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## SAFETY DATA SHEET

29/11/11

### PRODUCT IDENTIFICATION

Trade Name:	Outfield 20-10-10
Product Description:	NPK Fertiliser Blend
UN Classification:	Not in hazardous category
Transport Classification:	Not applicable

### PHYSICAL PROPERTIES

Form:	Solid granules
Colour:	Light brown/grey
Bulk Density:	Approx. 1,000kg / m <sup>3</sup>
Solubility:	Soluble in water. Slightly hygroscopic.

### CHEMICAL & THERMAL PROPERTIES

#### Chemical Properties:

Stable under normal storage and handling conditions. Liberates ammonia when in contact with alkalies e.g. caustic soda, soda ash.

#### Effects of Heat & Fire:

Not in itself combustible. Melts and decomposes when heated strongly and molten material may be formed. On decomposition gives off copious toxic fumes which may contain oxides of nitrogen, ammonia, hydrogen chloride, ammonium chloride, chlorine, oxides of sulphur and other similar gases. Decomposition is accelerated by a number of substances such as acids; carbonaceous materials; chromates; zinc, copper and their alloys; chlorates and reducing agents.



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## Explosive Behaviour:

Heating under strong confinement (e.g. in tubes or drains) may lead to a violent reaction or explosion, especially if there is contamination by substances mentioned in 'Effects of Heat and Fire'.

## FIRE FIGHTING

When the fertiliser is not directly involved in the fire use the best means available to control the fire. When the fertiliser is involved: ♦ Avoid breathing the fumes, if possible wear approved breathing apparatus ♦ Call the Fire Brigade ♦ Do not use chemical or foams or attempt to smother the fire with steam or sand ♦ If safe to do so, prevent the contamination of the fertiliser by oil and other combustible materials ♦ Open doors and windows to give maximum ventilation ♦ Use plenty of water ♦ Do not allow molten fertiliser to run into drains. If water containing fertiliser enters drain or water course inform the water authority as soon as possible.

NOTE ALSO FIRST AID PRECAUTIONS.

## HEALTH HAZARDS

General:

Of low toxicity but may cause irritation to the skin, eyes and respiratory tract.

Skin Contact:

Prolonged skin contact may cause some irritation.

Eye Contact:

May cause irritation following prolonged contact with the eyes.

Ingestion:

Small quantities are unlikely to cause toxic effect. Large quantities may give rise to gastrointestinal disorders and in extreme cases (particularly in children) formation of methaemoglobin (blue baby syndrome) and cyanosis (indicated by blueness around the mouth).



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Inhalation: Low toxicity dust but high concentration of air-borne material may cause irritation of the upper respiratory tract such as sore throat and coughing.

Long Term Effects: No adverse effects known.

Occupation Exposure Limit: Generally regarded as nuisance dust.

### Fumes and Thermal Decomposition Products

Skin contact:  
Molten material will cause burns.

Inhalation:  
Inhalation of decomposition gases (e.g. in a fire) may cause serious lung effects.

### FIRST AID

Skin Contact: Wash the affected area with water.

Eye Contact: Irrigate eyes with copious amounts of eyewash solution or water for at least 10 minutes.

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 rest.

**OBTAIN MEDICAL ADVICE IF ANY OF THE ABOVE SYMPTOMS PERSIST**



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## Fire and Thermal Decomposition Products

### Skin Contact:

Wash areas in contact with molten materials copiously with cold water.  
Seek medical advice.

### Inhalation:

Remove from source of exposure of fumes. Keep warm and rest. Persons who have inhaled decomposition gasses (e.g. in a fire) should seek medical advice and be kept under medical supervision for at least 48 hours.

## PRECAUTIONS FOR STORAGE, HANDLING & USE

DO NOT weld or apply heat to equipment or plant which may have contained the fertiliser without first washing thoroughly to remove ALL fertiliser.

### Storage:

The basic requirements are the avoidance on involvement in a fire and contamination. Locate away from sources of heat, fire and explosion. Keep away from combustible materials and chemical substances, taking particular care on farms to ensure that it is not stored near hay, straw, grain, diesel oil or other combustible materials. Ensure high standard of housekeeping in the storage areas.

DO NOT permit smoking or the use of naked lights in the storage area. Buildings used for storage should be dry and well ventilated. Stacks should be kept at least one meter from walls, eaves and beams.

### Handling:

Avoid excessive generation of dust. Avoid contamination by materials such as diesel oil, grease and other combustible materials. Avoid unnecessary exposure to the atmosphere to prevent moisture pick-up.

### Personal Protection:

Use approved dust respirators if airborne dust concentrations are liable to exceed recommended limits. Wear gloves when handling the products over long time periods.

### Use:

Use in accordance with manufacturers advice.  
Do not exceed recommended rates of application.





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## TRANSPORT

Avoid transport with other materials where there is an undue risk of contamination. Ensure that the transport is clean before loading the product.

## SPILLAGE

Spillage should be cleaned up promptly. Sweep up and place in a clean appropriately labelled on the container. Depending degree of contamination, dispose of by use on farm, by spreading thinly on open ground or to an authorised waste facility. Take care to avoid the contamination of watercourses and drains and inform appropriate water authority in case of accidental watercourse contamination.

## USER RESPONSIBILITY

This safety data sheet provides health and safety information. The product is to be in applications consistent with company advice. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. Please consult company sales office for any further advice. To the best of the company's knowledge the information contained in this data sheet is correct at the time of publication. The user should contact the company for updated advice and in any event must be satisfied that the product is entirely suitable for its intended use. The company accepts no liability for any loss or damage resulting from reliance on this information.

