

## Material Safety Data Sheet: Winter Turf Hardener

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

#### 1.1 Product identifier

**Product Name:** Winter Turf Hardener

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

Liquid fertiliser for use on turf, grass and lawns.

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

**Manufacturer/Supplier:**

Growing Solutions Ltd

Winterview Farm

Parr Lane

Ecclestone

Chorley

Lancashire

PR7 5RP

United Kingdom

Telephone: +44 (0) 1772 454724

Email: [info@growingsolutionsltd.com](mailto:info@growingsolutionsltd.com)

#### 1.4 Emergency telephone number:

0870 243 2241 or +44 (0)20 7771 5310 – United Kingdom Poisons Information Centre

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

<u>Hazard Class</u> <u>And Category Code</u>	<u>Hazard</u> <u>Statement Code</u>	<u>Hazard</u> <u>Statement</u>
Eye Irritation 2	H319	Causes serious eye irritation.

#### 2.2 Label Elements

**Hazard pictograms**



**Signal word**

Warning

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### Hazard statements

H315 Causes skin irritation.

### Precautionary statements

P102 Keep out of reach of children.

P402 + P404 Store in a dry place. Store in a closed container.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## 3 COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

#### Hazardous ingredient(s):

Description	CAS No.	EC Number	Concentration in mixture
Calcium Chloride	10043-52-4	233-140-8	10 - 15% w/w
Ferrous Sulphate	07720-78-7	231-753-5	10 - 15% w/w

## 4 FIRST AID MEASURES

### 4.1 Description of first aid measures

**After skin contact:** Immediately rinse with water.

**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing:** DO NOT INDUCE VOMITING. Wash out mouth with water and give water to drink. Seek medical attention immediately if symptoms persist or develop.

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

No further relevant information available.

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

No further relevant information available.

## 5 FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable extinguishing agents:

Water haze

Foam

Carbon dioxide

Fire-extinguishing powder

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

No further relevant information available.

### 5.3 Advice for firefighters

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**Protective equipment:** Wear complete protective clothing and self-contained respiratory protective device.

### 6 ACCIDENTAL RELEASE MEASURES

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

**Personal precautions:** Wear suitable protective clothing, glove and eye/face protection.

#### 6.2 Environmental precautions

Prevent further spillage if safe. Do not allow product to enter sewers / surface or ground water.

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

**For large spills:** Collect and reuse if possible.

**Otherwise:** Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

#### 6.4 Reference to other sections

See section 8 for information on personal protection equipment.

See section 13 for disposal information.

### 7 HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

**Handling:** Keep container tightly closed. Use personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours or spray mist.

**Hygiene Measures:** Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands after use. Remove all contaminated clothing immediately.

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

**Storage:** Keep only in the original container. Keep away from heat and in a well ventilated place. Store in a cool dry place (store above 5degrees C.). Keep away from food, drink and animal food stuffs. Keep out of reach of children and babies.

**Suitable packaging:** Plastic UN approved containers.

#### 7.3 Specific end uses

No Information available.

### 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Control parameters

Exposure limit values have not been determined for this mixture.

#### 8.2 Exposure controls

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<b>Appropriate engineering controls:</b>	Refer to protective measures listed in sections 7 and 8.	
<b>Individual protection measures:</b>	<b>Respiratory protection:</b>	In case of brief exposure or low pollution, use breathing filter apparatus. In case of intensive or pro-longed exposure use self-contained breathing apparatus.
	<b>Hand protection:</b>	Protective gloves must be worn. The following materials are suitable; PVC or Nitrile rubber.
	<b>Eye protection:</b>	Safety glasses or face shield giving complete protection to the eyes.
	<b>Skin / body protection:</b>	Impervious clothing / chemical resistant apron.
	<b>Foot protection:</b>	Impervious safety boots.
<b>Environmental exposure controls:</b>	<b>General advice:</b>	Do not flush into surface water or sewer.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Appearance:</b>	Liquid
<b>Colour:</b>	Brown
<b>Odour:</b>	Odourless
<b>Odour Threshold:</b>	No information available.
<b>pH:</b>	2.80 – 3.10
<b>Melting point / Freezing point:</b>	No information available.
<b>Boiling point / Boiling range:</b>	No information available.
<b>Flash point:</b>	No information available.
<b>Flammability:</b>	This product is not flammable.
<b>Upper explosive limits:</b>	No information available.
<b>Lower explosive limits:</b>	No information available.
<b>Vapour pressure:</b>	No information available.
<b>Vapour density:</b>	No information available.
<b>Relative density:</b>	1.30 – 1.35
<b>Water solubility:</b>	Soluble
<b>Partition coefficient n-octanol / water:</b>	No information available.
<b>Ignition temperature:</b>	No information available.
<b>Decomposition temperature:</b>	No information available.
<b>Viscosity:</b>	No information available.
<b>Explosivity:</b>	No information available.
<b>Oxidising properties:</b>	No information available.

### 9.2 Other information

No information available.

## 10 STABILITY AND REACTIVITY

### 10.1 Reactivity

No information available.

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### **10.2 Chemical stability**

Stable under normal conditions of use.

### **10.3 Possibility of hazardous reactions**

No information available.

### **10.4 Conditions to avoid**

No information available.

### **10.5 Incompatible materials**

No information available.

### **10.6 Hazardous decomposition products**

Irritant gases.

## **11 TOXICOLOGICAL INFORMATION**

### **11.1 Information on toxicological effects**

#### **Acute toxicity:**

**Oral:** No information available.  
**Inhalation:** No information available.  
**Dermal:** No information available.

#### **Irritation:**

**Skin:** Irritating to skin.  
**Eyes:** No information available.  
**Sensitisation:** No information available.

#### **CMR Effects:**

**Carcinogenicity:** No known significant effects or critical hazards.

**Mutagenicity:** No known significant effects or critical hazards.  
**Teratogenicity:** No known significant effects or critical hazards.

**Reproductive toxicity:** No known significant effects or critical hazards.

#### **Specific target organ toxicity:**

**Single exposure:** No known significant effects or critical hazards.  
**Repeated exposure:** No known significant effects or critical hazards.  
**Aspiration toxicity:** No known significant effects or critical hazards.

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### 12 ECOLOGICAL INFORMATION

#### 12.1 Toxicity

**Aquatic Toxicity:** No known significant effects or critical hazards.

#### 12.2 Persistence and degradability

No information available.

#### 12.3 Bio accumulative potential

No information available.

#### 12.4 Mobility in soil

No information available.

#### Additional ecological information

**General notes:** Do not allow product to enter surface water or sewer.

#### 12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

#### 12.6 Other adverse effects

No information available.

### 13 DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

**Product:** Disposal together with normal waste is not allowed. Special disposal is required in accordance to local regulations.

**Contaminated packaging:** Empty contaminated containers thoroughly. They can be recycled after thorough and proper cleaning. Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

### 14 TRANSPORT INFORMATION

#### 14.1 UN number

Product is not classified as hazardous for transport.

#### 14.2 UN proper shipping name

Product is not classified as hazardous for transport.

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### **14.3 Transport hazard class (es)**

Product is not classified as hazardous for transport.

### **14.4 Packing group**

Product is not classified as hazardous for transport.

### **14.5 Environmental hazards**

Product is not classified as hazardous for transport.

### **14.6 Special precautions for user**

Not applicable.

### **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code**

IMDG: Not applicable.

## **15 REGULATORY INFORMATION**

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

*Labelling according to Regulation (EC) No 1272/2008 GHS Label elements*

### **15.2 Chemical safety assessment**

No information available.

## **16 OTHER INFORMATION**

Further Information: The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage, transportation, disposal and handling of the material designated and should not be considered a warranty or quality specification. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.