



PRODUCT SAFETY DATA SHEET:
INTURF ESTABLISH POST INSTALLATION

READ BEFORE USE & KEEP FOR FUTURE REFERENCE

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

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Product Name: INTURF ESTABLISH 15-5-15 POST INSTALLATION

Use/Description of Product: Granular Organic Fertilizer for Sports/
Amenity areas post installation of turf

2. HAZARDS IDENTIFICATION:

Human Health Product is of a low toxicity but prolonged skin or eye contact may cause some irritation. This fertilizer preparation is not classified as a dangerous material according to EC directive 67/548/EEV or 1999/45/EC. **Ingestion:** Small quantities are unlikely to cause toxic effects. Large quantities may give rise to gastro-intestinal disorders.

Inhalation: Low toxicity dust but high concentration of air-borne material may cause irritation of the nose and upper respiratory tract with symptoms such as sore throat and coughing. Generally regarded as a nuisance dust with no specific official Occupational Exposure Limit (OEL). Recommended atotal inhalable dust standard for nuisance dust of 10mg/m³ as an 8 hour Time Weighted Average. See HSE Guidance Notes EH40/0005 and HSG 173.

Molten Material: Will cause burns **Fire and thermal decomposition products:** May emit toxic fumes of Ammonia and oxides of sulphur under intense heat.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product may contain some or all of the following ingredients:

Ammonium sulphate, urea, mono and di-ammonium phosphate, normal (single) superphosphate, triple superphosphate, Ferrous Sulphate, potassium chloride (muriate of potash), potassium sulphate, Lignite, organic base, calcium sulphate, and coating materials, such as oil, amine, clay or talc, and secondary nutrients.

4. FIRST AID MEASURES :

Product Skin contact. Wash the affected area with soap and water.

Eye contact. Irrigate eyes with copious amounts of eyewash solution or water for at least 10 minutes. Obtain medical advice if symptoms persist.

Ingestion. DO NOT induce vomiting. Give milk or water to drink. Obtain medical attention if more than small quantities have been swallowed.

Inhalation. Remove from source of exposure to dust. Keep warm and at rest. Obtain medical advice if symptoms persist.

ProductsSkin contact. Wash areas in contact with molten material. Wash copiously with cold water. Seek medical advice. **Inhalation.** Remove from source of exposure to fumes. Keep warm and at rest.

5. FIRE FIGHTING MEASURES:

When the fertilizer is not directly involved in the fire use the best means available to control the fire.

When the fertilizer is involved:-

* Evacuate the area * Avoid breathing the fumes. Wear an approved self-contained breathing apparatus when fighting a fire or when fumes are being emitted * Call the fire brigade * Fight the fire from upwind and from outside the buildings, if possible * Open doors and windows to give maximum ventilation * Use plenty of water * Where combustible material

is the source of the fire, extinguish this source as a matter of priority.

* Do not allow molten fertilizer to run into drains * If fire run-off water enters any drains or water courses, inform the appropriate water authority immediately.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions. Do not smoke. Avoid dust inhalation. Avoid contact with decomposition products. ProtectionEnvironmental protection: Clean up spillage promptly and place in a clean appropriately labelled container. Do not allow to mix with combustible or organic substances. Inform the appropriate water authority in the event of accidental watercourse contamination. **Methods for and cleaning up Clean-up procedures:** Wash contaminated area with large quantities of water.

7. HANDLING & STORAGE:

HandlingAvoid prolonged contact with skin. Avoid producing and inhaling dust, see also section 8. Avoid contamination by materials such as diesel oil, grease and other combustible and incompatible materials. Avoid unnecessary exposure to the atmosphere to prevent moisture pick-up. Avoid application of heat. **Storage** The basic requirements are the avoidance if involvement in a fire or contamination. Locate away from sources of heat, fire or explosion. Keep away from combustible materials and chemical substances taking particular care on farms to ensure that it is not stored near straw, grain, diesel, etc. Ensure high standard of house-keeping in the storage areas. DO NOT permit smoking or the use of naked lights in the storage area. Ensure that any contaminated product or spillage is segregated from normal product and disposed of in conformity with section 14. Buildings used for storage should be dry and well ventilated; stacks therein should be at least 1 metre from walls, eaves and beams. **Packaging materials** Polyethylene (PE), Polypropylene (PP) and PTFE

8. Workplace Exposure Limits (WEL) EH40/2005 Workplace Exposure Limits (published by HSE) specify for dust: TWA 10mg/m³ (inhalable), TWA 4mg/m³ (respirable) **Precautionary and engineering measures** Avoid high dust concentration and provide ventilation where necessary. **Personal protection** Wear suitable gloves when handling product over long periods. Use suitable dust respirator if dust concentration is high. After handling product, wash hands and observe good hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White grey or brown granules unless deliberately coloured during manufacture. **Odour:** Odourless. **pH water solution:** Usually > 4.5 – 6.0 **Bulk Density:** Normally between 900-1100 kg/m³ **Solubility in water:** Soluble in water, extent depends on composition. Most formulations are hygroscopic.

10. STABILITY AND REACTIVITY:

Stability: Stable under normal conditions of storage, handling and use. **Conditions to avoid:** High temperatures, contamination by incompatible/ combustible materials, application of heat and confinement e.g. welding or hot work on equipment or plant which may have contained fertilizer without first washing thoroughly to remove all fertilizer. **Materials to avoid:** Combustible and incompatible materials. Strong oxidising agents, alkalis and acids. Hazardous decomposition products:

11 TOXICOLOGICAL INFORMATION

Acute toxicity: Products can be expected to be of low toxicity, but prolonged skin or eye contact may cause some irritation.

Ammonium sulphate: LD50 (oral, rat) > 2000mg/kg. **Urea:** LD50 (oral, rat) > 14300mg/kg **Methylene Urea:** LD50 (oral, rat) > 10000mg/kg **Monoammonium phosphate:** LD50 (oral, rat) > 2000mg/kg **Diammonium phosphate:** LD50 (oral, rat) > 2000mg/kg **Potassium chloride or sulphate:** LD50 (oral, rat) > 2000mg/kg **Ferrous sulphate:** LD50 (oral, rat) > 1480mg/kg **Single/triple superphosphate:** LD50 (oral, rat) > 2000mg/kg **Contact** Prolonged contact may cause irritation of the skin and mucous tissues. **Inhalation** Prolonged exposure to dust may cause irritation. **Ingestion** Small quantities unlikely to cause toxic effect. Large quantities may give rise to gastro-intestinal disorders. **Sensitisation** None reported. **Chronic or long-term effects** None reported.

/continued over

12. ECOLOGICAL INFORMATION:

Toxicity/Ecotoxicity values: Low toxicity to aquatic life. **Mobility:** Fertilizers partially soluble in water. **Persistence / Degradability** The ammonium ion is adsorbed by soil particles. Phosphates, whether water or citrate soluble, are translocated in the soil over very short distances and are then immobilised. The dissolved potassium ion in the soil solution is adsorbed by clay minerals; where these are absent in light soils part of the potassium may be leached. **Bio-accumulation** This product does not show and bio-accumulation phenomena. **Other data:** Keep away from water courses, report any accidental contamination of water courses to the authorities.

13. DISPOSAL CONSIDERATIONS:

Depending on the degree and nature of contamination/physical deterioration and quantity of the material, dispose of by use on turf area as a fertilizer on turf area, by spreading thinly on open ground or alternatively to an authorised waste facility. Take care to avoid the contamination of watercourses and drains. Measures should be taken to completely empty the bag of its contents, ensuring that residue of fertilizers do not contaminate the packaging during disposal (incineration, recycling, land fill etc).

14. TRANSPORT INFORMATION

UN classification Not classified, i.e. considered non-hazardous material to UN Orange Book and international transport codes e.g. RID (rail), ADR (road), and IMDG (sea). DO NOT transport with combustible materials, see 10.3. Ensure that the transport is clean before loading the product.

15. REGULATORY INFORMATION

EC Regulations & Directives Regulation 2003/2003/EC relating to fertilizers, OJ 304/1 20.11.2003. **National Regulations** The Fertilizer Regulations 1991, SI No. 2197 (as amended in 1995 and 1998). The EC Fertilizers (England and Wales) Regulations 2006, SI No. 2486.

16. OTHER INFORMATION

Sources of Data and References Guidance for the Storage, Handling and Transportation of Solid Mineral Fertilizers (EFMA), 2007.

This safety data sheet provides health and safety information. The product is to be used in applications consistent with best practice. Individuals handling this product should be informed under COSHH of the recommended safety precautions and should have access to this information. The product information in this data sheet is to the best of INTURF'S knowledge correct as at the date of publication.

The Manufacturer or Supplier does not accept liability for any loss or damage (other than that arising from death or personal injury caused by negligence if proved) resulting from reliance on this information. Further information on individual products covered by this safety data sheet may be obtained from the Supplier or the Company whose name, address and telephone number will be found on the fertilizer container.

The safety data sheet provides health and safety information.

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