

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012) Date of issue: 06/01/2004 Revision date: 11/30/2018 Supersedes: n/a Version: 2.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1.	Product identifier	
Product	name	: Bacterial Inoculant
Trade name		: Vertex-IF Liquid

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Natural fertilizer

Use advised against

: None identified

#### 1.3. Details of the supplier of the safety data sheet

TerraMax, Inc 815 W 106<sup>th</sup> St. Bloomington, MN 55420

Tel: 1-952-657-5592

#### 1.4. Emergency telephone number

Emergency number

: 1-800-535-5053 (24 HOURS)

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Eye Irrit. 2A H319 Full text of H-phrases: see section 16

#### 2.2. Label elements

#### GHS-US labelling

Hazard pictograms (GHS-US)

	GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H319 - Causes serious eye irritation
Precautionary statements (GHS-US)	<ul> <li>P264 - Wash hands thoroughly after handling</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> </ul>

P337+P313 - If eye irritation persists: get medical advice/attention

#### 2.3. Other hazards

Prolonged or repeated contact to skin may cause mild irritation.

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

#### **SECTION 3: Composition/Information on ingredients**

### 3.1. Substance

Not applicable

3.2. Mixture

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Name	Product identifier	%
Liquid Humate	(CAS No) Proprietary	10
Azospirillum		.011% w/w
Pseudomonas		.012% w/w
Pantoea eucalypti		.012% w/w

Some constituent(s) and/or exact percentage(s) are being withheld as trade secrets.

### **SECTION 4: First aid measures**

4.1.	Description of first aid measures	
First-aid	l measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid	measures after inhalation	: Allow victim to breathe fresh air. Allow the victim to rest.
First-aid	d measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid	d measures after eye contact	: 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.
First-aid	d measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2.	Most important symptoms and effect	s, both acute and delayed
Sympto	ms/injuries after skin contact	: Exposure to skin or mucous membranes may produce irritation, absorption of skin oils, smarting, redness, or contact dermatitis.
Sympto	ms/injuries after eye contact	: Causes serious eye irritation. Exposure may cause irritation and reddening of the eye.
<b>4.3.</b> No add	Indication of any immediate medical itional information available	attention and special treatment needed
SECT	ION 5: Firefighting measures	
5.1.	Extinguishing media	
Suitable	e extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuita	ble extinguishing media	: Do not use a heavy water stream.
5.2.	Special hazards arising from the sul	stance or mixture
No add	itional information available	
5.3.	Advice for firefighters	
Firefigh	ting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protect	on during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECT	ION 6: Accidental release meas	ures
6.1.	Personal precautions, protective eq	ipment and emergency procedures
6.1.1.	For non-emergency personnel	
Emerge	ency procedures	: Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
	ve equipment	: Equip cleanup crew with proper protection.
Emerge	ency procedures	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
6.2.	Environmental precautions	
Prevent	entry to sewers and public waters.	
6.3.	Methods and material for containme	it and cleaning up
Method	s for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Dilute remaining with plenty of water.
6.4.	Reference to other sections	

#### Reference to other sections 6.4.

See Heading 8. Exposure controls and personal protection.

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SECTION 7: Handling and stora	age
7.1. Precautions for safe handling	
Precautions for safe handling	<ul> <li>Provide good ventilation in process area to prevent formation of vapor. Avoid contact with skin and eyes. Wear personal protective equipment. When not in use, keep containers tightly closed.</li> </ul>
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, ir	ncluding any incompatibilities
Storage conditions	: Keep only in the original container in a cool, well-ventilated place. Keep containers closed when not in use. Avoid freezing.
ncompatible materials	: Strong acids.
7.3. Specific end use(s) No additional information available	
SECTION 8: Exposure controls/	/personal protection
3.1. Control parameters	
No additional information available	
No additional information available 3.2. Exposure controls	: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.
No additional information available <b>8.2. Exposure controls</b> Appropriate engineering controls	
No additional information available 8.2. Exposure controls Appropriate engineering controls	exposure.
No additional information available <b>8.2. Exposure controls</b> Appropriate engineering controls Personal protective equipment	exposure.
No additional information available	exposure. : Protective goggles. Gloves.

### CTION 9: Physical and chemical properties

9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Color	: Dark brown
Odor	: Mild characteristic odor
Odor threshold	: No data available
pH	: 6.9 - 8.4
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 212 °F
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.003 (water=1)
Water solubility	: Complete
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: Not applicable (water-like)
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Explosive properties	: No data available
Oxidizing properties	: Not applicable (No oxidizing agent)
Explosion limits	: Not applicable

#### 9.2. Other information

Volatiles

: None

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available.

#### 10.2. Chemical stability

Stable under normal operating conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Avoid low temperatures below freezing point.

#### 10.5. Incompatible materials

Strong acids.

#### 10.6. Hazardous decomposition products

Thermal decomposition: Carbon monoxide. Carbon dioxide. Alkali oxides.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity

: Not classified

Liquid Humate			
LD50 oral rat	> 5000 mg/kg		
LD50 dermal rabit	> 7500 mg/kg		
Skin corrosion/irritation	: Not classified		
Serious eye damage/irritation	: Causes serious eye irritation.		
Respiratory or skin sensitization	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		
Specific target organ toxicity (single exposure)	: Not classified		
Specific target organ toxicity (repeated exposure)	: Not classified		
Aspiration hazard	: Not classified		
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.		

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

Not established.

#### 12.3. Bioaccumulative potential

Not established.

#### 12.4. Mobility in soil

No additional information available

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12.5.	Other adverse effects		
Effect on	n ozone layer	:	No additional information available
Effect on	n the global warming	:	No additional information available
Other inf	formation	: .	Avoid release to the environment.
SECTI	ON 13: Disposal consi	derations	

#### 13.1. Waste treatment methods

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

#### **SECTION 14: Transport information**

In accordance with DOT	
Not regulated for transport	
Additional information	
Other information	: No supplementary information available.

#### ADR

No additional information available

## No additional information available

Transport by sea

#### Air transport

No additional information available

#### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### 15.2. International regulations

#### CANADA

Liquid Humate Listed on the Canadian NDSL (Non-Domestic Substances List)

#### **EU-Regulations**

Liquid Humate

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

#### Not classified

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

#### 15.2.2. National regulations

#### Liquid Humate

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on CICR (Turkish Inventory and Control of Chemicals)

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

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### **SECTION 16: Other information**

Other information	: None.	
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A	
H319	Causes serious eye irritation	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product