



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 IPH003/25

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 Johnson

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 (EC 1272/2008)

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 and eye 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

IRON (II) SULFATE HEPTAHYDRATE	100%
CAS number: 7720-78-7	EC number: 231-753-5
	REACH registration number: 01-2119513203-57-XXXX
Classification 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 Take off contaminated clothing and wash it before reuse. 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_x).

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



Eye/face protection	Wear chemical splash goggles.
Hand protection	Wear protective gloves. Neoprene.
Other skin and body protection	Wear protective clothing.
Hygiene measures	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.
Respiratory protection	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

Appearance	Granular powder.
Colour	Green-yellow.
Odour	Sulphur.
Odour threshold	No information available.
pH	~ 2 @ 20oC
Melting point	64°C
Initial boiling point and range	No information available.
Flash point	Not applicable.
Evaporation rate	No information available.
Evaporation factor	No information available.
Upper/lower flammability or explosive limits	Mixture not classed as flammable or explosive.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	1.898 g/cm ³ @ 20°C
Bulk density	800-900 kg/m ³
Solubility(ies)	365 g/l water @ 10°C
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	3 mPa s @ 20°C
Explosive properties	Not considered to be explosive.
Oxidising properties	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 Under normal conditions of storage and use, no hazardous reactions will occur. Loss of constitutional water on heating.

10.4. Conditions to avoid

Conditions to avoid None known.

10.5. Incompatible materials

Materials to avoid Alkalis.

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 MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

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 NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 19/05/2016

Revision 4

Supersedes date 04/09/2015

SOLUBLE IRON

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

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.