chemical identity and/or exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of 29 CFR 1910.1200 Trade Secrets.

Section 4: First Aid Measures

Eye Contact	Hold eye open and flush with clean water for 15 – 20 minutes.
Skin Contact	Wash exposed area with water for at least 15 – 20 minutes. Seek medical attention if irritation persists.
Ingestion	Do not induce vomiting due to possibility of aspiration into lungs. Call for emergency medical help if you feel unwell.

Section 5: Firefighting Measures

Flashpoint and Method:	Product does not burn.
Extinguishing Media:	Use water spray, dry chemical, foam or CO ₂ as applicable for burning materials. Use a water spray to cool fire-exposed containers, structures and to protect personnel.
Fire-Fighting Equipment:	Exposed firefighters should wear MSHA/NIOSH approved self-contained breathing apparatus with full-face mask and full protective equipment.
Fire-Fighting Hazards:	Not Applicable.

Section 6: Accidental Release Measures

Personal Precautions:	Isolate release area. Exercise caution regarding personnel safety and exposure by wearing Personal Protective Equipment (PPE) to prevent eye and skin contact.
Environmental Precautions:	No special requirement. For large spills, avoid contaminating the environment via sewers or water sources.
Cleaning Up Methods:	Product is biodegradable. Spills can be covered with an inert, absorbent material. Washed spill site after material pickup is complete. Dispose in accordance with current laws and regulations.

Section 7: Handling and Storage

Handling:	Do not contaminate water, food, or feed by storage or disposal. Wash hands thoroughly after handling.
Storage:	Keep in original container. Do not store in direct sunlight. Store at 41 – 100° F / 5 – 38° C.

Section 8: Exposure Control and Personal Protection

Exposure Control	OSHA PEL: Not established. ACGIH TLV-TWA: Not established.
Engineering Controls:	Not normally required.

PERSONAL PROTECTIVE EQUIPMENT

Respirator:	Not required.
Eyes:	Wear goggles as a safety measure when working with material; use a face shield if splashing is likely.
Gloves:	Wear chemical-resistant gloves to avoid skin contact for prolonged periods.
Clothing:	Wear protective clothing to avoid skin contact.

Section 9: Physical and Chemical Properties

Appearance/Physical State:	Brown Liquid
Upper/Lower Flammability:	Not Applicable
Odor:	Slight clove odor
Vapor Pressure:	Not Determined
Odor Threshold:	Not Determined
Vapor Density (Air=1):	Not Determined
pH:	pH range 10.0 – 13.0
Relative Density:	9.3-10.3 lbs per gallon
Melting/Freezing Point:	Soluble in water
Solubility:	Soluble in water
Initial Boiling Point:	271°F / 133°C
Boiling Range:	Not Applicable
Flash Point:	Not Applicable
Evaporation Rate:	Not Determined
Flammability (solid, gas):	Not Applicable
Partition Coefficient (n-octanol/water):	Not Determined
Auto-ignition Temperature:	Not Applicable
Decomposition Temperature:	Not Determined
Viscosity (cSt , 40° C):	Not Determined

Section 10: Stability and Reactivity

Reactivity:	None known
Chemical Stability:	Stable
Other:	
Hazardous Reactions:	None known
Conditions to Avoid:	High temperature
Hazardous Decomposition:	None known
Hazardous Polymerization:	Will not occur

Section 11: Toxicological Information**Information on likely routes of exposure:**

Inhalation:	Unknown
Ingestion:	May cause irritation.
Skin Contact:	May cause skin irritation.
Eye Contact:	May cause eye irritation.

Information on toxicological effects:

Target Organ:	Not classified
Acute Effects:	Not classified
Chronic Effects:	Not classified
Carcinogenicity:	Not classified

Section 12: Ecological Information

Ecotoxicity: Not Determined
Mobility: Not Determined
Degradability: Not Determined
Bioaccumulation : Not Determined

Section 13: Disposal Consideration

Triple rinse when empty for recycling. Always dispose of container in accordance with local, state, and/or federal regulations.

Section 14: Transport Information

DOT: Not regulated by U.S. DOT as hazardous material.

UN number: Not applicable
UN proper shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group: Not applicable
Environmental hazards: Not applicable
Special precautions for user: Not applicable

IATA: Not dangerous goods

IMDG: Not dangerous goods

Section 15: Regulatory Information

TSCA Status
SARA 311/312 Reporting Categories

All ingredients are listed on TSCA and DSL.
None

CAUTION: KEEP OUT OF REACH OF CHILDREN.

FIRST AID MEASURES

Eye Contact Hold eye open and flush with clean water for 15 – 20 minutes.
Skin Contact Wash exposed area with water for 15 – 20 minutes. Seek medical attention if irritation persists.
Ingestion Do not induce vomiting due to possibility of aspiration into lungs. Call for emergency medical help if needed.

PRECAUTIONARY STATEMENTS:

Health: May be harmful if swallowed. Causes mild skin irritation. Causes eye irritation.

Prevention: Use Personal Protective Equipment (PPE) – safety goggles or face shield, chemical-resistant gloves, and protective clothing to avoid skin contact.

Section 16: Other Information

Department Issuing SDS Health and Safety

HMIS Rating 0-0-0

Condition of Sale:

The information herein is believed to be accurate and reliable. Buyer and user assume all liability from use of this material. Follow label directions carefully. Timing, method of application, weather, plant, crop or turf conditions and other factors are beyond the control of the seller.

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