

# SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

Page 1/6

**Root +**

Revision

Revision date

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

|                     |        |
|---------------------|--------|
| <b>Product name</b> | Root + |
|---------------------|--------|

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

|                    |            |
|--------------------|------------|
| <b>Description</b> | Fertiliser |
|--------------------|------------|

### 1.3. Details of the supplier of the safety data sheet

|                  |  |
|------------------|--|
| <b>Company</b>   | Metrop Agrotechniek                                  |
| <b>Address</b>   | Edisonweg 32<br>3404LC<br>IJsselstein<br>Netherlands |
| <b>Web</b>       | www.metrop.net                                       |
| <b>Telephone</b> | +31 (0)30 6877274                                    |
| <b>Fax</b>       | +31 (0)30 6877423                                    |
| <b>Email</b>     | info@metrop.nl                                       |

### Local Supplier

|                  |  |
|------------------|--|
| <b>Company</b>   |  |
| <b>Address</b>   |  |
| <b>Web</b>       |  |
| <b>Telephone</b> |  |
| <b>Fax</b>       |  |
| <b>Email</b>     |  |

### 1.4. Emergency telephone number

|                                   |                                      |
|-----------------------------------|--------------------------------------|
| <b>Emergency telephone number</b> | +31 (0)30 6877274<br>09:00-17:00 GMT |
|-----------------------------------|--------------------------------------|

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

|                     |                       |
|---------------------|-----------------------|
| <b>Main hazards</b> | No Significant Hazard |
|---------------------|-----------------------|

### 2.2. Label elements

|                     |                        |
|---------------------|------------------------|
| <b>Risk phrases</b> | No Significant Hazard. |
|---------------------|------------------------|

### 2.3. Other hazards

|                      |       |
|----------------------|-------|
| <b>Other hazards</b> | None. |
|----------------------|-------|

**SECTION 3: Composition/information on ingredients****Further information**

|                    |   |
|--------------------|---|
| <b>Ingredients</b> | This product does not contain any substances classified as hazardous to health. |
|--------------------|---|

**SECTION 4: First aid measures****4.1. Description of first aid measures**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | May cause irritation to mucous membranes. Move the exposed person to fresh air.   |
| <b>Eye contact</b>  | May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes. Keep the eyelids open. Seek medical attention if irritation or symptoms persist.     |
| <b>Skin contact</b> | May cause irritation to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist. |
| <b>Ingestion</b>    | May cause irritation to mucous membranes. DO NOT INDUCE VOMITING. Seek medical attention if irritation or symptoms persist.   |

**4.2. Most important symptoms and effects, both acute and delayed**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | May cause irritation to respiratory system. |
| <b>Eye contact</b>  | May cause irritation to eyes.               |
| <b>Skin contact</b> | May cause irritation to skin.               |
| <b>Ingestion</b>    | May cause irritation to mucous membranes.   |

**4.3. Indication of any immediate medical attention and special treatment needed**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Inhalation of vapour may cause shortness of breath. Seek medical attention if irritation or symptoms persist. |
| <b>Eye contact</b>  | Rinse immediately with plenty of water.   |
| <b>Skin contact</b> | No sensitization effects reported. Wash with soap and water.  |
| <b>Ingestion</b>    | May cause irritation to mucous membranes.   |

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

|  |   |
|--|---|
|  | Use extinguishing media appropriate to the surrounding fire conditions. |
|--|---|

**5.2. Special hazards arising from the substance or mixture**

|  |   |
|--|---|
|  | Burning produces irritating, toxic and obnoxious fumes. |
|--|---|

**5.3. Advice for firefighters**

|  |   |
|--|---|
|  | Wear suitable respiratory equipment when necessary. |
|--|---|

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

|  |  |
|--|--|
|  | Ensure adequate ventilation of the working area. |
|--|--|

**6.2. Environmental precautions**

|  |   |
|--|---|
|  | Do not allow product to enter drains. Prevent further spillage if safe. |
|--|---|

**6.3. Methods and material for containment and cleaning up**

|  |  |
|--|--|
|  | Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled container for disposal. Clean spillage area thoroughly with plenty of water. |
|--|--|

**6.4. Reference to other sections**

|  |   |
|--|---|
|  | See section 2, 8, 13 for further information. |
|--|---|

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. See best Manual Handling considerations when handling, carrying and dispensing.


**7.2. Conditions for safe storage, including any incompatibilities**

Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in clearly labelled containers.

**7.3. Specific end use(s)**

Fertiliser.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****8.2. Exposure controls**

|   |   |
|---|---|
|   |  |
| 8.2.1. Appropriate engineering controls | Ensure adequate ventilation of the working area.                                  |
| 8.2.2. Individual protection measures   | Wear protective clothing.   |
| Eye / face protection                   | In case of splashing, wear: Approved safety goggles.                              |
| Skin protection - Handprotection        | Chemical resistant gloves (PVC).  |

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                                 |                       |
|---------------------------------|-----------------------|
| <b>Appearance</b>               | Liquid                |
| <b>Colour</b>                   | Clear yellow to brown |
| <b>odour</b>                    | Characteristic        |
| <b>pH</b>                       | 2.0 - 3.0             |
| <b>Melting point</b>            | No data available     |
| <b>Initial boiling point</b>    | 100°C                 |
| <b>Flash point</b>              | Not applicable        |
| <b>Evaporation rate</b>         | No data available     |
| <b>Flammability limits</b>      | Not applicable        |
| <b>Vapour Flammability</b>      | No data available     |
| <b>Vapour pressure</b>          | No data available     |
| <b>Vapour density</b>           | No data available     |
| <b>Partition coefficient</b>    | Not applicable        |
| <b>Autoignition temperature</b> | Not applicable        |
| <b>Viscosity</b>                | No data available     |
| <b>Explosive</b>                | Not applicable        |
| <b>Oxidising</b>                | Not applicable        |
| <b>Solubility</b>               | Soluble in water      |

**9.2. Other information**

|   |                   |
|---|-------------------|
| <b>Conductivity</b>                     | no data available |
| <b>Surface tension</b>                  | no data available |
| <b>Gas group</b>                        | no data available |
| <b>Benzene Content</b>                  | no data available |
| <b>Lead content</b>                     | no data available |
| <b>VOC (Volatile organic compounds)</b> | no data available |

**Water solubility**

|  |                   |
|--|-------------------|
|  | Soluble in water. |
|--|-------------------|

**SECTION 10: Stability and reactivity****10.1. Reactivity**

|  |                                   |
|--|-----------------------------------|
|  | Avoid contact with: Strong bases. |
|--|-----------------------------------|

**10.2. Chemical stability**

|  |                                 |
|--|---------------------------------|
|  | Stable under normal conditions. |
|--|---------------------------------|

**10.3. Possibility of hazardous reactions**

|  |                                       |
|--|---------------------------------------|
|  | No data is available on this product. |
|--|---------------------------------------|

**10.4. Conditions to avoid**

|  |  |
|--|--|
|  | Burning produces obnoxious and irritating fumes. |
|--|--|

**10.5. Incompatible materials**

|  |               |
|--|---------------|
|  | Strong bases. |
|--|---------------|

**10.6. Hazardous decomposition products**

|  |                                    |
|--|------------------------------------|
|  | No data available on this product. |
|--|------------------------------------|

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

|                                 |   |
|---------------------------------|---|
| <b>LD 50 oral (rat):</b>        | Not greater than 2000 mg/kg. Classified as "low oral toxicity". No death.         |
| <b>LD 50 oral (mouse):</b>      | > 2000 mg/Kg. No death.   |
| <b>Oral to CD rats 4 weeks:</b> | Up to 4000 mg/kg/day did not elicit any evidence of toxicity. No death. No LD.50  |
| <b>Oral to dogs 4 weeks:</b>    | Up to 2500 mg/Kg/day did not elicit any evidence of toxicity. No death.           |
| <b>Mutagenicity:</b>            | Not mutagenic or neoplastic. No mutagenic activity in histidine auxotrophos of S. |
| <b>Carcinogenicity:</b>         | Not carcinogenic.   |
| <b>Teratogenicity:</b>          | Not teratogenic   |

**SECTION 12: Ecological information****12.1. Toxicity**

|  |  |
|--|--|
|  | <b>Fish LC50/96h:</b> LC50 >3000 mg/L LDO >2.344 mg/L LD100 >300 |
|--|--|

**12.2. Persistence and degradability**

|  |                        |
|--|------------------------|
|  | Readily biodegradable. |
|--|------------------------|

**12.3. Bioaccumulative potential**

|  |                                       |
|--|---------------------------------------|
|  | No data is available on this product. |
|--|---------------------------------------|

**12.4. Mobility in soil**

|  |                    |
|--|--------------------|
|  | Miscible in water. |
|--|--------------------|

**12.5. Results of PBT and vPvB assessment**

|  |   |
|--|---|
|  | Caution - substance not yet fully tested. |
|--|---|

**12.6. Other adverse effects**

|  |   |
|--|---|
|  | May cause long-term adverse effects in the aquatic environment. |
|--|---|

**SECTION 13: Disposal considerations****General information**

|  |   |
|--|---|
|  | Dispose of in compliance with all local and national regulations. |
|--|---|

**Disposal methods**

|  |  |
|--|--|
|  | Contact a licensed waste disposal company. |
|--|--|

**Disposal of packaging**

|  |   |
|--|---|
|  | Do NOT reuse empty containers. Empty containers can be sent for disposal or rec |
|--|---|

**SECTION 14: Transport information****ADR/RID**

|  |  |
|--|--|
|  | The product is not classified as dangerous for carriage. |
|--|--|

**IMDG**

|  |  |
|--|--|
|  | The product is not classified as dangerous for carriage. |
|--|--|

**IATA**

|  |  |
|--|--|
|  | The product is not classified as dangerous for carriage. |
|--|--|

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Regulations**

|  |  |
|--|--|
|  | REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. |
|--|--|

**15.2. Chemical safety assessment**

|  |                                       |
|--|---------------------------------------|
|  | No data is available on this product. |
|--|---------------------------------------|

**SECTION 16: Other information****Other information**

|                 |   |
|-----------------|---|
| <b>Revision</b> | This document differs from the previous version in the following areas:<br>3 - Ingredients. |
|-----------------|---|

**Further information**

|  |   |
|--|---|
|  | The information supplied in this Safety Data Sheet is designed only as guidance for the safe storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. |
|--|---|

**Other information**

|  |  |
|--|--|
|  | 9 - 9.1. Information on basic physical and chemical properties (Solubility).<br>9 - 9.2. Other information (Conductivity). |
|--|--|

|   |  |
|---|--|
| <p><b>Text of risk phrases in Section 3</b></p> | <p>9 - 9.2. Other information (Partition coefficient).<br/> 9 - 9.2. Other information (Gas group).<br/> 9 - 9.2. Other information (Surface tension).<br/> 9 - 9.2. Other information (Benzene Content).<br/> 9 - 9.2. Other information (Product Subcategory).<br/> 9 - 9.2. Other information (Lead content).<br/> 16 - Maximum content of VOC.</p>   |
| <p><b>Further information</b></p>               | <p>The information supplied in this Safety Data Sheet is designed only as guidance for use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other circumstances.</p> |

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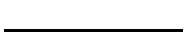
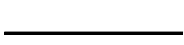
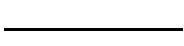
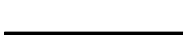
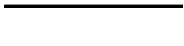


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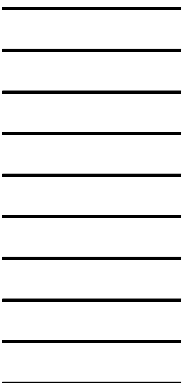


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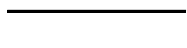
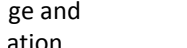
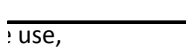
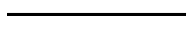
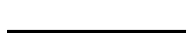
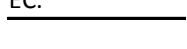
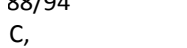
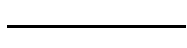
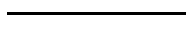
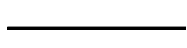
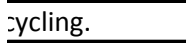
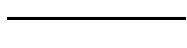
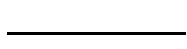


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