



**SAFETY DATA SHEET**  
**BNM Growise All Purpose CRF Granules 800g**

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

**1.1. Product identifier**

**Product name** BNM Growise All Purpose CRF Granules 800g  
**Product number** 7526D  
**REACH registration notes** 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**

**Identified uses** Fertiliser

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

**Supplier** 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

**1.4. Emergency telephone number**

**Emergency telephone** +44 800 973 555 (Emergency)

**SECTION 2: Hazards identification**

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

**Classification**

**Physical hazards** Not Classified  
**Health hazards** Not Classified  
**Environmental hazards** Not Classified

**2.2. Label elements**

**Hazard statements** NC Not Classified

**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>ammonium nitrate</b>		<b>0-45</b>
CAS number: 6484-52-2	EC number: 229-347-8	REACH registration number: 01-2119490981-27-XXXX
<b>Classification</b>		
Ox. Sol. 3 - H272		
Eye Irrit. 2 - H319		

## BNM Growise All Purpose CRF Granules 800g

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

**Composition comments** Contains Borax Decahydrate (CAS; 1303-96-4) <1%. This is a substance from the candidate List of substances of very high concern (SVHC) according to Art.59 (1,10) of REACH regulation EC 1907/2006.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**Inhalation** Get medical attention if symptoms are severe or persist.

**Ingestion** Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting unless under the direction of medical personnel. Get medical attention if symptoms are severe or persist.

**Skin contact** Wash skin thoroughly with soap and water or use an approved skin cleanser. Get medical attention if symptoms are severe or persist after washing.

**Eye contact** 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

**Inhalation** Dust in high concentrations may irritate the respiratory system.

**Ingestion** Symptoms following overexposure may include the following: Diarrhoea. The product is considered to be a low hazard under normal conditions of use.

**Skin contact** Skin irritation should not occur when used as recommended.

**Eye contact** The product is considered to be a low hazard under normal conditions of use. Particles in the eyes may cause irritation and smarting.

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

**Notes for the doctor** Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media** Extinguish with the following media: Water spray.

**Unsuitable extinguishing media** Do not use the following: Foam. Powder. Dry chemicals. Carbon dioxide (CO<sub>2</sub>). Do not attempt to smother the fire with sand or steam.

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

**Specific hazards** None known.

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Nitrous gases (NO<sub>x</sub>). Ammonia or amines. Oxides of sulphur. Oxides of phosphorus.

#### 5.3. Advice for firefighters

**Protective actions during firefighting** Containers close to fire should be removed or cooled with water. Control run-off water by containing and keeping it out of sewers and watercourses. Avoid breathing fire gases or vapours.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

## BNM Growise All Purpose CRF Granules 800g

### SECTION 6: Accidental release measures

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

**Personal precautions** 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.

#### 6.2. Environmental precautions

**Environmental precautions** The product is slowly degradable. The product is not expected to be hazardous to the environment. Avoid the spillage or runoff entering drains, sewers or watercourses.

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

**Methods for cleaning up** Take care as floors and other surfaces may become slippery. Collect spillage with a shovel and broom, or similar and reuse, if possible. Contain and absorb spillage with sand, earth or other non-combustible material. Place waste in labelled, sealed containers. Dispose of contents/container in accordance with national regulations. 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. Prevent accumulation of dust. Protect from moisture.

**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. Keep in a cool, well ventilated place. Do not store near heat sources or expose to high temperatures. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store away from the following materials: Acids. Alkalis. Lime, calcium cyanamide, cement, chlorate, chrolite, hypochloride, nitrite, chlorinated herbicides, coal dust, sulphur, oil, fuel, paint, lacquer, organic peroxide, metal powder, grain, paper, textiles, wool, wood, hay, straw, cardboard, combustibles. Avoid contact with oxidising agents. Protect from moisture. Protect from sunlight.

#### 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

Diiron Tris(sulphate) Exposure Limit 8h, 1mg/m<sup>3</sup> (calculated as Fe)

Borax Decahydrate Exposure Limit 8h 0.5mg/m<sup>3</sup> (calculated as borium)

Copper Sulphate Exposure Limit 8h 1mg/m<sup>3</sup> (Calculated as Cu)

## BNM Growise All Purpose CRF Granules 800g

### DNEL

Ammonium Nitrate:  
 Workers; Inhalation; Long term systemic effects; 37.6mg/m<sup>3</sup> 24hrs  
 workers; Skin contact; Long term systemic effects; 21.3mg/kg 24hrs  
 Consumers; Ingestion; Long term systemic effects; 12.8 mg/kg 24hrs  
 Consumers; Inhalation; Long Term, systemic effects; 11.1mg/m<sup>3</sup> 24hrs  
 Consumers; Skin Contact; Long Term systemic effects; 12.8mg/kg bw/day  
 Copper Sulphate; Short Term Dermal; 137mg/kg bw/day  
 Long Term Oral; 0.041 mg/kg bw/day

### PNEC

Ammonium Nitrate: Fresh Water - 0.45mg/l, Marine Water - 0.045mg/l, Ceiling Limit Value - 4.5mg/l  
 Copper Sulphate; Fresh Water Sediment; 87 mg/l  
 Marine Water Sediment; 676 mg/kg  
 Soil; 65 mg/kg  
 Fresh Water; 7.8µg/l  
 Marine Water; 5.2 µg/l  
 Sewage Treatment plant; 230 µg/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

## 8.2. Exposure controls

### Protective equipment



### Appropriate engineering controls

All handling should only take place in well-ventilated areas. Use mechanical ventilation if there is a risk of handling causing formation of airborne dust.

### Eye/face protection

Wear eye protection. Personal protective equipment for eye and face protection should comply with European Standard EN166.

### Hand protection

Wear protective gloves.

### Other skin and body protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

### Hygiene measures

Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

### Respiratory protection

No specific recommendations. Particulate filters should comply with European Standard EN143.

### Environmental exposure controls

Avoid release to the environment.

## SECTION 9: Physical and Chemical Properties

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

Appearance	Granules.
Colour	Brownish.
Odour	Odourless.
Odour threshold	Not determined.
pH	Slightly Acidic

## BNM Growise All Purpose CRF Granules 800g

<b>Melting point</b>	>210°C
<b>Initial boiling point and range</b>	Not relevant.
<b>Flash point</b>	Not relevant.
<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>	900-1200 kg/M3
<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** Alkalis. Acids. Oxidising materials. Organic compounds. Reducing agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Does not decompose when used and stored as recommended.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Ammonium Nitrate; LD50 Oral Rat >5000mg/kg bw/d Boric Acid (Read across data); LD50 Oral Rat 2660 mg/kg Copper Sulphate; LD50 Oral Rat >400 mg/kg

## BNM Growise All Purpose CRF Granules 800g

### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Ammonium Nitrate; LD50 Dermal Rat >2950 mg/kg bw Boric Acid (Read across data); LD50 Dermal Rabbit >200 mg/kg Copper Sulphate; LD50 Dermal Rabbit >2000mg/kg

### Acute toxicity - inhalation

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

### Skin corrosion/irritation

**Skin corrosion/irritation** Based on available data the classification criteria are not met.

### Serious eye damage/irritation

**Serious eye damage/irritation** Based on available data the classification criteria are not met.

### Respiratory sensitisation

**Respiratory sensitisation** No specific test data are available.

### 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** No specific test data are available.

### Reproductive toxicity

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met.

### 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.

### Aspiration hazard

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

**General information** No specific health hazards known.

## SECTION 12: Ecological Information

**Ecotoxicity** The product is not expected to be toxic to aquatic organisms.

### 12.1. Toxicity

**Acute toxicity - fish** Supplier's information.  
Copper Sulphate; LC50 Fish 0.09 mg/l (96h; pisces)  
Ammonium Nitrate; LC50 Fish (fresh water) 447 mg/l (48h)

**Acute toxicity - aquatic plants** Copper Sulphate; EC50 Fresh Water 0.0211 mg/l (4 days Aquatic Plants)  
Ammonium Nitrate; EC50 Salt Water 1700 mg/l (10 days aquatic plants)

### 12.2. Persistence and degradability

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

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No bioaccumulation or biomagnifications are expected based on substance properties.

## BNM Growise All Purpose CRF Granules 800g

**Partition coefficient** Not known.

### 12.4. Mobility in soil

**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** May cause eutrophication.

## 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** The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Dispose of contents/container 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). As supplied, this product is consigned under the Limited Quantities provisions.

### 14.1. UN number

**UN No. (ADR/RID)** Ammonium Nitrate; UN 2071

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** Ammonium Nitrate Based Fertiliser n.o.s (ammonium nitrate)

### 14.3. Transport hazard class(es)

**ADR/RID class** 2071

**ADR/RID label** 9

### 14.4. Packing group

**ADR/RID packing group** III

### 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 Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## BNM Growise All Purpose CRF Granules 800g

### 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).

#### 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>	26/09/2016
<b>Revision</b>	1
<b>Supersedes date</b>	26/09/2016
<b>SDS number</b>	5612
<b>Hazard statements in full</b>	H272 May intensify fire; oxidiser. H319 Causes serious eye irritation.

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.