SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier:

GRAZERS G3 cabbage white butterfly, caterpillar and aphid ready to use

1.2 Relevant uses of the substance or mixture and uses advised against:
Supplied for amateur use as a foliar nutrient to aid plant recovery

1.3 Details of the supplier of the safety data sheet:

Grazers
Ousby
Penrith
CUMBRIA
CA10 1QA
UK

Contact: The Safety Officer
Phone number: +44 (0) 1768 800555
Email: info@grazers.co.uk

1.4 Emergency phone number

Phone number: +44 (0) 1768 800555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
CLASSIFICATION according to Regulation EC 1272/2008 Classification, Labelling and Packaging
Not classified.

2.2 Label Elements
There are no statutory label elements.

2.3 Other Hazards
Mixture not classed as PBT or vPvB

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Product Code: tba

3.2 Mixtures

3.3 Hazardous components

Chemical Name	CAS-No./ ECS-No.	Annex Index or REACH number	Pictogram(s) according to 1272/2008:	H-phrase(s) according to 1272/2008:	Concentrations [%]
Calcium chloride	10043/52-4/ 233-140-8	Index No: 017-013-00-2 REACH reg. No: 01-2119494219-28	GHS07 	Eye irrit. 2 - H319	≤ 3.0

The full hazard information for individual components if not displayed in section 2 or 3 are displayed in Section 16.

4.0. First Aid Measures

4.1 Description of first aid measures

4.1.1 Inhalation

Remove from source of exposure to fresh air; seek medical attention if symptoms persist or develop.

4.1.2 Skin & Eye exposure

Drench immediately with water. Remove any contaminated clothing and launder before re-use. Seek medical attention if symptoms persist or develop.
Eyes: Rinse cautiously for several minutes, Remove contact lenses, if present and easy to do, rinse with clean water for 15 minutes. Seek medical attention if symptoms persist or develop.

4.1.3 Ingestion

Do not induce vomiting. Wash out mouth with water and give water to drink. Obtain medical attention if symptoms persist or develop.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye irritation.

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

Information not available

5. Fire-Fighting measures

5.1 Extinguishing media

Use Foam, carbon dioxide, dry powder, sand. The mixture is not classified as flammable as such extinguishing media should be chosen as appropriate for surrounding materials.

5.2 Special Hazards arising from the substance or mixture

Possible irritant fumes arising from combustion

5.3 Advice for fire-fighters

Cool down containers/equipment exposed to heat with a water spray. Contain spread of extinguishing fluids (these fluids may be hazardous for the environment). Wear complete protective clothing and self-contained breathing apparatus

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

The following precautions are considered to be good practice when using any chemicals irrespective of their classification unless otherwise specified.

Use personal protective equipment
-appropriate coveralls and gloves
-eye/face protection
-appropriate respirator

Avoid contact with skin and eyes

6.2 Environmental Precautions

Do not allow to enter storm drains or water courses. If this product enters a water course or a sewer (including via contaminated soil & vegetation) contact local water authority and inform the Environment Agency

6.3 Methods and material for containment and cleaning up

Use soil, sand or other absorbent material. Contact specialist waste disposal contractor.

6.4 Reference to other sections

No reference necessary

7. HANDLING AND STORAGE

7.1 Precaution for safe handling

Avoid contact with skin and eyes. Wash Hands thoroughly after handling
Do not eat, drink or smoke when using this product. remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool dry atmosphere, in original labelled containers. Refer to manufacturer for maximum safe stacking height. Keep away from heat sources, combustible materials.

7.3 Specific end use(s)

Supplied for amateur use as a foliar nutrient to aid plant recovery.

8.EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

No workplace exposure limits set for components.

DNELs:

Ingredient name:	Exposure:	Value:	Population:
Calcium chloride	Long term inhalation	5 mg/m^3	Workers
Calcium chloride	Short term inhalation	10 mg/m^3	Workers
Calcium chloride	Long term inhalation	2.5 mg/m^3	Consumers
Calcium chloride	Short term inhalation	5 mg/m^3	Consumers

PNECs:

No PNECs available

Source: Yara UK Limited SDS, 12/01/2017

8.2 Exposure controls

Goggles – Eye Protection : goggles/face shield to BS EN166.
Gloves – BS EN374 – chemical protection.
Respirators – BS approved protection device with P3 filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance; liquid

Odour; Information not specified

Odour threshold; Information not specified

pH; Information not specified

Melting point/freezing; Information not specified

Initial boiling point and boiling range; Information not specified

Flash point; Information not specified

Evaporation rate; Information not specified

Flammability (solid, gas); Information not specified

Upper /lower flammability or explosive limits; Information not specified

Vapour Pressure; Information not specified

Vapour density; Information not specified

Specific gravity; Information not specified

Solubility (ies); Information not specified

Partition coefficient: n-octanol/water; Information not specified

Auto ignition temperature: Information not specified

Decomposition temperature: Information not specified

9.2 Other Information
No other relevant information available

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10. STABILITY AND REACTIVITY

10.1 Reactivity
Unknown

10.2 Chemical Stability
Stable under normal conditions

10.3 Possibility of hazardous reactions
Information not available

10.4 Conditions to avoid
Extremes of temperature

10.5 Incompatible materials
None Known

10.6 Hazardous decomposition products
Possible Irritant fumes

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11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
The mixture has not been assessed for toxicological effects, the mixture classification is given in section 2 based on individual component contents. Individual component hazards are given in section 3.

Acute toxicity:	Not expected to be toxic.
Skin corrosion/irritation:	No information specified.
Serious eye damage/irritation:	Product causes serious eye irritation category 2
Respiratory or skin sensitisation:	Product is not classified for respiratory or skin sensitisation.
Germ cell mutagenicity:	No information specified.
Carcinogenicity:	No information specified.
Reproductive toxicity:	No information specified.
STOT-single exposure:	No information specified.
STOT-repeated exposure:	No information specified.
Aspiration hazard:	No information specified.

Toxicological information on hazardous ingredients:
Calcium chloride
Acute toxicity:

LD50 Oral (rat):	2,301 mg/Kg	OECD 401
LD50 Dermal (rat)	>5,000 mg/Kg	

Irritation/Corrosion:
Eyes (rabbit)- Irritant OECD 405
Skin: No known significant effects or critical hazards.
Respiratory: No known significant effects or critical hazards.

Sensitisation:
Conclusion/Summary
Skin: No known significant effects or critical hazards.
Respiratory: No known significant effects or critical hazards.

Mutagenicity
Conclusion/Summary: No known significant effects or critical hazards.

Carcinogenicity
Conclusion/Summary: No known significant effects or critical hazards.

Reproductive toxicity
Conclusion/Summary: No known significant effects or critical hazards.

Teratogenicity
Conclusion/Summary: No known significant effects or critical hazards.
Information on the likely
routes of exposure: No known significant effects or critical hazards.

Potential acute health effects
Inhalation: No known significant effects or critical hazards
Ingestion: Irritating to mouth, throat and stomach.
Skin contact: No known significant effects or critical hazards.
Eye contact: Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics
Inhalation: No specific data.
Ingestion: No specific data.
Skin contact: No specific data.
Eye contact: Adverse symptoms may include the following: pain or irritation watering redness

Delayed and immediate effects and also chronic effects from short and long term exposure
Short term exposure
Potential immediate effects: No known significant effects or critical hazards.
Potential delayed effects: No known significant effects or critical hazards.
Long term exposure
Potential immediate effects: No known significant effects or critical hazards.
Potential delayed effects: No known significant effects or critical hazards.

Potential chronic health effects
Conclusion/Summary: No known significant effects or critical hazards.
General: No known significant effects or critical hazards.
Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Teratogenicity: No known significant effects or critical hazards.
Developmental effects: No known significant effects or critical hazards.
Fertility effects: No known significant effects or critical hazards

Source: Yara UK Limited SDS, 12/01/2017

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12. ECOLOGICAL INFORMATION

12.1 Toxicity

Mixture not classified as harmful to aquatic life

Ecotoxicological information on hazardous ingredients:
Calcium chloride

Result:	Species:	Exposure:	References:
Acute LC50 4,630 mg/l	Fish	96 hr	IUCLID 5
Acute EC50 464 mg/l Fresh water	Water flea	2 d	J. Fish. Res. Board Can.29(12): 1691-1700
Acute EC50 1,400 mg/l Fresh water	Water flea	2 d	Sci. Total Environ.Suppl: 1159-1164
Acute LC50 2,400 mg/l OECD 202	Daphnia	48 hr	IUCLID 5

Source: Yara UK Limited SDS, 12/01/2017

2.2 Persistence and degradability
Readily biodegradable

12.3 Bioaccumulative potential
Information not available

12.4 Mobility in soil
Information not available

12.5 Results of PBT and vPvB
Not classified

12.6 Other adverse effects
Information not available

13.DISPOSAL CONSIDERATIONS
13.1 Waste Treatment Methods
Use only licensed waste disposal companies. Do not re-use empty containers for any purpose.

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14. TRANSPORT INFORMATION
14.1 UN number: Product is unclassified for transport.
14.2 UN proper shipping name: Product is unclassified for transport.
14.3 Transport hazard: Product is unclassified for transport.
14.4 Packing group: Product is unclassified for transport.
14.5 Environmental hazards: Product is unclassified for transport.
14.6 Special precautions for user: Not specified
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
Applicable for Maritime bulk transport only. Check with carrier.

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15. REGULATORY INFORMATION
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.
This substance is classified and labelled in accordance with 1272/2008 and the EC Fertiliser Regulations 2003, 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, including amendments.

15.2 Chemical Safety Assessment
CSA not undertaken for this substance.

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16. OTHER INFORMATION

Full text of Hazard Statements not displayed in full in sections 2 and 3:

H319 Causes serious eye irritation.

Abbreviations:

DNEL	Derived No-Effect Level
Eye Irrit. 2	Eye Irritation category 2
LC/LD50	Lethal Concentration/Dose 50%
NOAEL	No Observed Adverse Effect Level
OECD	Organisation for Economic Co-operation and Development
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative, Toxic
STOT	Specific Target Organ Toxicity
vPvB	very Persistent, very Bioaccumulative

SDS information:

This safety data sheet is compiled using data submitted for raw materials and practical experience. This product is intended for professional users only.

This Safety Data Sheet is prepared in compliance with Regulation 1272/2008 and Annex II of the REACH regulation 453/2010.

THE INFORMATION GIVEN HEREIN IS, TO THE BEST OF OUR KNOWLEDGE, CORRECT AND IS PRESENTED IN GOOD FAITH BUT NO WARRANTY, EXPRESSED OR IMPLIED IS GIVEN.

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