



SAFETY DATA SHEET

BNM Growise All Purpose CRF Tablet 20

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

1.1. Product identifier

Product name BNM Growise All Purpose CRF Tablet 20

Product number 7527D

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

ammonium nitrate		>=9-<45
CAS number: 6484-52-2	EC number: 229-347-8	REACH registration number: 01-2119490981-27-XXXX
Classification		
Ox. Sol. 3 - H272		
Eye Irrit. 2 - H319		

BNM Growise All Purpose CRF Tablet 20

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

Composition comments Contains Disodium Tetraborate pentahydrate (CAS 12179-04-3) <=0.2%

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	In case of lung irritation, first treatment with dexametason aerosol (spray). Get medical attention if symptoms are severe or persist.
Ingestion	Rinse mouth thoroughly with water. Give plenty of water to drink. 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	Ingestion may provoke Methaemoglobinemia. Risks: Later control for pneumonia and lung oedema.
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.

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	The product is not flammable. Water.
Unsuitable extinguishing media	Do not use the following: Dry chemicals, sand, dolomite etc. Carbon dioxide (CO ₂). Foam.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Thermal decomposition or combustion products may include the following substances: Irritating gases or vapours.
Hazardous combustion products	Ammonia or amines. Oxides of nitrogen.

5.3. Advice for firefighters

Protective actions during firefighting	No specific firefighting precautions known.
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.
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BNM Growise All Purpose CRF Tablet 20

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.

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 Keep out of the reach of children. Store in a dry place. Keep away from heat. Keep away from flammable and combustible materials. Protect from moisture. Protect from sunlight. Do not mix with other fertilisers Avoid contact with oxidising agents. Do not store with self-igniting products

Storage class (TRGS 510) 5.1C Ammonium Nitrate and ammonium nitrate containing preparations.

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

Suppliers Information: Disodium Tetraborate pentahydrate: (DE TRGS 900) 3mg/m³, Peak Limit: (excursion factor (category)) 8,(II). Commission for dangerous substances, the threshold value is based on the element content of the corresponding metal. When there is compliance with the OEL and biological tolerance values, there is no risk of harming the un-born child.

DNEL

Ammonium Nitrate:
 Workers; Inhalation; Long term systemic effects; 37.6mg/m³ 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/m³ 24hrs
 Consumers; Skin Contact; Long Term systemic effects; 12.8mg/kg bw/day

PNEC

Ammonium Nitrate: Fresh Water - 0.45mg/l, Marine Water - 0.045mg/l, Ceiling Limit Value - 4.5mg/l

8.2. Exposure controls

Protective equipment



BNM Growise All Purpose CRF Tablet 20

Appropriate engineering controls	All handling should only take place in well-ventilated areas.
Eye/face protection	Wear eye protection.
Hand protection	Wear protective gloves.
Other skin and body protection	No specific requirements are anticipated under normal conditions of use.
Hygiene measures	Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.
Respiratory protection	Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m ³ . No specific requirements are anticipated under normal conditions of use.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Solid.
Colour	Various colours.
Odour	Odourless.
Odour threshold	Not determined.
pH	ca.5, concentration: 100g/l (20°C)
Melting point	Not relevant.
Initial boiling point and range	Not relevant.
Flash point	Not relevant.
Evaporation rate	Not relevant.
Flammability (solid, gas)	The product is not flammable.
Vapour pressure	Not relevant.
Vapour density	Not relevant.
Relative density	Not relevant.
Bulk density	1.150 kg/m ³
Solubility(ies)	Soluble in water.
Partition coefficient	log Pow: -3.1
Auto-ignition temperature	Not relevant.
Decomposition Temperature	ca. 130°C To avoid thermal decomposition, do not overheat. The product is capable of self-sustaining progressive thermal decomposition.
Viscosity	Not relevant.
Explosive properties	Not relevant.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information	No information required.
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SECTION 10: Stability and reactivity

10.1. Reactivity

BNM Growise All Purpose CRF Tablet 20

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

10.2. Chemical stability

Stability Stable under the prescribed storage conditions. Decomposes on heating.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Evolution of Ammonia under influences of alkalies

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Sulphur, chlorites, chloride, chlorates, Hypochlorites, acid or alkaline reacting substances, flammable oxidizable substances, nitrites, metallic salts, metallic powder, herbicide, chlorinated hydrocarbons, organic compounds.

10.6. Hazardous decomposition products

Hazardous decomposition products Ammonia or amines. Nitrous gases (NOx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) LD50 (RAT): >2000 MG/KG

Acute toxicity - dermal

Notes (dermal LD₅₀) No specific test data are available.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) 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 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. Does not contain any substances known to be carcinogenic.

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.

BNM Growise All Purpose CRF Tablet 20

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 Danger of methaemoglobin formation

SECTION 12: Ecological Information

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

12.1. Toxicity

12.2. Persistence and degradability

Persistence and degradability The product is slowly degradable.

Biodegradation Not determined.

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation is unlikely.

Partition coefficient log Pow: -3.1

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 Reuse or recycle products wherever possible. No specific disposal method required.

SECTION 14: Transport information

General As supplied, this product is consigned under the Limited Quantities provisions. For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

14.1. UN number

UN 2071

UN No. (IMDG) UN 2071

UN No. (ADN) UN 2071

14.2. UN proper shipping name

Not applicable.

BNM Growise All Purpose CRF Tablet 20

Proper shipping name (IMDG) AMMONIUM NITRATE BASED FERTILIZER

Proper shipping name (ADN) AMMONIUM NITRATE BASED FERTILIZER

14.3. Transport hazard class(es)

IMDG class 9

ADN class 9

14.4. Packing group

IMDG packing group Packing Group: III, Labels: 9, EmS Code: F-H S-Q.

ADN packing group Not assigned by regulation. Classification Code: M11. Labels 9.

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

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 26/09/2016

Revision 2

Supersedes date 22/09/2016

SDS number 5608

Risk phrases in full R60 May impair fertility.
R61 May cause harm to the unborn child.

Hazard statements in full H272 May intensify fire; oxidiser.
H319 Causes serious eye irritation.

BNM Growise All Purpose CRF Tablet 20

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.