

**SAFETY DATA SHEET**  
**BNM Growise PRO5 900g & 2.5kg & 7kg**

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

**1.1. Product identifier**

<b>Product name</b>	BNM Growise PRO5 900g & 2.5kg & 7kg
<b>Product number</b>	7518D (900g), 7519D (2.5kg), 7520D (7kg)
<b>REACH registration notes</b>	Exempt from REACH registration according to Regulation (EC) No. 1907/2006 (REACH)

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

<b>Identified uses</b>	Fertiliser
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**1.3. Details of the supplier of the safety data sheet**

<b>Supplier</b>	Bord Na Mona Horticulture Main Street, Newbridge, Co. Kildare, Ireland Tel: +353 (0) 45 439 886 - Mon to Fri 9am - 5pm customersupport@bnm.ie; www.bordnamonahorticulture.ie Fax: +353 (0) 45 439 001
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**1.4. Emergency telephone number**

<b>Emergency telephone</b>	+44 800 973 555 (Emergency)
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**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification**

<b>Physical hazards</b>	Not Classified
<b>Health hazards</b>	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319
<b>Environmental hazards</b>	Aquatic Chronic 3 - H412

**2.2. Label elements**

**Pictogram**



<b>Signal word</b>	Warning
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<b>Hazard statements</b>	H315 Causes skin irritation. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.
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## BNM Growise PRO5 900g & 2.5kg & 7kg

<b>Precautionary statements</b>	<p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P332+P313 If skin irritation occurs: Get medical advice/attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P501 Dispose of contents/container in accordance with national regulations.</p>
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### 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>Xtra Organic</b>	<b>10-30%</b>
CAS number: —	
<b>Classification</b>	
Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	
<b>SSP Single Superphosphate</b>	<b>10-30%</b>
CAS number: 8011-76-5                      EC number: 232-379-5                      REACH registration number: 01-2119488967-11-XXXX	
<b>Classification</b>	
Eye Irrit. 2 - H319	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xi; R41
<b>Copper Sulphate</b>	<b>&lt;1%</b>
CAS number: 7758-99-8                      EC number: 231-847-6	
M factor (Acute) = 10                      M factor (Chronic) = 10	
<b>Classification</b>	
Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn; R22. Xi; R36/38. N; R50/53
<b>Boric acid (boron)</b>	<b>&lt;1%</b>
CAS number: 10043-35-3                      EC number: 233-139-2                      REACH registration number: 01-2119486683-25-XXXX	
<b>Classification</b>	
Repr. 1B - H360FD	<b>Classification (67/548/EEC or 1999/45/EC)</b> Repr. Cat. 1 R60, R61

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## BNM Growise PRO5 900g & 2.5kg & 7kg

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Inhalation</b>	Get medical attention if symptoms are severe or persist.
<b>Ingestion</b>	Get medical attention if symptoms are severe or persist.
<b>Skin contact</b>	Wash skin thoroughly with soap and water or use an approved skin cleanser. Get medical attention if symptoms are severe or persist after washing.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 10 minutes. Get medical attention if symptoms are severe or persist after washing.

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

<b>Inhalation</b>	Dust in high concentrations may irritate the respiratory system.
<b>Ingestion</b>	No harmful effects expected from quantities likely to be ingested by accident.
<b>Skin contact</b>	May cause irritation. Prolonged contact may cause redness, irritation and dry skin.
<b>Eye contact</b>	Prolonged or repeated exposure may cause severe irritation. May cause severe eye irritation.

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

<b>Notes for the doctor</b>	Treat symptomatically.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	Not applicable.

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

<b>Specific hazards</b>	None known.
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#### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	No specific firefighting precautions known.
<b>Special protective equipment for firefighters</b>	Use protective equipment appropriate for surrounding materials.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Avoid inhalation of dust and contact with skin and eyes. Use suitable respiratory protection if ventilation is inadequate. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Take care as floors and other surfaces may become slippery.
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#### 6.2. Environmental precautions

<b>Environmental precautions</b>	Harmful to aquatic life with long lasting effects. Avoid the spillage or runoff entering drains, sewers or watercourses. Avoid discharge to the aquatic environment. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. The product is slowly degradable.
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#### 6.3. Methods and material for containment and cleaning up

## BNM Growise PRO5 900g & 2.5kg & 7kg

**Methods for cleaning up** Take care as floors and other surfaces may become slippery. Collect and dispose of spillage as indicated in Section 13.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Read label before use. Wear appropriate clothing to prevent repeated or prolonged skin contact. Avoid inhalation of dust and contact with skin and eyes.

**Advice on general occupational hygiene** Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet.

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

**Storage precautions** Store in a dry place.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### **Ammonium Sulphate**

Long-term exposure limit (8-hour TWA): LTEL 10Mg/m<sup>3</sup>

##### **Gypsum**

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup> respirable dust

##### **Methylene Urea (Med)**

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust

Long-term exposure limit (8-hour TWA): WEL 3 mg/m<sup>3</sup> respirable dust

##### **Methylene Urea (Short)**

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust

Long-term exposure limit (8-hour TWA): WEL 3 mg/m<sup>3</sup> respirable dust

##### **Manganese Sulphate Mono**

Long-term exposure limit (8-hour TWA): WEL 0.5 mg/m<sup>3</sup>

##### **Boric acid (boron)**

Long-term exposure limit (8-hour TWA): 10 mg/m<sup>3</sup>

##### **Sodium Molybdate**

Long-term exposure limit (8-hour TWA): WEL 5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 10 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

#### Potash (CAS: 7447-40-7)

#### **DNEL**

Workers - Dermal; Short term systemic effects: 580 mg/kg/day

Workers - Dermal; Long term systemic effects: 580 mg/kg/day

Workers - Inhalation; Short term systemic effects: 292 mg/m<sup>3</sup>

Workers - Inhalation; Long term systemic effects: 292 mg/m<sup>3</sup>

## BNM Growise PRO5 900g & 2.5kg & 7kg

**PNEC** Industry - Fresh water; 0,047 mg/l  
- Marine water; 0,047 mg/l

### SSP Single Superphosphate (CAS: 8011-76-5)

**DNEL** Workers - Inhalation; Long term systemic effects: 3.1 mg/m<sup>3</sup>  
Workers - Dermal; Long term systemic effects: 17.4 mg/kg/day  
General population - Inhalation; Long term systemic effects: 0.9 mg/m<sup>3</sup>  
General population - Oral; Long term systemic effects: 2.1 mg/kg/day  
General population - Dermal; Long term systemic effects: 10.4 mg/kg/day

**PNEC** - Fresh water; 1.7 mg/l  
- Marine water; 0.17 mg/m<sup>3</sup>  
- Intermittent release; 17 mg/l  
- STP; 10 mg/l

### Kali Vinasse Powder

**DNEL** Workers - Dermal; Long term systemic effects: 30 mg/kg/day  
Workers - Inhalation; Long term systemic effects: 106 mg/m<sup>3</sup>

**PNEC** - Fresh water; 0.46 mg/l  
- Marine water; 0.046 mg/l  
- Intermittent release; 0.56 mg/l  
- STP; 1 mg/l

### Urea (CAS: 57-13-6)

**DNEL** Consumer - Oral; Long term systemic effects: 42 mg/kg/day  
Consumer - Oral; Short term systemic effects: 42 mg/kg/day  
Consumer - Dermal; Long term systemic effects: 580 mg/kg/day  
Consumer - Dermal; Short term systemic effects: 580 mg/kg/day  
Industry/Professional - Dermal; Long term systemic effects: 580 mg/kg/day  
Industry/Professional - Dermal; Short term systemic effects: 580 mg/kg/day  
Consumer - Inhalation; Long term systemic effects: 125 mg/m<sup>3</sup>  
Consumer - Inhalation; Short term systemic effects: 125 mg/m<sup>3</sup>  
Industry/Professional - Inhalation; Short term local effects: 292 mg/m<sup>3</sup>  
Industry/Professional - Inhalation; Short term systemic effects: 292 mg/m<sup>3</sup>

**PNEC** - Fresh water; 0.47 mg/l  
- Marine water; 0.047 mg/l

### Copper Sulphate (CAS: 7758-99-8)

**DNEL** Industry - Oral; Long term systemic effects: 0.041 mg/kg/day  
Industry - Oral; Short term systemic effects: 0.082 mg/kg/day

### Zinc Sulphate Monohydrate (CAS: 7446-20-0)

**DNEL** Industry - Inhalation; Long term systemic effects: 1 mg/m<sup>3</sup>  
Industry - Dermal; Long term systemic effects: 8.3 mg/kg/day  
Consumer - Oral; Long term systemic effects: 0.83 mg/kg/day  
Professional - Inhalation; Long term systemic effects: 1.3 mg/m<sup>3</sup>  
Consumer - Dermal; Long term systemic effects: 8.3 mg/kg/day

## BNM Growise PRO5 900g & 2.5kg & 7kg

<b>PNEC</b>	<ul style="list-style-type: none"> <li>- Fresh water; 0.0206 mg/l</li> <li>- Marine water; 0.0061 mg/l</li> <li>- Sediment (Freshwater); 235.6 mg/kg</li> <li>- Sediment (Marinewater); 113 mg/kg</li> <li>- Soil; 106.8 mg/kg</li> <li>- STP; 0.0052 mg/l</li> </ul>
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### Boric acid (boron) (CAS: 10043-35-3)

<b>DNEL</b>	<ul style="list-style-type: none"> <li>Industry - Dermal; Long term systemic effects: 68.6 mg/kg/day</li> <li>Industry - Inhalation; Long term systemic effects: 1.45 mg/m<sup>3</sup></li> <li>Consumer - Oral; Long term systemic effects: 0.17 mg/kg/day</li> <li>Consumer - Inhalation; Long term systemic effects: 0.97 mg/m<sup>3</sup></li> <li>Consumer - Oral; Short term systemic effects: 0.17 mg/kg/day</li> <li>Consumer - Dermal; Long term systemic effects: 34.3 mg/kg/day</li> </ul>
<b>PNEC</b>	<ul style="list-style-type: none"> <li>- Fresh water; 1.35 mg/l</li> <li>- Marine water; 1.35 mg/l</li> <li>- Intermittent release; 9.1 mg/l</li> <li>- Sediment; 1.8 mg/kg</li> <li>- Soil; 5.4 mg/kg</li> <li>- STP; 1.75 mg/l</li> </ul>

## 8.2. Exposure controls

### Protective equipment



<b>Appropriate engineering controls</b>	All handling should only take place in well-ventilated areas.
<b>Eye/face protection</b>	Wear eye protection.
<b>Hand protection</b>	Wear protective gloves.
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent repeated or prolonged skin contact.
<b>Hygiene measures</b>	Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.
<b>Respiratory protection</b>	No specific recommendations.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Granules.
<b>Colour</b>	Beige. to Dark brown. or Black.
<b>Odour</b>	Mild.
<b>Odour threshold</b>	Not determined.
<b>pH</b>	Slightly Acidic
<b>Melting point</b>	Not relevant.
<b>Initial boiling point and range</b>	Not relevant.
<b>Flash point</b>	Not relevant.

## BNM Growise PRO5 900g & 2.5kg & 7kg

<b>Evaporation rate</b>	Not relevant.
<b>Flammability (solid, gas)</b>	The product is not flammable.
<b>Vapour pressure</b>	Not relevant.
<b>Vapour density</b>	Not relevant.
<b>Relative density</b>	Not relevant.
<b>Solubility(ies)</b>	Not known.
<b>Partition coefficient</b>	Not known.
<b>Auto-ignition temperature</b>	Not relevant.
<b>Decomposition Temperature</b>	Not relevant.
<b>Viscosity</b>	Not relevant.
<b>Explosive properties</b>	Not relevant.
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.

### 9.2. Other information

**Other information** No information required.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** No test data specifically related to reactivity available for this product or its ingredients.

### 10.2. Chemical stability

**Stability** Stable when stored in a dry place.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** No potentially hazardous reactions known.

### 10.4. Conditions to avoid

**Conditions to avoid** There are no known conditions that are likely to result in a hazardous situation.

### 10.5. Incompatible materials

**Materials to avoid** None known.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** None known.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** No specific test data are available.

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** No specific test data are available.

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** No specific test data are available.

## BNM Growise PRO5 900g & 2.5kg & 7kg

### Skin corrosion/irritation

**Skin corrosion/irritation** Prolonged or repeated exposure may cause severe irritation.

### Serious eye damage/irritation

**Serious eye damage/irritation** Irritation of eyes is assumed. In-vitro testing conducted on products with SSP Content <62%, 2015, Result: Reduced classification to Eye Irritant. Test Guideline OECD 438. This result is less severe than the harmonized classification for Super Phosphates as Eye Damage 1 H318.

### Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

### Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

### Germ cell mutagenicity

**Genotoxicity - in vitro** This substance has no evidence of mutagenic properties.

### Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

### Reproductive toxicity

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met. Contains a small amount of Boron which is a SVHC and may damage fertility and may cause damage to the unborn child.

### Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure. Contains Manganese Sulphate Mono - STOT RE2 - Target Organ - Brain. Supplier information: "MnSO4 is already classified under Directive 67/548/EEC as R48/20/22 and under GHS as STOT RE2. Data exists showing some neurochemical changes at low levels after inhalation exposure for 90 days, together with locomotor changes, around 3mg/m3 concentration, suggesting that significant toxicity could occur at the 20-200 mg/m3 concentration level, which supports the current classification of STOT RE 2 for the inhalation route. "

### Aspiration hazard

**Aspiration hazard** Not anticipated to present an aspiration hazard, based on chemical structure.

### Skin contact

Irritating to skin.

### Eye contact

The product is considered to be a low hazard under normal conditions of use. May cause eye irritation.

## SECTION 12: Ecological Information

### Ecotoxicity

May cause long lasting harmful effects to aquatic life. Contains Manganese Sulphate Mono  
Degrades very slowly in nature.

### 12.1. Toxicity

### 12.2. Persistence and degradability

**Persistence and degradability** The product is slowly degradable.

### 12.3. Bioaccumulative potential

#### Partition coefficient

Not known.

### 12.4. Mobility in soil



## BNM Growise PRO5 900g & 2.5kg & 7kg

**Mobility** No data available.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects** Not relevant.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods** Reuse or recycle products wherever possible. Dispose of waste product or used containers in accordance with local regulations Do not empty into drains.

## SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

No transport warning sign required.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**

No.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

**Transport in bulk according to** Not applicable.

**Annex II of MARPOL 73/78**

**and the IBC Code**

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**EU legislation** Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).  
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) (as amended).

## BNM Growise PRO5 900g & 2.5kg & 7kg

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### SECTION 16: Other information

<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	20/09/2016
<b>Revision</b>	1
<b>SDS number</b>	5564
<b>Risk phrases in full</b>	<p>R22 Harmful if swallowed.</p> <p>R36/38 Irritating to eyes and skin.</p> <p>R41 Risk of serious damage to eyes.</p> <p>R48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.</p> <p>R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>R60 May impair fertility.</p> <p>R61 May cause harm to the unborn child.</p>
<b>Hazard statements in full</b>	<p>H302 Harmful if swallowed.</p> <p>H315 Causes skin irritation.</p> <p>H319 Causes serious eye irritation.</p> <p>H360FD May damage fertility. May damage the unborn child.</p> <p>H400 Very toxic to aquatic life.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p>

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.