



## SAFETY DATA SHEET SOLUBLE IRON

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name SOLUBLE IRON  
Product number IHM007

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

Identified uses Turf hardener and colour enhancer.

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

Supplier Headland Amenity Ltd  
1 Burr Elm Court  
Main Street  
Caldecote  
Cambridge  
Cambridgeshire  
CB23 7NU  
Tel. +44 (0)1223 491090  
sds.enquiries@headlandamenity.com

Contact person Wendy Windscheffel

#### 1.4. Emergency telephone number

Emergency telephone +44 (0)1223 491090 (9.00 - 5.00 GMT Mon-Fri)

### SECTION 2: Hazards identification

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

##### Classification

Physical hazards Not Classified  
Health hazards Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319  
Environmental hazards Not Classified

#### 2.2. Label elements

##### Pictogram



Signal word Warning

Hazard statements H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

## SOLUBLE IRON

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.  
 Rinse skin with water/shower.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.

**Contains** IRON (II) SULFATE HEPTAHYDRATE

### 2.3. Other hazards

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

##### 3.2. Mixtures

<b>IRON (II) SULFATE HEPTAHYDRATE</b>	<b>100%</b>
CAS number: 7720-78-7	EC number: 231-753-5
	REACH registration number: 01-2119513203-57-XXXX
<b>Classification</b>	
Acute Tox. 4 - H302	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**Composition comments** The data shown are in accordance with the latest EC Directives.

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

**Inhalation** Remove person to fresh air and keep comfortable for breathing. Get medical attention if any discomfort continues.

**Ingestion** DO NOT induce vomiting. Get medical attention immediately. Rinse mouth thoroughly with water.

**Skin contact** Remove any contaminated clothing and launder before re-use. Wash with plenty of water. Get medical attention if irritation persists after washing.

**Eye contact** Promptly wash eyes with plenty of water while lifting the eye lids. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

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

**General information** Symptoms of poisoning may occur after several hours. Medical observation for at least 48 hours after the accident is recommended.

**Inhalation** Information not available.

**Ingestion** Toxic quantities of iron sulphate causes bloody vomiting, hypotension, hyporeflexia, Melena. It can cause constriction of the stomach.

**Skin contact** This product is moderately irritating.

**Eye contact** Irritating.

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

#### SECTION 5: Firefighting measures

## SOLUBLE IRON

### 5.1. Extinguishing media

**Suitable extinguishing media** Use foam, carbon dioxide, dry powder or water fog to extinguish.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

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

**Hazardous combustion products** Sulphurous gases (SO<sub>x</sub>).

### 5.3. Advice for firefighters

**Protective actions during firefighting** Containers close to fire should be removed or cooled with water.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

**Personal precautions** Provide adequate ventilation. Wear protective clothing and gloves. Avoid generation of dust. Avoid inhalation of dust.

### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground.

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

**Methods for cleaning up** Provide adequate ventilation. Collect and dispose of spillage as indicated in Section 13.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Provide adequate ventilation. Avoid producing and inhaling dust. Avoid contact with skin and eyes.

**Advice on general occupational hygiene** Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off immediately all contaminated clothing and wash it before reuse. Remove contaminated clothing and protective equipment before entering eating areas. Provide eyewash station.

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

**Storage precautions** Keep away from alkalis. Keep away from food, drink and animal feeding stuffs. Protect from moisture. This product is hygroscopic.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

### 8.2. Exposure controls

## SOLUBLE IRON

### Protective equipment



<b>Eye/face protection</b>	Wear chemical splash goggles.
<b>Hand protection</b>	Use protective gloves. Neoprene.
<b>Other skin and body protection</b>	Wear protective clothing.
<b>Hygiene measures</b>	Wash hands thoroughly after handling. Take off immediately all contaminated clothing and wash it before reuse. Wash contaminated skin thoroughly after handling. Do not eat, drink or smoke when using this product. Provide eyewash station.
<b>Respiratory protection</b>	If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.

### SECTION 9: Physical and Chemical Properties

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

<b>Appearance</b>	Granular powder.
<b>Colour</b>	Green-yellow.
<b>Odour</b>	Sulphurous.
<b>Odour threshold</b>	No information available.
<b>pH</b>	~ 2 @ 20oC
<b>Melting point</b>	64°C
<b>Initial boiling point and range</b>	No information available.
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	No information available.
<b>Evaporation factor</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	Mixture not classed as flammable or explosive.
<b>Vapour pressure</b>	No information available.
<b>Vapour density</b>	No information available.
<b>Relative density</b>	1.898 g/cm <sup>3</sup> @ 20°C
<b>Bulk density</b>	800-900 kg/m <sup>3</sup>
<b>Solubility(ies)</b>	365 g/l water @ 10°C
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	No information available.
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	3 mPa s @ 20°C
<b>Explosive properties</b>	Not considered to be explosive.
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.

## SOLUBLE IRON

### 9.2. Other information

**Other information** No other relevant information available.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** Stable under recommended transport or storage conditions.

#### 10.2. Chemical stability

**Stability** Stable under the prescribed storage conditions.

#### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** There are no hazardous reactions if handled and stored according to prescribed conditions.  
Loss of constitutional water on heating.

#### 10.4. Conditions to avoid

**Conditions to avoid** None known.

#### 10.5. Incompatible materials

**Materials to avoid** Alkaline materials.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** No known hazardous decomposition products.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity - oral

**ATE oral (mg/kg)** 1,520.0

**Ingestion** Toxic quantities of iron sulphate causes bloody vomiting, hypotension, hyporeflexia, Melena.  
Can cause constriction of the stomach.

**Skin contact** This product is moderately irritating.

**Eye contact** Irritating.

### SECTION 12: Ecological Information

#### 12.1. Toxicity

#### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No information available.

**Partition coefficient** No information available.

#### 12.4. Mobility in soil

**Mobility** The product is soluble in water.

#### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

## SOLUBLE IRON

### 12.6. Other adverse effects

#### SECTION 13: Disposal considerations

##### 13.1. Waste treatment methods

**General information** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

#### SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

##### 14.1. UN number

Not applicable.

##### 14.2. UN proper shipping name

Not applicable.

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

No transport warning sign required.

##### 14.4. Packing group

Not applicable.

##### 14.5. Environmental hazards

###### Environmentally hazardous substance/marine pollutant

No.

##### 14.6. Special precautions for user

Not applicable.

##### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

#### SECTION 15: Regulatory information

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

**EU legislation** Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

##### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### SECTION 16: Other information

**Revision comments** Supplier contact and emergency contact details updated.

**Revision date** 04/09/2015

**Revision** 3

**Supersedes date** 25/06/2015

## SOLUBLE IRON

### **Hazard statements in full**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.