SAFETY DATA SHEET



1. Identification

Product identifier Grigg Gary's Green Ultra

Other means of identification

Product code 32019GRI
Recommended use Turf- fertilizer

Recommended restrictions Refer to product label.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company nameBrandt Consolidated, Inc.Address2935 South Koke Mill Road

Springfield, IL 62711

United States

Telephone Corporate Office 1-217-547-5800

Website www.brandt.co E-mail www.brandt.co

Contact person EH&S / Regulatory Department

Emergency phone number CHEMTREC (24 hours):

USA, Canada, Puerto Rico 1-800-424-9300 Virgin Islands 1-800-424-9300 International Maritime +1 (703) 527-3887

Supplier Not available.

2. Hazard identification

Physical hazards Not classified.

Health hazards Serious eye damage/eye irritation Category 2A

Reproductive toxicity Category 2

Environmental hazards Not classified.

Label elements



Signal word Warning

Hazard statement Causes serious eye irritation. Suspected of damaging fertility or the unborn child.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye

protection/face protection.

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. If eye

irritation persists: Get medical advice/attention.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Magnesium Amino Acid Complex		7786-30-3	3 - < 5

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Chemical name	Common name and synonyms	CAS number	%
Monoammonium Phosphate (MAP)		7722-76-1	3.56
Potassium Nitrate		7757-79-1	1 - < 3
Disodium Octaborate Tetrahydrate		12008-41-2	< 0.2
Other components below reportable le	evels		90 - 100

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Move to fresh air. Call a physician if symptoms develop or persist. Inhalation

Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eve contact

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important symptoms/effects, acute and

delayed

Indication of immediate

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

medical attention and special

treatment needed **General information** Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Large Spills: Stop the flow of material, if this is without risk, Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with eyes. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

He		Throc	hald	I imit	Values
ua.	ACGIR	THES	HOIU		values

Components	Туре	Value	Form
Disodium Octaborate Tetrahydrate (CAS 12008-41-2)	STEL	6 mg/m3	Inhalable fraction.
	TWA	2 mg/m3	Inhalable fraction.
Canada. Alberta OELs (Occupat	ional Health & Safety Code, Sch	nedule 1, Table 2)	
Components	Туре	Value	
Disodium Octaborate Tetrahydrate (CAS 12008-41-2)	STEL	3 ppm	
.2000 2)			
.2000 11 2)	TWA	1 mg/m3	
·		•	
Canada. Manitoba OELs (Reg. 2		•	Form
Canada. Manitoba OELs (Reg. 2 Components Disodium Octaborate Tetrahydrate (CAS	17/2006, The Workplace Safety	And Health Act)	Form Inhalable fraction.
Canada. Manitoba OELs (Reg. 2 Components Disodium Octaborate Tetrahydrate (CAS	17/2006, The Workplace Safety Type	And Health Act) Value	
Canada. Manitoba OELs (Reg. 2 Components Disodium Octaborate Tetrahydrate (CAS 12008-41-2)	17/2006, The Workplace Safety Type STEL TWA	And Health Act) Value 6 mg/m3 2 mg/m3	Inhalable fraction.
Canada. Manitoba OELs (Reg. 2 Components Disodium Octaborate Tetrahydrate (CAS 12008-41-2) Canada. Ontario OELs. (Control	17/2006, The Workplace Safety Type STEL TWA	And Health Act) Value 6 mg/m3 2 mg/m3	Inhalable fraction.

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

2 mg/m3

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece.

TWA

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing. Use of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Wear appropriate thermal protective electhing, when pecessary

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid.
Form Liquid.
Color Not available.
Odor threshold Not available.

pH 2.8

Melting point/freezing point 270.86 °F (132.7 °C) estimated

Initial boiling point and boiling Not available.

range

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Inhalable fraction.

Not available. Flash point Not available. **Evaporation rate** Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

0.00001 hPa estimated Vapor pressure

Not available. Vapor density

1.27 g/cm3 (typical) Relative density

Solubility(ies)

Solubility (water) Not available. **Partition coefficient** Not available.

(n-octanol/water)

Auto-ignition temperature Not available. **Decomposition temperature** Not available. Not available. **Viscosity**

Other information

Explosive properties Not explosive. Oxidizing properties Not oxidizing. Percent volatile 32.39 % estimated Pounds per gallon 10.6 lb/gal (typical) 9.77 % estimated VOC

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Contact with incompatible materials. Conditions to avoid

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Prolonged inhalation may be harmful. Inhalation

Skin contact Knowledge about health hazard is incomplete.

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

Information on toxicological effects

Not known. **Acute toxicity**

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Product Species Test Results Grigg Gary's Green Ultra **Acute** Dermal LD50 Rabbit 1.652e+006 mg/kg Oral LD50 Rat 22760 mg/kg Components **Species Test Results** Disodium Octaborate Tetrahydrate (CAS 12008-41-2) **Acute Dermal** LD50 Rabbit > 2000 mg/kg Oral LD50 Rat 2550 mg/kg 2 g/kg Magnesium Amino Acid Complex (CAS 7786-30-3) **Acute** Oral LD50 Rat 2800 mg/kg Monoammonium Phosphate (MAP) (CAS 7722-76-1) **Acute Dermal** LD50 Rabbit 500 Oral Rat > 1000 LD50 Potassium Nitrate (CAS 7757-79-1) **Acute** Oral LD50 Rabbit 1166 mg/kg Due to partial or complete lack of data the classification is not possible. Skin corrosion/irritation Serious eye damage/eye Causes serious eve irritation. irritation Respiratory or skin sensitization Canada - Alberta OELs: Irritant Disodium Octaborate Tetrahydrate (CAS 12008-41-2) Irritant Due to partial or complete lack of data the classification is not possible. Respiratory sensitization Due to partial or complete lack of data the classification is not possible. Skin sensitization Due to partial or complete lack of data the classification is not possible. Germ cell mutagenicity Risk of cancer cannot be excluded with prolonged exposure. Carcinogenicity **ACGIH Carcinogens** Disodium Octaborate Tetrahydrate (CAS 12008-41-2) A4 Not classifiable as a human carcinogen. Canada - Manitoba OELs: carcinogenicity Disodium Octaborate Tetrahydrate (CAS 12008-41-2) Not classifiable as a human carcinogen. IARC Monographs. Overall Evaluation of Carcinogenicity Potassium Nitrate (CAS 7757-79-1) 2A Probably carcinogenic to humans. Suspected of damaging fertility or the unborn child. Reproductive toxicity Due to partial or complete lack of data the classification is not possible. Specific target organ toxicity single exposure Specific target organ toxicity -Due to partial or complete lack of data the classification is not possible.

repeated exposure

Aspiration hazardDue to partial or complete lack of data the classification is not possible.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product		Species	Test Results
Grigg Gary's Green Ultra			
Aquatic			
Crustacea	EC50	Daphnia	2968.4229 mg/l, 48 hours estimated
Fish	LC50	Fish	19498.6699 mg/l, 96 hours estimated
Components		Species	Test Results
Disodium Octaborate Tetrah	ydrate (CAS 12	2008-41-2)	
Aquatic			
Acute			
Crustacea	LC50	Daphnia magna	619 mg/l
Fish	LC50	Pimephales promelas	370 mg/l
Magnesium Amino Acid Con	nplex (CAS 778	6-30-3)	
Aquatic			
Crustacea	EC50	Calanoid copepod (Eudiaptomus padanus padanus)	95 - 342 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	1580 - 2740 mg/l, 96 hours
Potassium Nitrate (CAS 775	7-79-1)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	1200 mg/l, 96 hours
Acute			
Fish	LC50	Fish	1378 - 3000 mg/l
sistence and degradability	No data is a	vailable on the degradability of any ingredier	nts in the mixture.

Pe

Bioaccumulative potential

Other adverse effects

Mobility in soil

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

No data available.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not established.

the IBC Code

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15. Regulatory information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Inventory name

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

Country(s) or region

International Inventories

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Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other information

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On inventory (yes/no)*

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of Manufacturer's knowledge, information and belief at the date of its publication; however, it is provided only as a guidance for safe handling, use, processing, storage, transportation, disposal and release of the Product. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made with respect to the Product or the information provided herein, or that the Product or information herein may be used without infringing the intellectual property rights of others. The information provided in this Safety Data Sheet relates only to the specific Product designated and may not be valid if the Product is used in combination with other materials or in any other process, unless specified herein. The user assumes all risk and liability for loss, injury, damage or expense due to any use, handling, storage or disposal of the Product, and Manufacturer recommends that the user conducts its owns tests of the Product to determine suitability of the Product for user's particular use.

Revision information

Product and Company Identification: Product and Company Identification

Toxicological Information: Toxicological Data

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