

## Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 04/22/2016 Revision date: 04/22/2016 Supersedes: 04/22/2016 Version: 3.0

### **SECTION 1: Identification**

#### 1.1. Product identifier

Product form : Mixture
Product group : Trade product

Registration Number : 2013042B Fertilizers Act

#### 1.2. Recommended use and restrictions on use

Recommended uses and restrictions : Fertilizers

#### 1.3. Supplier

Alltech Crop Science 3031 Catnip Hill Road 40356 Nicholasville - USA T 859-885-9613 - F 859-887-6736 RegulatoryACS@alltech.com

#### 1.4. Emergency telephone number

Emergency number : 1-800-424-9300

#### **SECTION 2: Hazards identification**

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

#### Classification (GHS-CA)

Not classified

### 2.2. GHS Label elements, including precautionary statements

#### **GHS-CA labelling**

No labelling applicable

#### 2.3. Other hazards

No additional information available

## 2.4. Unknown acute toxicity (GHS-CA)

No data available

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

#### 3.1. Substances

Not applicable

## 3.2. Mixtures

Name	Product identifier	%	Classification (GHS-CA)
LACTOBACILLUS EXTRACT FILTRATE		>= 80	Not classified
YUCCA SCHIDIGERA STEM EXTRACT	(CAS No) 223749-05-1	2.5 - 5	Not classified
Zinc sulfate	(CAS No) 7733-02-0	2.5 - 5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Manganese sulfate, monohydrate	(CAS No) 10034-96-5	2.5 - 5	STOT RE 2, H373 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. Call a physician immediately.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/injuries after eye contact : Serious damage to eyes.

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#### 4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Treat symptomatically.

#### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

#### 5.2. Unsuitable extinguishing media

No additional information available

#### 5.3. Specific hazards arising from the hazardous product

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

#### 5.4. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

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

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

No additional information available

## 6.2. Methods and materials for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

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

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal

protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

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

Storage conditions : Store in a well-ventilated place. Keep cool.

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

### 8.1. Control parameters

No additional information available

## 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

#### 8.3. Individual protection measures/Personal protective equipment

Hand protection : Protective gloves. Eye protection : Safety glasses.

Skin and body protection : Wear suitable protective clothing.

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

Environmental exposure controls : Avoid release to the aquatic environment.

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

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : No data available
Colour : No data available
Odour : No data available
Odour threshold : No data available
pH : No data available
pH solution : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Relative evaporation rate (ether=1) : No data available

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Melting point : Not applicable Freezing point : No data available : No data available Boiling point No data available Flash point Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : Not applicable Vapour pressure : No data available Vapour pressure at 50 °C : No data available Relative vapour density at 20 °C : No data available Relative density : No data available Relative density of saturated gas/air mixture : No data available Density : No data available Relative gas density : No data available : No data available Solubility : No data available Log Pow : No data available Log Kow Viscosity, kinematic : No data available Viscosity, kinematic (calculated value) (40 °C) : No data available : No data available Explosive properties Oxidising properties : No data available : No data available Explosive limits Lower explosive limit (LEL) : No data available Upper explosive limit (UEL) : No data available

### 9.2. Other information

No additional information available

#### SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use.

Conditions to avoid : None under recommended storage and handling conditions (see section 7).

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

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

## **Grain-Set**

LD50 oral rat 1027 mg/kg

LACTOBACILLUS EXTRACT FILTRATE	
LD50 oral rat	> 5000 ml/kg
LD50 dermal rat	> 5000 mg/kg
LC50 inhalation rat (ppm)	2.05 ppm
- W. (	

### Zinc sulfate (7733-02-0)

LD50 oral rat 1000 - 2000 mg/kg (Rat)

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure)

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: Not classified

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Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

Manganese sulfate, monohydrate (10034-96-5)		
LC50 fish 2	33.8 mg/l (LC50; 96 h)	
EC50 Daphnia 1	8.28 mg/l (EC50; 48 h)	
Zinc sulfate (7733-02-0)		
EC50 Daphnia 1	280 μg/l (LC50; Other; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)	

#### 12.2. Persistence and degradability

Manganese sulfate, monohydrate (10034-96-5)		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
Zinc sulfate (7733-02-0)		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	

### 12.3. Bioaccumulative potential

Zinc sulfate (7733-02-0)	
BCF fish 1	59 - 242 (BCF)
Bioaccumulative potential	Bioaccumable.

Not applicable

### 12.4. Mobility in soil

ThOD

No additional information available

### 12.5. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

## 13.1. Disposal methods

No additional information available

## **SECTION 14: Transport information**

## 14.1. Basic shipping description

In accordance with TDG

**TDG** 

Not regulated for transport

### **DOT**

DOT NA no. : UN3082 UN-No.(DOT) : 3082

Packing group (DOT) : III - Minor Danger

DOT Symbols : G - Identifies PSN requiring a technical name

Transport document description : UN3082 Environmentally hazardous substances, liquid, n.o.s. (Contains zinc sulfate,

manganese sulfate), 9, ÍII

Proper Shipping Name (DOT) : Environmentally hazardous substances, liquid, n.o.s.

Contains zinc sulfate, manganese sulfate

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Contains Statement Field Selection (DOT)

Class (DOT) : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

Division (DOT)

Hazard labels (DOT) - Class 9 (Miscellaneous dangerous materials)



Dangerous for the environment : No

DOT Special Provisions (49 CFR 172.102)

: 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies

146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination

173 - An appropriate generic entry may be used for this material

335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leakproof when used as bulk packaging

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672)

T4 - 2.65 178.274(d)(2) Normal...... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling

A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used **TP29** provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the **MAWP** 

DOT Packaging Exceptions (49 CFR 173.xxx) : 155 DOT Packaging Non Bulk (49 CFR 173.xxx) : 203 DOT Packaging Bulk (49 CFR 173.xxx) : 241 DOT Quantity Limitations Passenger aircraft/rail : No limit

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : No limit

CFR 175.75)

: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel

Emergency Response Guide (ERG) Number : 171

Other information : No supplementary information available.

#### 14.3. Air and sea transport

**DOT Vessel Stowage Location** 

### **IMDG**

UN-No. (IMDG) : 3082

Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Class (IMDG) : 9 - Miscellaneous dangerous substances and articles

Packing group (IMDG) : III - substances presenting low danger

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Limited quantities (IMDG)

: Shipping information on Grain-Set. Per the IMDG code: (2.10.2.7) environmentally hazardous substances of 5L or less in a container is shipped as a non-hazardous material and will not be labeled or packaged as hazardous. The transport of marine pollutants is not subject to any other provisions of the IMDG code relevant to marine pollutants (no marking. labelling or documentation required) provided: The net mass or net quantity per single packaging or inner packaging of combination packagings does not exceed 5 kg for solids and 5 L for liquids; The packagings meet the general provisions of paragraphs 4.1.1.1.1.2 and 4.1.1.4 to 4.1.1.8 of the IMDG code (strong rigid packaging). In the case of marine pollutants also meeting the criteria for inclusion in another hazard class all provisions of the IMDG code relevant to any additional hazards continue to apply.

This means that: UN 3077 Environmentally hazardous substances solid n.o.s .. in quantities of less than 5 kg per single packaging or inner packaging of combination packaging; and • UN 3082 Environmentally hazardous substances liquid. n.o.s .. in quantities of less than 5 L per single packaging or inner packaging of combination packaging can be shipped as not subject to the provisions of the IMDG code. For marine pollutants, which also have other hazards, no marine pollutant mark is required on the packages or on the container in which they are packed . but all other provisions of the IMDG code continue to apply. Because of this change. containers with dangerous goods in limited quantities which are also marine pollutants do not need to bear the Marine Pollutant mark.

**IATA** 

UN-No. (IATA) : 3082

Proper Shipping Name (IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Class (IATA) : 9 - Miscellaneous Dangerous Goods

Packing group (IATA) : III - Minor Danger

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

#### 15.1. National regulations

No additional information available

#### 15.2. International regulations

#### LACTOBACILLUS EXTRACT FILTRATE

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

## YUCCA SCHIDIGERA STEM EXTRACT (223749-05-1)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

## Manganese sulfate, monohydrate (10034-96-5)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

### Zinc sulfate (7733-02-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

 SDS Major/Minor
 : None

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### Full text of H-statements:

H302	Harmful if swallowed	
H318	Causes serious eye damage	
H373	May cause damage to organs through prolonged or repeated	
	exposure	
H400	Very toxic to aquatic life	
H410	Very toxic to aquatic life with long lasting effects	
H411	Toxic to aquatic life with long lasting effects	

#### SDS Canada (GHS)

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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