

# MATERIAL SAFETY DATA SHEET

According to EC Regulation 1907/2006 (Reach), Regulation EU No. 453/2010

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## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### Identification of the substance or preparation

MSDS Ref. No.: 4105.01.20  
Product Name: Sierraform GT Anti Stress

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

#### Recommended Use

Fertilizer. Restricted to professional users.

#### Uses advised against

Consumer use.

### Company/undertaking identification

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

#### Emergency telephone number:

+44 1235 239 670 (24h)

#### Email

INFO-MSDS@EVERRIS.com

## 2. Hazards Identification

### Classification

#### Indication of danger:

This product does not have to be classified according to the EU regulations (1999/45/EC)

## 3. Composition/information on Ingredients

### Chemical nature of the preparation

Ingredients	CAS-No	Weight %	EC-No.	Classification	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Iron sulphate, FeSO <sub>4</sub> +1H <sub>2</sub> O	7720-78-7	5 - 10%	231-753-5	Xn; R22 Xi; R36/38	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H302)	01-2119513203-57

NE = Non-Established.

For the full text of the R phrases mentioned in this Section, see Section 16  
Full text of H- and EUH-phrases: see section 16

## 4. First aid measures

### 4.1. Description of first aid measures

- General advice:** If you feel unwell, seek medical advice (show the label where possible).
- 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 vomiting.
- Inhalation:** 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.
- Protection of first-aiders:** Low hazard for usual industrial or commercial handling.
- Notes to physician:** Artificial respiration and/or oxygen may be necessary.

### 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

## 5. Fire-fighting measures

### Suitable extinguishing media:

Coordinate fire extinguishing measures to fire in surrounding area. Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam.\*\*\*

### Unsuitable extinguishing media:

High volume water jet.

### Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:

Thermal decomposition can lead to release of irritating gases and vapours. Danger of toxic gases in smoke in case of fire.\*\*\*

### Special protective equipment for firefighters:

In the event of fire and/or explosion do not breathe fumes. Wear self contained breathing apparatus for fire fighting if necessary. Evacuate area and fight fire from a safe distance.

## 6. Accidental release measures

### Personal Precautions:

Avoid dust formation. Ensure adequate ventilation.

**Environmental Precautions:**

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

**Methods for cleaning up:**

Shovel or sweep up. Use up product completely. Packaging material is industrial waste.

## 7. Handling and Storage

**Handling:****Technical measures/precautions:**

No special technical protective measures required.

**Safe handling advice:**

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

**Storage:****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 bags should be closed well. Keep at temperatures between 0 °C and 40 °C.

**Incompatible products:**

not applicable

**Specific use(s):**

Fertilizer.

## 8. Exposure Controls/Personal Protection

**Engineering measures to reduce exposure:**

Ensure adequate ventilation.

**Occupational exposure controls****Personal Protective Equipment****Respiratory Protection:**

No personal respiratory protective equipment normally required.

**Hand protection:**

PVC or other plastic material gloves.

**Eye/face Protection**

Tightly fitting safety goggles.

**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.

**Exposure Limit Values**Iron sulphate, FeSO<sub>4</sub>·1H<sub>2</sub>O

Belgium - 8 Hr TWA

1 mg/m<sup>3</sup>

Finland - Occupational Exposure Limits - 8 hour

1 mg/m<sup>3</sup>

Netherlands - OEL - MACs:

1 mg/m<sup>3</sup>

Norway - 8 h:

0.01 mg/m<sup>3</sup>

UK EH40 WEL:

LTEL (8 hr TWA) 1 mg/m<sup>3</sup>

STEL (15 min) 2mg/m<sup>3</sup>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**General information**

<b>Physical state</b>	Solid
<b>Appearance:</b>	granulate
<b>Color:</b>	brown, grey
<b>Odor:</b>	Not significant

**Important Health Safety and Environmental Information**

<b>Melting point/range:</b>	No information available
<b>Solubility:</b>	Moderately soluble
<b>Vapour pressure</b>	No information available
<b>Vapour density</b>	No information available
<b>Explosive properties:</b>	Doesn't present explosion hazard
<b>Flammability (solid, gas):</b>	Non-flammable

**OTHER INFORMATION**

<b>pH:</b>	No information available
<b>Bulk density:</b>	800 - 900 kg/m <sup>3</sup>
<b>Viscosity</b>	not applicable

**10. Stability and Reactivity**

<b>Chemical stability</b>	Stable under recommended storage conditions
<b>Conditions to Avoid</b>	Keep away from open flames, hot surfaces and sources of ignition.
<b>Incompatible Materials</b>	Strong oxidizing agents. Acids and bases. Strong reducing agents. Flammable materials.
<b>Hazardous Decomposition Products</b>	<b>No decomposition if stored normally. Thermal decomposition can lead to release of irritating gases and vapours. Burning produces obnoxious and toxic fumes.***</b>
<b>Hazardous reactions</b>	The product itself does not burn.

**11. Toxicological Information****Component Information***Iron sulphate, FeSO<sub>4</sub>·1H<sub>2</sub>O***LD50/oral/rat =** 1389 mg/kg**Other information on acute toxicity:**

No information available

**Product Information****Local effects****Skin effects:** May cause skin irritation in susceptible persons.**Eye effects:** Contact with eyes may cause irritation.**Inhalation** May cause sensitization by inhalation.**Ingestion:** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

## 12. Ecological Information

### Product Information

<b>Aquatic toxicity:</b>	Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.
<b>Persistence and degradability</b>	No persistent or cumulative effects were observed
<b>Bioaccumulative potential</b>	Does not bioaccumulate
<b>Mobility in soil</b>	No information available

### Component Information

*Iron sulphate, FeSO<sub>4</sub>+1H<sub>2</sub>O*

Ecotoxicity effects

EC50/48h/daphnia =>100mg/l1

## 13. Disposal Considerations

<b>Waste Disposal Methods:</b>	Dispose of in accordance with local regulations.***
<b>Contaminated packaging:</b>	Empty containers can be landfilled, when in compliance with the local regulations.

## 14. Transport Information

### Product Information

<b>Physical state:</b>	solid
<b>ADR/RID UN-No:</b>	Not classified for transport
<b>IATA UN-No:</b>	Not classified for transport
<b>IMO / IMDG UN-No:</b>	Not classified for transport

## 15. Regulatory information

### Indication of danger:

This product does not have to be classified according to the EU regulations (1999/45/EC)

### In accordance with local and national regulations

**ICPE (FR):** Not Applicable

## 16. OTHER INFORMATION

### Text of R Phrases mentioned in Section 3

R22 - Harmful if swallowed

R36/38 - Irritating to eyes and skin

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

H302 - Harmful if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation

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

**Revision Date:** 26-Jun-2013

**Prepared by:** Regulatory Affairs Department (INFO-MSDS@EVERRIS.COM)

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**End of Safety Data Sheet**