

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Version: 1.0

Date of issue: 8/3/2016 Revision date: n/a Supersedes: n/a

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

### 1.1. Product identifier

Product form : Mixture

Product name : Bacterial Wheat Inoculant

Trade name : MicroAZ-ST Dry™ for Wheat

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

### 1.2.1. Relevant identified uses

Natural fertilizer

### 1.2.2. Uses advised against

None identified

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

Manufacturer: 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

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

Comb. Dust

Carc. 1A H350

Full text of H-statements: see section 16

## Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H232 – May form combustible dust concentrations in air

Precautionary statements (GHS-US) : H350 – May cause cancer

P201 – Obtain special instructions before use

P202 – Do not use until all safety precautions have been read and understood P280 - Wear protective gloves/protective clothing/eye protection/face protection

P308+P313 – If exposed or concerned: Get medical advice/attention

P405 - Store locked up

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, and/or international regulation

### 2.3. Other hazards

Prolonged or repeated contact to skin may cause mild irritation. Contact to eye may cause mild eye irritation

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

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%
Humate	(Cas No.) Proprietary	90-95
Quartz	(Cas No.) 14808-60-7	< 6
Limestone	(Cas No.) 1317-65-3	4-6
Azospirillum		.042% 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 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 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 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 measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact : Exposure to skin or mucous membranes may produce irritation, absorption of skin oils,

smarting, redness, or contact dermatitis.

Symptoms/injuries after eye contact : Exposure may cause reversible irritation and reddening of the eye.

Symptoms/injuries after inhalation Can cause respiratory tract irritation

# 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : This product is not flammable.

Explosion hazard : Avoid generation of dust; fine dust dispersed in air in sufficient concentration, and in the

presence of an ignition source is a potential dust explosion hazard.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

refer to section 8: Exposure-controls refer to /personal protection

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Collect as much as possible in clean container for (preferably) re-use or disposal. Spills of this

product present a serious slipping hazard. Dust deposits should not be allowed to accumulate on surfaces as these may form an explosive mixture if they are released into the atmosphere in

sufficient concentration.

6.1.1. For non-emergency personnel

Emergency procedures : Avoid contact with skin and eyes. Do not breath dust. Evacuate unnecessary personnel.

Protective Equipment : Do not attempt to take action without suitable protective equipment. For further information

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required. For further information refer to section 8:

Exposure-controls refer to /personal protection

Emergency procedures : Contain for reuse if possible. Sweep and scoop spilled material into clean, dedicated

equipment. Collect all waste in suitable and labelled containers and dispose according to local

legislation.

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### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Do not allow large quantities to spread into the environment. Do not discharge into drains or rivers.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Recover mechanically the product. Wet clean or vacuum up solids. Sweep or shovel spills into appropriate container for disposal. Wash contaminated area with large amounts of water. Avoid raising powdered materials into airborne dust. Avoid dispersal of dust in the air (i.e. Cleaning dust surfaces with compressed air), Non-sparking tools should be used.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling

: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid raising powdered materials into airborne dust. Avoid contact with skin and eyes. Do not breath dust. Keep container closed when not in use. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixture operations. Provide adequate precautions, such as electrical grounding and bonding or inert atmospheres.

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, including 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.

Technical measures

:

Incompatible materials

Strong acids.

## 7.3. Specific end use(s)

No additional information available

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

Quartz (14808-60-7)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable fraction)
OSHA	Remark (OSHA)	(3) See Table Z-3

Limestone (1317-65-3		
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)

## 8.2. Exposure controls

Appropriate engineering controls

Ensure good ventilation of the work station. Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area. Use only appropriately classified electrical equipment and powred industrial trucks.

Personal protective equipment

: Protective goggles. Gloves. Dust mask.



Hand protection

: Wear protective gloves.

Eye protection

: Chemical goggles or safety glasses. It is strongly recommended contact lenses not be worn when working with chemicals because they may increase the severity of an eye injury.

Respiratory protection

: In case of insufficient ventilation, wear suitable respiratory equipment.

Other information

: Do not eat, drink or smoke during use.

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# **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical proper
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Physical state : Solid Appearance : Powder Colour : Gray-black Odour : Odourless Odour threshold : No data available : 6.0-7.0 (Slurry) Relative evaporation rate (butyl acetate=1) : No data available Melting point : No data available Freezing point : No data available Boiling point Not applicable : Not applicable Flash point Auto-ignition temperature : Not applicable : No data available Decomposition temperature Flammability (solid, gas) : No data available : No data available Vapour pressure Relative vapour density at 20 °C : No data available Relative density : No data available Insoluble in water

Solubility Log Pow : No data available Log Kow : No data available Viscosity, kinematic : Not applicable Viscosity, dynamic : Not applicable Explosive properties : No data available

Oxidising properties : Not applicable (No oxidizing agent)

Explosive limits : No data available

9.2. Other information

Volatiles · None

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Stable and non-reactive under normal operating conditions.

#### 10.2. Chemical stability

Stable under normal operating conditions.

#### Possibility of hazardous reactions 10.3.

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**

#### Information on toxicological effects 11.1.

Acute toxicity : Not classified

Quartz (14808-60-7)		
IARC group	1 – Carcinogenic to humans	
National Toxicology Program (NTP) Satus	2 – Know Human Carcinogens	
Skin corrosion/irritation	: Not classified	
Serious eve damage/irritation	· Not classified	

Serious eye damage/irritation Respiratory or skin sensitisation Not classified Germ cell mutagenicity : Not classified Carcinogenicity : May cause cancer.

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Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified

exposure)

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

### 12.5. Other adverse effects

Effect on ozone layer : No additional information available. Effect on the global warming : No additional information available. Other information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

### 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 ADR / RID / IMDG / IATA / ADN

## 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

# 14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

**IMDG** 

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

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14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

14.6.1. Overland transport14.6.2. Transport by sea14.6.3. Air transport

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14.6.4. Inland waterway transport

Carriage prohibited (ADN) : No Not subject to ADN : No

14.6.5. Rail transport

Carriage prohibited (RID) : No

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

# **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

Humate		
Listed on the Canadian NDSL (Non-Domestic Substances List)		
Quartz (14808-60-7)		
Listed on the Canadian DSL (Domestic Substances List)		
WHMIS Classification Class D Division 2 Subdivision A - Very toxic material causing other toxic effects		
Limestone (1317-65-3)		
Listed on the Canadian NDSL (Non-Domestic Substances List)		
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects	

# **EU-Regulations**

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Humate	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Quartz (14808-60-7)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Limestone (1317-65-3)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	

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

Not classified

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

### 15.2.2. National regulations

### Humate

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

### Quartz (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed as carcinogen on NTP (National Toxicology Program)

Listed on the Canadian IDL (Ingredient Disclosure List)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

### Limestone (1317-65-3)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

Listed on CICR (Turkish Inventory and Control of Chemicals)

### 15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

Quartz (14808-60-7)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
Yes	No	No	No	

# **SECTION 16: Other information**

Other information

Refer to NFPA 654, Standard for the Prevention of Fire and Dust explosions from the Manufctureing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

Carc. 1A	Carcinogenicity, Category 1A
Comb. Dust	Combustible dust
H232	May form combustible dust concentrations in air
H350	May cause cancer

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

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