

## Rhizolizer Duo In-Furrow for Cotton

Version number: 1.0

### SECTION 1: Identification

#### 1.1 Product identifier

**Trade name** Rhizolizer Duo In-Furrow for Cotton

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

**Relevant identified uses** Fertilizer

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

Locus Agricultural Solutions  
30600 Aurora Rd. Ste. 180  
Solon, Ohio, 44139  
United States

Telephone: (440) 561-0812  
e-mail: SDS@locusfs.com

#### 1.4 Emergency telephone number

Poison center		
Country	Name	Telephone
United States	CHEMTREC USA	(800) 424-9300

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

**Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)**

This mixture does not meet the criteria for classification.

#### 2.2 Label elements

**Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)**

Not required.

#### 2.3 Other hazards

**Results of PBT and vPvB assessment**

Does not contain a PBT-/vPvB-substance in a concentration of  $\geq 0.1\%$ .

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture).

### 3.2 Mixtures

#### Description of the mixture

Ingredients			
Name of substance	Identifier	Wt%	Classification acc. to GHS
industrial secret		10 - < 25	-
Trichoderma harzianum	CAS No 67892-31-3	0.3 - < 5	-
Trichoderma virens	CAS No 9073-49-8	0.3 - < 5	-
Bacillus amyloliquefaciens	CAS No 68038-60-8	0.3 - < 5	-

For full text of H-phrases: see SECTION 16

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

## SECTION 4: First-aid measures

### 4.1 Description of first-aid measures

#### General notes

Self-protection of the first aider.

In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following inhalation

Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

#### Following ingestion

Rinse mouth. Do not induce vomiting.

Get medical advice/attention if you feel unwell.

#### Notes for the doctor

None.

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

This information is not available.

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

None.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

water, foam, dry extinguishing powder

#### Unsuitable extinguishing media

water jet

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

Hazardous decomposition products: Section 10.

#### Hazardous combustion products

carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

Non-combustible.

Keep containers cool with water spray.

In case of fire and/or explosion do not breathe fumes.

Coordinate firefighting measures to the fire surroundings.

Do not allow firefighting water to enter drains or water courses.

Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance.

#### Special protective equipment for firefighters

chemical protection suit, Wear self-contained breathing apparatus

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Ventilate affected area.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

#### For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water.

Retain contaminated washing water and dispose of it.

If substance has entered a water course or sewer, inform the responsible authority.

## 6.3 Methods and material for containment and cleaning up

### Advice on how to clean up a spill

Collect spillage.

Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.).

### Appropriate containment techniques

Use of adsorbent materials.

### Other information relating to spills and releases

Place in appropriate containers for disposal.

Ventilate affected area.

## 6.4 Reference to other sections

Hazardous combustion products: see section 5.

Personal protective equipment: see section 8.

Incompatible materials: see section 10.

Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with eyes.

Do not breathe vapor/spray.

### Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.

### Measures to protect the environment

Avoid release to the environment.

### Advice on general occupational hygiene

Avoid prolonged exposure.

Observe good industrial hygiene practices.

Do not eat, drink and smoke in work areas.

Wash hands after use.

Preventive skin protection (barrier creams/ointments) is recommended.

Remove contaminated clothing and protective equipment before entering eating areas.

Routinely wash work clothing and protective equipment to remove contaminants.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Flammability hazards

None.

#### Incompatible substances or mixtures

Incompatible materials: see section 10.

#### Protect against external exposure, such as

frost

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## **Consideration of other advice**

Keep away from food, drink and animal feedingstuffs.

## **Ventilation requirements**

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

If exposure limits have not been established, maintain airborne levels to an acceptable level.

## **Specific designs for storage rooms or vessels**

Keep container tightly closed and in a well-ventilated place.

## **Packaging compatibilities**

Keep only in original container.

## **7.3 Specific end use(s)**

No information available.

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

### **8.1 Control parameters**

#### **Occupational exposure limit values (Workplace Exposure Limits)**

No constituent of the product currently has a known exposure limit.

### **8.2 Exposure controls**

#### **Appropriate engineering controls**

Use local and general ventilation.

#### **Individual protection measures (personal protective equipment)**

##### **Eye/face protection**

Use safety goggle with side protection.

Wear face-shield.

##### **Hand protection / Skin protection**

Wear appropriate chemical resistant gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### **Body protection**

Wear suitable protective clothing.

##### **Respiratory protection**

Wear suitable respiratory protection.

##### **Environmental exposure controls**

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	liquid
<b>Color</b>	colorless
<b>Odor</b>	odorless
<b>Odor threshold</b>	not determined

#### Other safety parameters

<b>pH (value)</b>	not determined
<b>Melting point/freezing point</b>	not determined
<b>Boiling point or initial boiling point and boiling range</b>	~100 °C
<b>Flash point</b>	not determined
<b>Evaporation rate</b>	not determined
<b>Flammability (solid, gas)</b>	not relevant (fluid)
<b>Explosive limits</b>	not determined
<b>Vapor pressure</b>	~23 hPa

Density	not determined
Relative vapour density	this information is not available

#### Solubility(ies)

Water solubility	miscible in any proportion
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#### Partition coefficient

n-octanol/water (log KOW)	not determined
Auto-ignition temperature	not determined

<b>Decomposition temperature</b>	not relevant
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#### Viscosity

<b>Kinematic viscosity</b>	not determined
<b>Dynamic viscosity</b>	not determined

<b>Explosive properties</b>	none
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<b>Oxidizing properties</b>	none
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<b>Information for relevant hazard classes according to GHS</b>	hazard classes acc. to GHS (physical hazards): not relevant
<b>9.2 Other information</b>	there is no additional information

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

There is no additional information.

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Classification procedure

If not otherwise specified the classification is based on:  
Ingredients of the mixture (additivity formula).

This mixture does not meet the criteria for classification.

#### Acute toxicity

Test data are not available for the complete mixture.

#### Skin corrosion/irritation

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### Serious eye damage/eye irritation

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

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### **Respiratory or skin sensitization**

#### **Skin sensitization**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### **Respiratory sensitization**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### **Germ cell mutagenicity**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### **Carcinogenicity**

##### **IARC Monographs**

None of the ingredients are listed.

##### **National Toxicology Program (United States)**

None of the ingredients are listed.

##### **OSHA Carcinogens**

None of the ingredients are listed.

#### **Reproductive toxicity**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### **Specific target organ toxicity - single exposure**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### **Specific target organ toxicity - repeated exposure**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

### **11.2 Other information**

There is no additional information.



## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity (acute)

Test data are not available for the complete mixture.

#### Aquatic toxicity (chronic)

Test data are not available for the complete mixture.

### 12.2 Persistence and degradability

#### Biodegradation

No data available.

#### Persistence

No data available.

### 12.3 Bioaccumulative potential

Test data are not available for the complete mixture.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of  $\geq 0.1\%$ .

#### Remarks

Keep away from drains, surface and ground water.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Dispose of this material and its container to hazardous or special waste collection point.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packages

Completely emptied packages can be recycled.

Completely emptied containers can be recycled.

Handle contaminated packages/containers in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions.

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## SECTION 14: Transport information

14.1	UN number	not assigned
14.2	UN proper shipping name	-
14.3	Transport hazard class(es)	-
14.4	Packing group	-
14.5	Environmental hazards	-
14.6	Special precautions for user	-
14.7	Transport in bulk according to IMO instruments	-

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### National regulations (United States)

##### Superfund Amendment and Reauthorization Act (SARA TITLE III )

##### The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

None of the ingredients are listed

##### Specific Toxic Chemical Listings (EPCRA Section 313)

None of the ingredients are listed

##### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

##### List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

None of the ingredients are listed

##### Clean Air Act

None of the ingredients are listed

##### Right to Know Hazardous Substance List

##### Toxic or Hazardous Substance List (MA-TURA)

None of the ingredients are listed

##### California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

None of the ingredients are listed

##### Drug precursors, Chemicals designated within the Controlled Substances Act, 21 U.S.C. § 802, paragraphs 34 (list I) and 35 (list II)

None of the ingredients are listed

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## SECTION 16: Other information, including date of preparation or last revision

Date of preparation: 2023-08-15

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IARC	International Agency for Research on Cancer
IARC Monographs	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
vPvB	Very Persistent and very Bioaccumulative

### Classification procedure

Physical and chemical properties.

Health hazards.

Environmental hazards.

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### Disclaimer

This information is based upon the present state of our knowledge.

This SDS has been compiled and is solely intended for this product.