# **Safety Data Sheet**

Issue Date 16-Dec-2013 Revision Date 10-Oct-2019 Version: 3.01

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name Sierraform GT Preseeder 18-22-5

Product Code: 40850120DB
Pure substance/mixture Mixture.

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

Recommended Use Fertilizer (PC12). Restricted to professional users.

Uses Advised Against: Consumer use [SU 21].

1.3. Details of the supplier of the safety data sheet

Everris International B.V.Nijverheidsweg 1-5; 6422 PD Heerlen (NL); Tel: +31 (0)45-5609100; Fax: +31 (0)45-5609190.

For further information, please contact: INFO-MSDS@EVERRIS.COM.

1.4. Emergency telephone number: IN CASE OF AN EMERGENCY CALL: +44 1235 239 670 (24h).

# **Section 2: HAZARDS IDENTIFICATION**

## 2.1. Classification of the substance or mixture

Mixture

Regulation (EC) No 1272/2008 (CLP)

Eye Irritation Category 1 - (H318)

#### 2.2. Label elements



Signal Word: Danger

## **Hazard Statements:**

H318 - Causes serious eye damage

Contains Potassium sulphate; K2SO4

#### **Precautionary Statements:**

P280 - Wear 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

P310 - Immediately call a POISON CENTER or doctor/physician

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1 Substances

_						
-1	Chemical Name	EC-No.	CAS No	Weight %	Classification according	REACH registration
-1				_	Regulation (EC) 1272/2008	
- 1					· ,	nambe.
- 1					[CLP]	

Mono ammonium phosphate; NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>	231-764-5	7722-76-1	40 - 65%	Not classified	01-2119488166-29
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	231-915-5	7778-80-5	5 - 10%	Eye Dam. 1 (H318)	01-2119489441-34
Urea	200-315-5	57-13-6	1 - 5%	Not classified	01-2119463277-33

Full text of H- and EUH-phrases: see section 16

# **Section 4: FIRST AID MEASURES**

4.1. Description of first aid measures

**General Advice:** First aid measures should be executed by trained personnel only.

**In case of shortness of breath, give oxygen. Possible symptoms are coughing and/or** 

dyspnoea. Move to fresh air. If symptoms persist, call a physician.

**Skin Contact:** If a person feels unwell or symptoms of skin irritation appear, consult a physician.

**Eye Contact:** Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists,

consult a specialist.

**Ingestion:** Do not induce vomiting without medical advice. If a person vomits when lying on his back,

place him in the recovery position. Never give anything by mouth to an unconscious person. In case of respiratory difficulties practice oxygenotherapy. Possible symptoms are nausea

and/or vommiting.

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

None under normal processing

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

None under normal processing.

# **Section 5: FIRE FIGHTING MEASURES**

5.1. Extinguishing media

<u>Suitable Extinguishing Media:</u> Coordinate fire extinguishing measures to fire in surrounding

area. Use dry chemical, CO2, water spray or "alcohol" foam.

Unsuitable Extinguishing Media: High volume water jet.

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

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## 5.3. Advice for firefighters

Use extinguishing agent suitable for type of surrounding fire. In the event of fire and/or explosion do not breathe fumes. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

# Section 6: ACCIDENTAL RELEASE MEASURES

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

Personal Precautions: Avoid dust formation. Ensure adequate ventilation.

For Emergency Responders: Use personal protection recommended in Section 8.

#### 6.2. Environmental precautions

Prevent product from entering drains. Do not contaminate surface water.

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

Methods for Containment: Prevent further leakage or spillage if safe to do so.

Methods for Cleanup: Shovel or sweep up. Use up product completely. Packaging material is industrial waste.

## 6.4. Reference to other sections

§ 8, 12, 13.

# **Section 7: HANDLING AND STORAGE**

## 7.1. Precautions for safe handling

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. When using, do not eat, drink or smoke.

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

Technical measures/storage conditions:

Keep away from heat and sources of ignition. Keep away from food, drink and animal feeding stuffs. For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used packaging should be closed well. Keep at temperatures between 0 °C and 40 °C.

Packaging Materials: LGK (Germany) Store in original container. Store in a closed container.

13

7.3. Specific end use(s)

Specific use(s)
Exposure scenario

Fertilizer; www.everris.com; Read and follow label instructions

Mixture. Not required.

# Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>		
Bulgaria - OEL- TWAs	10.0 mg/m³ TWA	
Latvia - OEL - TWAs	10 mg/m³ TWA	
Urea		
Bulgaria - OEL- TWAs	10.0 mg/m³ TWA	
Latvia - OEL - TWAs	10 mg/m³ TWA	

## Derived No Effect Level (DNEL)

Component	Oral	Dermal	Inhalation
Mono ammonium phosphate; NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub> 7722-76-1 ( 40 - 65% )		34.7 mg/kg bw/day	6.1 mg/m³
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub> 7778-80-5 ( 5 - 10% )		21.3 mg/kg bw/day	37.6 mg/m <sup>3</sup>
Urea 57-13-6 ( 1 - 5% )		580 mg/kg bw/day	292 mg/m <sup>3</sup>

## **Predicted No Effect Concentration (PNEC)**

No data available

Component	Fresh Water	Freshwater sediment	Sea Water	Sea sediment	Soil	Impact on Sewage Treatment
Mono ammonium phosphate; NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub> 7722-76-1 (40 - 65%)	1.7 mg/l		0.17 mg/l			
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub> 7778-80-5 ( 5 - 10% )	0.68 mg/l		0.068 mg/l			10 mg/l
Urea 57-13-6 ( 1 - 5% )	0.47 mg/l		0.047 mg/l			

#### 8.2. Exposure controls

Personal protective equipment

Revision Date 10-Oct-2019

**Eye/Face Protection** Tightly fitting safety goggles

Hand protection Nitrile rubber (0.26 mm). Break through time. > 8 h.

Respiratory Protection No personal respiratory protective equipment normally required

Skin and body protection: Usual safety precautions while handling the product will provide adequate protection

against this potential effect

Hygiene Measures: Follow good housekeeping practices. When using, do not eat, drink or smoke. Keep away

from food, drink and animal feeding stuffs.

# **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1. Information on basic physical and chemical properties

Physical State:SolidAppearance:GranulesColor:brown, grey.Odor:None

**Bulk density:** 700 - 800 kg/m<sup>3</sup> no data available

No data available **Melting Point/Freezing Point:** Boiling Point/Range: Solid. Not applicable. Flash Point: Solid. Not applicable. **Evaporation Rate:** Solid. Not applicable. Flammability (solid, gas): Not flammable Vapor Pressure: Solid. Not applicable. Vapour density Solid. Not applicable. Relative density No data available Water Solubility: No data available Solubility(ies) No data available **Partition Coefficient:** Solid. Not applicable. No data available **Autoignition Temperature: Decomposition temperature:** No data available

**Explosive Properties:**Doesn't present explosion hazard.

9.2. Other information

VOC Content (%): Solid. Not applicable.

## Section 10: STABILITY AND REACTIVITY

## 10.1. Reactivity

Not reactive.

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

None under normal processing. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

#### 10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

#### 10.5. Incompatible materials

Keep away from catalysts like derivates of hexavalent chromium and metal halides. Keep away from flammable products (fuels) like charcoal, wood, flour, soot etc.

## 10.6. Hazardous decomposition products

None under normal processing. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

# **Section 11: TOXICOLOGICAL INFORMATION**

## 11.1. Information on toxicological effects

## **Product Information**

If this product is a mixture, the classification is not based on toxicology studies for this product, but is based solely on toxicology studies for ingredients found within this product. More detailed substance and/or ingredient information may be provided in the other sections of this SDS

## Information on the Likely Routes of Exposure (inhalation, ingestion, skin and eye contact):

**Inhalation** Inhalation of dust in high concentration may cause irritation of respiratory system.

**Eye contact** May cause slight irritation.

**Skin Contact** May cause irritation.

**Ingestion** May cause gastrointestinal discomfort if consumed in large amounts.

#### Information on Toxicological Effects

None known

**Acute Toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (oral): 88,000.00 mg/kg

**Unknown Acute Toxicity:** 0% of the mixture consists of ingredient(s) of unknown toxicity.

Potassium sulphate; K<sub>2</sub>SO<sub>4</sub> (7778-80-5)

	Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ī	Mono ammonium phosphate; NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>	= 5750 mg/kg (Rat)	> 7940 mg/kg (Rabbit)	
Ī	Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	= 6600 mg/kg (Rat)	> 2000 mg/kg (Rat)	N.E.
Ī	Urea	= 8471 mg/kg (Rat)		

## Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:

If this product is a mixture, the classification is not based on toxicology studies for this product, but is based solely on toxicology studies for ingredients found within this product. More detailed substance and/or ingredient information may be provided in the other sections of this SDS

Serious eye damage/eye irritation Classification based on individual ingredients of the mixture.

Respiratory or skin sensitization Classification based on individual ingredients of the mixture.

Germ Cell Mutagenicity Classification based on individual ingredients of the mixture.

**Carcinogenicity** Classification based on individual ingredients of the mixture.

**Reproductive Toxicity**Classification based on individual ingredients of the mixture.

**STOT - Single Exposure** Classification based on individual ingredients of the mixture.

**STOT - Repeated Exposure**Classification based on individual ingredients of the mixture.

**Aspiration Hazard** Classification based on individual ingredients of the mixture.

# **Section 12: ECOLOGICAL INFORMATION**

12.1. Toxicity
Ecotoxicity

Ecotoxicity Should not be released into the environment

Unknown Aquatic Toxicity 26% of the mixture consists of components(s) of unknown

hazards to the aquatic environment.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Potassium sulphate;	2900: 72 h	653: 96 h Lepomis	-	890: 48 h Daphnia
K <sub>2</sub> SO <sub>4</sub>	Desmodesmus	macrochirus mg/L LC50		magna mg/L EC50
	subspicatus mg/L EC50	3550: 96 h Lepomis		
	1	macrochirus mg/L LC50		
		static 510 - 880: 96 h		
		Pimephales promelas		
		mg/L LC50 static		

Urea	> 10000: 192 h	16200 - 18300: 96 h	-	3910: 48 h Daphnia
	Scenedesmus	Poecilia reticulata mg/L		magna mg/L EC50 Static
	quadricauda mg/L EC50	LC50		10000: 24 h Daphnia
				magna Straus mg/L
				EC50

12.2. Persistence and degradability

Persistence and Degradability: No persistent or cumulative effects were observed.

12.3. Bioaccumulative potential

Bioaccumulation: Does not bioaccumulate.

Chemical Name	LOGPOW
Urea	-1.59

12.4. Mobility in soil No data available.

12.5. PBT and vPvB assessment No data available.

12.6. Other adverse effects No data available.

# **Section 13: DISPOSAL CONSIDERATIONS**

13.1. Waste treatment methods

Disposal of Wastes: Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Contaminated Packaging:** Do not reuse container.

# **Section 14: TRANSPORT INFORMATION**

IMO / IMDG

14.1

UN-No: Not regulated

14.2

Proper shipping name: Not regulated

<u>14.3</u>

Hazard Class: Not regulated

14.4

Packing group: Not regulated

14.5

Marine Pollutant: No information available

14.6

Special Provisions None

14.7

Bulk transport according Annex II of MARPOL and IBC Code No data available

ADR/RID

14.1 UN-No: Not regulated

14.2

Proper shipping name: Not regulated

14.3

Hazard Class: Not regulated

14.4

Packing group: Not regulated

14.5

Environmental Hazard Not regulated

14.6

Special Provisions None

IATA

14.1

UN-No: Not regulated

14.2

Proper shipping name: Not regulated

<u>14.3</u>

Hazard Class: Not regulated

14.4

Packing group: Not regulated

14.5

Environmental Hazard Not regulated

14.6

Special Provisions None

# **Section 15: REGULATORY INFORMATION**

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

## Belgium

**Denmark** 

Denmark No data available

France

ICPE Not regulated

Germany

LGK (Germany) 13

Water Endangering Class (WGK): 1 (Everris classification)

Gefahrstoffverordnung (Germany) TRGS 511 Not regulated

Component	German WGK Section
Mono ammonium phosphate; NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>	1
7722-76-1 ( 40 - 65% )	
Potassium sulphate; K <sub>2</sub> SO <sub>4</sub>	1
7778-80-5 ( 5 - 10% )	
Urea	1
57-13-6 (1 - 5%)	

#### 15.2 Chemical safety assessment

Substance(s) usage is covered according to Reach regulation 1907/2006

Take note of Dir. 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work

# **Section 16: OTHER INFORMATION**

# Full text of H-Statements referred to under sections 2 and 3

- H318 - Causes serious eye damage

# Key or legend to abbreviations and acronyms used in the safety data sheet

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

ICAO: International Civil Aviation Organization

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

PNEC: Predicted No Effect Concentration

**DNEL: Derived No-Effect Level** 

REACh: Registration, Evaluation, Authorization of Chemicals CLP: EU-GHS; Classification, Labelling and Packaging

**OEL: Occupational Exposure Limit** TWA: Time Weighted Average ATE: Acute Toxicity Estimate

EUH phrase: CLP (EU) specific hazard statement

LD50: Lethal dose, 50%.

LC50: Lethal concentration, 50%. SVHC: Substance of Very High Concern.

Classification procedure

Prepared by

· Calculation method

• Expert judgment and weight of evidence determination

Key literature references and sources for data

According to EC Regulation 1907/2006 (Reach), Regulation EU

Regulatory Affairs Department (INFO-MSDS@EVERRIS.COM)

No. 2015/830. Regulation (EC) No 1272/2008 (CLP).

**Issue Date** 16-Dec-2013

Restrictions on use

Restricted to professional users

\*\*\* Indicates changes since the last revision. This version Reason for revision replaces all previous versions

This information contained herein is, to the best of Everris' knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and Everris shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, Everris shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.