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## MATERIAL HEALTH & SAFETY DATA SHEET

#### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product trade names:

'Broadleaf P4' & 'Broadleaf Root Dip.'

Supplier:

Agricultural Polymers International Ltd

Waverley House, Waverley Road, Gloucester. GL2 0SZ,

UK.

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### 2. PRODUCT CHEMICAL TYPE & DESCRIPTION

Synthetic, high molecular weight, X-linked superabsorbent polymer. White, free-flowing, angular granules. Broadleaf P4: 80% in the size

range 500 -2800μ. Root Dip: 80% <200μ.

## 3. HAZARD INFORMATION

Product that has been spilt and becomes wet can present a hazardous, slippery surface.

### 4. FIRST AID PROCEDURES

Inhalation There are no hazards that require special first aid procedures. Skin contact There are no hazards that require special first aid procedures. Eye contact Rinse the affected eye with copious amounts of water for several

minutes to ensure all product is removed. Consult a physician if

irritation persists.

Ingestion Rinse mouth with water but do not swallow; emetics are not

necessary; the product is not considered toxic based on laboratory

studies on animals.

#### 5. FIRE-FIGHTING PROCEDURES

Extinguishing materials Water, foam, carbon dioxide, dry powder.

Extinguishing materials to None.

avoid

Precautions Product that has been spilt and becomes wet can present a

hazardous, slippery surface.

Protective equipment for

fire-fighters

No special equipment needed.

## 6. ACCIDENTAL SPILLAGE PRECAUTIONS

Personal precautions None needed Environmental None needed

Cleaning-up procedures Spillages should be swept, vacuumed or shovelled-up dry.

Spillages of the hydrated gel should be similarly treated and final

traces flushed away with water.

#### 7. HANDLING & STORAGE

Handling Products are non-toxic but normal industrial hygiene precautions

should be observed during handling. Do not breathe dust. Wash

hands at start of breaks and close of shift.

Storage Store under cool, dry conditions, 0-30°C, away from direct contact.

with sunlight

### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Occupational Exposure
Limits:

The EDANA Industrial Hygiene Guideline is 0.05 mg/m³ respirable superabsorbent polymer dust (respirable dust is <10µ).

Personal protection equipment

Respiratory protection
 In confined spaces respiratory (dust) masks and goggles should be worn, particularly if dust concentration is more than 10mg/m³.

Hand protection None needed but rubber gloves if desired.

Eye protection
 Safety goggles when bulk-handling. Contact lenses should not be

worn.

Skin and body No special protective clothing is required. protection

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form Granules
Colour White
Odour None
pH Neutral

Melting point (°C)

Flashpoint (°C)

Auto ignition point (°C)

Vapour pressure (mm Hg)

Bulk density

Not applicable

Not applicable

0.76 - 0.8 approx.

Solubility Insoluble in water, acetone, ether and most other organic solvents.

## 10. STABILITY AND REACTIVITY

Stability Very stress resistant and will not powder during normal handling.

Materials to avoid Oxidising agents may cause exothermic reactions.

Hazardous decomposition Anoxic thermic decomposition conditions may produce HCN.

#### 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Oral LD50/oral/rat >8200mg/kg

Dermal Non-toxic.

Irritation

Skin Non-irritant.

Eyes Draize-testing showed no corneal effects. Slight transient

conjunctival effect.

**Sensitisation** Non-sensitising to humans and guinea pigs.

Chronic Toxicity Two year feeding trials with rats and dogs using anionic

polyacrylamide containing 0.07% residual acrylamide monomer have shown unequivocal "no ill effect" at levels of 1% w/w in the diet of rats and 5-6% in the diet of dogs. At dietary concentrations up to 10% w/w no adverse reactions occurred in either species other than those attributable indirectly to the large, hydrophilic, non-nutritive bulkiness of the materials. Additional C14 radiotracer studies with rats have shown no absorption of polyacrylamide

through the walls of the intestinal tract.

## 12. ECOLOGICAL INFORMATION

Eco-toxicity

No damage to the environment is likely in normal usage.

Persistence/degradability

Biodegradable over several years leaving no toxic residues.

## 13. DISPOSAL CONSIDERATIONS

Waste from In accordance with statutory requirements.

residues/unused products

Used packaging Can be incinerated or landfilled.

#### 14. TRANSPORT INFORMATION

Not hazardous for transport.

## 15. REGULATORY INFORMATION

These products are nonhazardous and require no special labelling to meet EC directives.

The details provided in this document conform to EC requirements. Users of these products should check that the information provided is serviceable for their requirements and contact us if further details are required.

Agricultural Polymers International Limited make no warranty and assume no responsibility for the accuracy and completeness of this information.

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