

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 12/04/2016 Revision date: 5/5/2023 Supersedes: n/a

Version: 1.0

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

Product form Product name Trade name : Mixture

: Bacterial Pea, Lentil and Vetch Inoculant

: Optimum Liquid for Pea, Lentil and Vetch

#### 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

No additional information available

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

Manufacturer: TerraMax, Inc 3650 Dodd Road Eagan, MN. 55123

Tel: 1-952-657-5592

#### 1.4. Emergency telephone number

Emergency Number 1-800-535-5035 (24 hours)

## **SECTION 2: Hazards identification**

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

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

Serious eye damage/eye irritation, Category 2 H319

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)

Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLP)

- GHS07
- : Warning
- : H319 Causes serious eye irritation
- P264 Wash hands, forearms and face thoroughly after handling
   P280 Wear protective gloves/protective clothing/eye protection/face protection
   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/attention

#### 2.3. Other hazards

Prolonged or repeated contact to skin may cause mild irritation.

Safety Data Sheet

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

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

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Liquid Humate	(CAS No) Proprietary	10	Eye Irrit. 2, H319
Azospirillum		.011% w/w	
Rhizobium		.010% w/w	

Full text of H-statements: see section 16

# **SECTION 4: First aid measures**

4.1. D	Description of first aid measures		
First-aid me	easures general	:	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid me	easures after inhalation	:	Allow victim to breathe fresh air. Allow the victim to rest.
First-aid me	easures after skin contact	:	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid me	easures 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 me	easures after ingestion	:	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. N	Most important symptoms and effect	:ts,	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	:	Causes serious eye irritation. Exposure may cause irritation and reddening of the eye.
	ndication of any immediate medical otomatically.	l at	tention and special treatment needed
SECTIO	N 5: Firefighting measures		
5.1. E	Extinguishing media		
Suitable ex	tinguishing media	:	Use extinguishing media appropriate for surrounding fire.
Unsuitable	extinguishing media	:	Do not use a heavy water stream.
5.2. S	Special hazards arising from the sul	bst	ance or mixture
No addition	nal information available		
5.3. A	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.
Protection of	during firefighting	:	Do not enter fire area without proper protective equipment, including respiratory protection.
SECTIO	N 6: Accidental release meas	su	res
6.1. P	Personal precautions, protective eq	uip	ment and emergency procedures
6.1.1. F	For non-emergency personnel		
-	y procedures	:	Evacuate unnecessary personnel.
6.1.2. F	For emergency responders		
Protective			Equip cleanup crew with proper protection.
	y procedures		Contain any spills with dikes or absorbents to prevent migration and entry into sewers or
Linergency	y procedules	•	streams.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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

# Safety Data Sheet

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

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

# **SECTION 7: Handling and storage**

#### SECTION 7. Handling and storage

	afe handling			Precautions for safe handling	7.1.	
	<ul> <li>Provide good ventilation in process area to prevent formation of vapour. Avoid contact w and eyes. Wear personal protective equipment. When not in use, keep containers tightly closed.</li> </ul>		and eyes. Wear personal protective equipme	ns for safe handling	Precaution	
areas with	: Do not eat, drink or smoke when using this product. Wash hands and other exposed are mild soap and water before eating, drinking or smoking and when leaving work.	· · · · · · · · · · · · · · · · · · ·	, <b>0</b> 1	ieasures	Hygiene n	
	fe storage, including any incompatibilities		ding any incompatibilities	Conditions for safe storage, including	7.2.	
sed when	<ul> <li>Keep only in the original container in a cool, well-ventilated place. Keep containers close not in use. Avoid freezing.</li> </ul>	entilated place. Keep containers closed		Inditions	Storage co	
	: Strong acids.		: Strong acids.	ble materials	Incompati	
	s)			Specific end use(s)	7.3.	
	ailable			nal information available	No additio	
	e controls/personal protection		sonal protection	N 8: Exposure controls/perso	SECTIO	
ntly areas with	<ul> <li>and eyes. Wear personal protective equipment. When not in use, keep containers tightly closed.</li> <li>Do not eat, drink or smoke when using this product. Wash hands and other exposed are mild soap and water before eating, drinking or smoking and when leaving work.</li> <li>fe storage, including any incompatibilities <ul> <li>Keep only in the original container in a cool, well-ventilated place. Keep containers close not in use. Avoid freezing.</li> <li>Strong acids.</li> </ul> </li> </ul>	hen not in use, keep containers tightly t. Wash hands and other exposed area oking and when leaving work.	<ul> <li>and eyes. Wear personal protective equipmer closed.</li> <li>Do not eat, drink or smoke when using this p mild soap and water before eating, drinking of ding any incompatibilities</li> <li>Keep only in the original container in a cool, not in use. Avoid freezing.</li> <li>Strong acids.</li> </ul>	neasures	Hygiene n 7.2. Storage co Incompatil 7.3. No additio	

#### 8.1. Control parameters

#### 8.2. Exposure controls

Appropriate engineering controls

Personal protective equipment

: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.



Hand protection Eye protection : Wear protective gloves.

Other information

- : 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.Do not eat, drink or smoke during use.

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

9.1. Information on basic physical and	I chemical properties
Physical state	: Liquid
Colour	: Dark Brown
Odour	: Mild characteristic odour
Odour threshold	: No data available
рН	: 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	: > 100 °C
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.003 (water=1)
Solubility	: Miscible with water

# Safety Data Sheet

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

Log Pow	: No data available
Viscosity, kinematic	: Not applicable (water-like)
Viscosity, dynamic	: No data available
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

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 (Based on available data, the classification criteria are not met)

Humic acids, potassium salts (68514-28-3)				
LD50 oral rat	> 5000 mg/kg			
Skin corrosion/irritation	: Not classified			
	(Based on available data, the classification criteria are not met)			
Serious eye damage/irritation	: Causes serious eye irritation.			
Respiratory or skin sensitisation	: Not classifie			
	(Based on available data, the classification criteria are not met)			
Germ cell mutagenicity	: Not classifie			
	(Based on available data, the classification criteria are not met)			
Carcinogenicity	: Not classified			
	(Based on available data, the classification criteria are not met)			
Reproductive toxicity	: Not classified			
	(Based on available data, the classification criteria are not met)			
Specific target organ toxicity (single exposure)	: Not classified			
	(Based on available data, the classification criteria are not met)			
Specific target organ toxicity (repeated	: Not classifie			
exposure)	(Based on available data, the classification criteria are not met)			
Aspiration hazard	: Not classified			
	(Based on available data, the classification criteria are not met)			

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

# Safety Data Sheet

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

#### 12.2. Persistence and degradability

Not established

#### 12.3. Bioaccumulative potential

Not established

12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

#### 12.6. Other adverse effects

No additional information available

# **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.

5/7

### **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

: Not applicable
: Not applicable
: Not applicable
: Not applicable
: Not applicable
: Not applicable : Not applicable
••
: Not applicable
: Not applicable

# Safety Data Sheet

according to	Regulation (EC) No. 1907/2006 (REACH) w	ith i	ts amendment Regulation (EU) 2015/830
Marine p	ollutant	:	No
Other info	ormation	:	No supplementary information available
14.6.	Special precautions for user		
14.6.1.	Overland transport		
14.6.2.	Transport by sea		
14.6.3.	Air transport		
14.6.4.	Inland waterway transport		
Carriage	prohibited (ADN)	:	No
Not subje	ect to ADN	:	No
14.6.5.	Rail transport		
Carriage	prohibited (RID)	:	No
14.7. Not appli		ex l	I of MARPOL 73/78 and the IBC Code

# **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. **EU-Regulations**

The following a state the second state the second state of the sec	g to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6,	name
3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

#### Germany

VwVwS Annex reference	: Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 4)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: Humic acids, potassium salts is listed
SZW-lijst van mutagene stoffen	: Humic acids, potassium salts is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed
15.2. Chemical safety assessment	

No additional information available

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

Abbreviations and acronyms:		
PBT	Persistent Bioaccumulative Toxic	
vPvB	Very Persistent and Very Bioaccumulative	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
IATA	International Air Transport Association	

# Safety Data Sheet

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

IMDG	International Maritime Dangerous Goods	
SDS	Safety Data Sheet	
LD50	Median lethal dose	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rai	
Sources of Key data : CLP Inventory. Supplier information.		
Full text of R-, H- and EUH-statements:		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H319	Causes serious eve 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