



**Material Safety Data Sheet**  
**01/03/05**

1. IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name and Brand : **Soluplex**  
Supplier : Amenity Technology  
Address : Phoenix House, Aston Church Road, Saltley, Birmingham. B8 1QE  
Contact Number : Tel. +44 (0) 121 325 9951 Fax. +44 (0) 121 325 9150  
Emergency Number : Tel +44 (0) 121 325 9951

2. COMPOSITION – INFORMATION ON INGREDIENTS

Chemical Name	EU No.	CAS No	Concentration	Hazard	Risk
Ferrous sulphate heptahydrate	231-753-5	7782-63-0	98%	Xn	R22

3. HAZARD IDENTIFICATION

Irritant. May cause irritation to eyes and skin. May cause systemic damage and gastro-intestinal irritation

4. FIRST AID MEASURES

Eyes : Contact with eyes may cause severe irritation. Irrigate with copious amounts of eyewash or clean water for 10 minutes minimum. If symptoms persist, seek medical attention.  
Skin : Contact with skin, particularly if broken, may cause irritation. Rinse immediately with copious amounts of fresh water. If symptoms persist, seek medical attention.  
Inhalation : In the event of inhalation remove from source of inhalation, keep warm and at rest until any symptoms desist. If symptoms persist, seek medical attention.  
Ingestion : May cause systemic damage and gastro-intestinal irritation. Do not induce vomiting. Irrigate mouth with copious amounts of water. Do not give anything to drink. If vomiting occurs place the patient in the recovery position. If symptoms persist, seek medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing Media : Product is not flammable. Use extinguishers suited to surrounding fire conditions.  
Special Fire Fighting : Wear self contained breathing apparatus. Material will support combustion.  
Fire Decomposition : In intense heat will release hazardous sulphur oxide fumes.

6. ACCIDENTAL RELEASE MEASURES

Precautions: Avoid contact with skin and eyes. Provide an eyewash station.  
Spillage : Evacuate area. Contain and absorb with sand, earth or other inert material. Sweep up and place waste in sealed containers. Contact Local Authority for controlled waste disposal. Notify Environment Agency immediately if large spillage enters drains, sewers or water courses.

7. HANDLING AND STORAGE

Usage Precautions : Wear full overall protective clothing, goggles or face shield, rubber gloves and boots.  
Storage Precautions : Keep sealed in original containers. Store in a dry frost-free place above two degrees Celsius.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls : Apply COSHH assessment according to standard (OES) EH 40/94.  
Exposure Limits : 1 g/m<sup>3</sup> (8hr) 2mg/m<sup>3</sup> (15 mins).  
Protective Equipment : Wear full protective overall clothing.  
Hands and feet : Wear PVC or rubber gloves and boots.  
Eyes and Face : Wear face shield or goggles to BS 2092.  
Respiration : Wear type approved dust mask.



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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : pale blue green powder  
Odour : Slight odour.  
Specific Gravity : Solid  
Solubility : Completely soluble in water.  
pH : Solid

**10. STABILITY AND REACTIVITY**

Stability : Stable in normal ambient conditions.  
Hazardous Decomposition : In intense heat will release hazardous sulphur oxide fumes.  
Materials to avoid : Incompatible with oxidizing agents and alkalis.

**11. TOXOLOGICAL INFORMATION:**

Acute oral : Ingestion of large quantities can cause severe liver damage. Children are more susceptible than adults. LD50 oral rat (anhydrous ferrous sulphate) 319 mg/kg  
Eye and skin contact : may cause eye irritation and skin discolouration  
Sensitisation : non-sensitising based on mouse local lymphnode assay  
Carcinogenicity : lack of epidemiological evidence over long use implies that it is non carcinogenic  
Mutagenicity : no evidence of mutagenicity. Maternal toxicity, NOAEL rat (10 day) 160 mg/kg  
Reproductive toxicity : no evidence of reproductive toxicity

**12. ECOLOGICAL INFORMATION**

Precautions : Notify Environment Agency immediately if large spillage enters drains, sewers or water courses.  
Degradability : Readily biodegradable.  
Ecotoxicity : Rainbow trout (96hr) LC50 82.3mg/l  
Mobility : Soluble in water. Based on partition coefficient results ferrous sulphate has high mobility in soil and sediments. Persistence and degradability: hydrolyses in water. Bioaccumulation; low

**13. DISPOSAL CONSIDERATIONS**

Disposal Methods : Product requires controlled waste disposal in accordance with Control of Pollution Act 1974 and Special Waste Regulations 1980.  
Packaging : Do not re-use packaging for any other purpose. Dispose of used packaging in accordance with Special Waste Regulations 1980.

**14. TRANSPORT INFORMATION**

Transport : Material is not classified as hazardous or dangerous for transport according to current international regulations.

**15. REGULATORY INFORMATION**

Labeling EEC Regulations : Material is classified by CHIP regulations for supply as follows:  
Mandatory Hazard Symbol : Xn  
Risk Phrases : R22 Harmful if swallowed  
Safety Phrases : S2 Keep out of reach of children

S13 Keep away from food, drink or animal feedingstuffs.  
S24 Avoid contact with eyes.  
S35 This material and its container must be disposed of in a safe way.  
S46 If swallowed, seek medical advice immediately and show this container or label.

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## 16. OTHER INFORMATION

### Validity

The information contained herein relates only to the designated formulation and may not be valid if product is used in combination with other substances. The information is to the best of our knowledge, belief and understanding, true, accurate and reliable at the date of issue. However, the information may neither be exhaustive or complete, and no warranty, guarantee or liability concerning the accuracy or completeness of the information is expressed or implied. It is the user's risk and sole responsibility to verify and satisfy their own criteria and duty of care concerning the validity of the information in relation to their application of the product.

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