

**SAFETY DATA SHEET**  
**BNM Growise Sulphate of Iron 1.5kg**

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

**1.1. Product identifier**

<b>Product name</b>	BNM Growise Sulphate of Iron 1.5kg
<b>Product number</b>	7513D
<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>	Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319
<b>Environmental hazards</b>	Not Classified

**2.2. Label elements**

**Pictogram**



<b>Signal word</b>	Warning
<b>Hazard statements</b>	H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation.

## BNM Growise Sulphate of Iron 1.5kg

<b>Precautionary statements</b>	<p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.</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>P330 Rinse mouth.</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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**Contains** Ferrous Sulphate Heptahydrate

### 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>Ferrous Sulphate Heptahydrate</b>	<b>60-100%</b>
CAS number: 7782-63-0	EC number: 231-753-5
<b>Classification</b>	
Acute Tox. 4 - H302	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	

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

## 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 immediately. Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink.
<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

**Notes for the doctor** Treat symptomatically.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media** The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media** Not applicable.

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

**Specific hazards** Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

#### 5.3. Advice for firefighters

**Protective actions during firefighting** Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Control run-off water by containing and keeping it out of sewers and watercourses.

**Special protective equipment for firefighters** Use protective equipment appropriate for surrounding materials. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### 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** Do not discharge into drains or watercourses or onto the ground. Avoid the spillage or runoff entering drains, sewers or watercourses. The product is slowly degradable. The product is not expected to be hazardous to the environment. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

#### 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. 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. Keep away from heat. Keep away from flammable and combustible materials.

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

## BNM Growise Sulphate of Iron 1.5kg

**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

#### 8.2. Exposure controls

##### Protective equipment



##### Appropriate engineering controls

All handling should only take place in well-ventilated areas.

##### 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. To protect hands from chemicals, gloves should comply with European Standard EN374.

##### 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

Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Particulate filter, type P3.

### SECTION 9: Physical and Chemical Properties

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

<b>Appearance</b>	Powder.
<b>Colour</b>	Light (or pale). Green.
<b>Odour</b>	No characteristic odour.
<b>Odour threshold</b>	Not determined.
<b>pH</b>	Not determined.
<b>Melting point</b>	Not relevant.
<b>Initial boiling point and range</b>	>300°C @
<b>Flash point</b>	Not relevant.
<b>Evaporation rate</b>	Not relevant.
<b>Flammability (solid, gas)</b>	The product is not flammable.
<b>Vapour density</b>	Not relevant.
<b>Relative density</b>	Not relevant.
<b>Solubility(ies)</b>	256-266 g/l water @ 20°C 486 g/l water @ 50°C
<b>Partition coefficient</b>	Not known.
<b>Auto-ignition temperature</b>	Not relevant.
<b>Decomposition Temperature</b>	Not relevant.

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<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

<b>Other information</b>	No information required.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	No test data specifically related to reactivity available for this product or its ingredients.
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### 10.2. Chemical stability

<b>Stability</b>	Stable when stored in a dry place.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	No potentially hazardous reactions known.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	There are no known conditions that are likely to result in a hazardous situation.
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### 10.5. Incompatible materials

<b>Materials to avoid</b>	None known.
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### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

<b>ATE oral (mg/kg)</b>	1,185.0
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#### Acute toxicity - dermal

<b>Notes (dermal LD<sub>50</sub>)</b>	No specific test data are available.
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#### Acute toxicity - inhalation

<b>Notes (inhalation LC<sub>50</sub>)</b>	No specific test data are available.
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#### Skin corrosion/irritation

<b>Skin corrosion/irritation</b>	Supplier's information.,May cause skin irritation.
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#### Serious eye damage/irritation

<b>Serious eye damage/irritation</b>	Supplier's information. Irritation of eyes is assumed.
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#### Respiratory sensitisation

<b>Respiratory sensitisation</b>	No specific test data are available.
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#### Skin sensitisation

<b>Skin sensitisation</b>	Not determined.
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#### Germ cell mutagenicity

<b>Genotoxicity - in vitro</b>	This substance has no evidence of mutagenic properties.
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### Carcinogenicity

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

### Reproductive toxicity

**Reproductive toxicity - fertility** Does not contain any substances known to be toxic to reproduction.

### 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.

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

### 12.1. Toxicity

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, : 59.8 mg/l, Daphnia magna

### 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

**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** The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. Dispose of waste via a licensed waste disposal contractor. Dispose of contents/container in accordance with regional regulations. Do Not Re-use empty containers.

## SECTION 14: Transport information

## BNM Growise Sulphate of Iron 1.5kg

**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).

### 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>	5594
<b>Hazard statements in full</b>	H302 Harmful if swallowed. H315 Causes skin irritation. 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.