

# MATERIAL SAFETY DATA SHEET

Date of issue: 27.12.03

(Supercedes all previous issues)

## 1 IDENTIFICATION OF THE PRODUCT AND THE COMPANY

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PRODUCT NAME AND BRAND : **ROOT DEVELOPER**  
SUPPLIER : 4 Perfect Turf Ltd  
ADDRESS : Northgate White Lund Industrial Estate Morecambe LA3 3PA  
CONTACT Nos : 01524 381 999

## 2 COMPOSITION - INFORMATION ON INGREDIENTS

| CHEMICAL NAME    | CAS No.   | CONC. | HAZARD | RISK |
|------------------|-----------|-------|--------|------|
| FERROUS SULPHATE | 7782-63-0 | 100   | Xn     | R22  |

## 3 HAZARDS IDENTIFICATION

FIRE HAZARD : TOXIC FUMES OF SULFUR DIOXIDE ON DECOMPOSITION.  
INGESTION : HARMFUL IF SWALLOWED.  
IRRITANT : MAY CAUSE IRRITATION IN CONTACT WITH EYES.

## 4 FIRST AID MEASURES

EYES : Contact with eyes may cause IRRITATION. If symptoms persist seek medical aid. 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. Wash immediately with soap and rinse with copious amounts of clean water. If symptoms persist seek medical attention.

INHALATION : N/A liquid preparation. Excessive inhalation of spray mist may cause IRRITATION to the respiratory tract and systemic damage. Remove from source of inhalation and keep warm. 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 patient in the recovery position. Seek medical aid if symptoms persist.

## 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Product is not flammable. Use extinguishers suited to surrounding fire conditions.

SPECIAL FIRE FIGHTING PROCEDURES : Wear self-contained breathing apparatus.

HAZARDOUS ON DECOMPOSITION : NON-COMBUSTIBLE but toxic fumes of SULFUR DIOXIDE may be released.

## 6 ACCIDENTAL RELEASE MEASURES

PRECAUTIONS : Avoid contact with skin and eyes.

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 or sewers.

## 7 HANDLING AND STORAGE

USAGE PRECAUTIONS : Wear full overall protective clothing, PVC or rubber Gloves, Boots and type-approved dust mask.

STORAGE PRECAUTIONS : Keep sealed in original containers. Store in dry frost-free conditions above 2°C.

## 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS : Apply COSHH assessment according to standard (OES) EH 40/94

EXPOSURE LIMITS : 1 mg/m<sup>3</sup> Fe 8h TWA

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.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE : Green/Brown solution ODOUR : No characteristic odour  
SPECIFIC GRAV : 1.11 @ 15°C SOLUBILITY : Complete in water  
PH : 2

## 10 STABILITY AND REACTIVITY

STABILITY : Stable in normal ambient conditions.  
MATERIALS TO AVOID : Chlorites, hypochlorites and pure metals.  
HAZARDOUS DECOMPOSITION : Release of toxic Fumes (Sulfur Dioxide)

## 11 TOXICOLOGICAL INFORMATION

Material may cause gastro intestinal irritation if swallowed. It is not considered to be hazardous under normal conditions of use.

## 12 ECOLOGICAL INFORMATION

PRECAUTIONS : Advise Environment Agency immediately if water sources or soil is contaminated with Concentrate.  
DEGRADABILITY : Manganese compounds are mainly resistant to Degradation.  
AQUATIC TOXICITY : Toxic to Fish and Aquatic life.

## 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

LABELLING EEC REGULATIONS: MATERIAL IS CLASSIFIED BY CHIP REGULATIONS FOR SUPPLY AS FOLLOWS;

MANDATORY HAZARD SYMBOL : Xn  
RISK PHRASES : R 22 HARMFUL IF SWALLOWED  
SAFETY PHRASES: S 2 KEEP OUT OF REACH OF CHILDREN

## 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.