

# SAFETY DATA SHEET

## 1. Identification

Gary's Green				
215				
Plant Nutrients				
None known.				
Manufacturer/Importer/Supplier/Distributor information				
Grigg Brothers				
P.O. Box 128				
Albion, ID 83311				
General Assistance	888-246-8873			
	208-673-6340			
info@griggbros.com				
Poison Control	800-222-1222			
	215 Plant Nutrients None known. <b>Distributor information</b> Grigg Brothers P.O. Box 128 Albion, ID 83311 General Assistance info@griggbros.com			

## 2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
	Acute toxicity, dermal	Category 4
	Acute toxicity, inhalation	Category 4
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3
OSHA defined hazards	Not classified.	

#### Label elements



Signal word	Warning
Hazard statement	Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Avoid breathing vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing.
Response	If swallowed: Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. Rinse mouth. Take off contaminated clothing and wash before reuse.
Storage	Store away from incompatible materials.Products should be stored above 12.8°C (55°F).
	Storage of bulk products is best suited for original manufacturing containers. If required, storage in a polypropylene storage tank with polypropylene fittings is recommended. Metal storage tanks and fittings are not recommended for long term.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
UREA		57-13-6	20 - < 30
TRADE SECRET*		Proprietary*	5 - < 10
MAGNESIUM CHLORIDE		7791-18-6	3 - < 5
COPPER (II) SULFATE PENTAHYDRATE		7758-99-8	< 1
ZINC SULFATE MONOHYDRATE		7446-19-7	< 0.3
Other components below reportable leve	els		60 - < 70

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Wash off with soap and water. Get medical advice/attention if you feel unwell. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	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	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	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.

Move containers from fire area if you can do so without risk.

Specific methodsUse standard firefighting procedures and consider the hazards of other involved materials.General fire hazardsNo unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Fire fighting

equipment/instructions

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. Avoid inhalation of vapors and spray mists. 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. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. 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.

Material name: Gary's Green 215 Version #: 01 Issue date: 08-13-2015 Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

### 7. Handling and storage

Precautions for safe handling

Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). including any incompatibilities

#### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

US. ACGIH Threshold Lim Components	Туре	Value	
TRADE SECRET	TWA	1 mg/m3	
US. NIOSH: Pocket Guide Components	to Chemical Hazards Type	Value	Form
COPPER (II) SULFATE PENTAHYDRATE (CAS 7758-99-8)	TWA	1 mg/m3	Dust and mist.
TRADE SECRET	TWA	1 mg/m3	
US. Workplace Environme	ntal Exposure Level (WEEL) Guides		
Components	Туре	Value	Form
UREA (CAS 57-13-6)	TWA	10 mg/m3	Total particulate.
ological limit values	No biological exposure limits noted for	the ingredient(s).	
propriate engineering ntrols	Good general ventilation (typically 10 should be matched to conditions. If ap or other engineering controls to mainta exposure limits have not been establis	plicable, use process enclos ain airborne levels below rec	ures, local exhaust ventilatior ommended exposure limits. If
lividual protection measures	s, such as personal protective equipme	ent	
Eye/face protection	Wear safety glasses with side shields	(or goggles).	
Skin protection			
Hand protection	Wear appropriate chemical resistant g supplier.	loves. Suitable gloves can b	e recommended by the glove
Other	Wear appropriate chemical resistant c	lothing.	
<b>Respiratory protection</b>	In case of insufficient ventilation, wear	In case of insufficient ventilation, wear suitable respiratory equipment.	
Thermal hazards	Wear appropriate thermal protective c	lothing, when necessary.	
neral hygiene nsiderations	Keep away from food and drink. Alway washing after handling the material ar work clothing and protective equipmer	d before eating, drinking, an	

#### 9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Dark brown.
Odor	Slight.
Odor threshold	Not available.
рН	3.3
Melting point/freezing point	270.86 °F (132.7 °C) estimated
Initial boiling point and boiling	Not available.
range	
Flash point	Not available.

	Natavailable
•	Not available.
	Not applicable.
per/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
oor pressure	0.00001 hPa estimated
oor density	Not available.
ative density	Not available.
ubility(ies)	
Solubility (water)	Not available.
tition coefficient octanol/water)	Not available.
o-ignition temperature	Not available.
composition temperature	Not available.
cosity	Not available.
er information	
Density	1.72 g/cm3 estimated
Density	0
Percent volatile	26.97 % estimated
-	<b>U</b>
	(%) Flammability limit - upper (%) Explosive limit - lower (%) Explosive limit - upper (%) oor pressure oor density ative density ubility(ies) Solubility (water) tition coefficient octanol/water) to-ignition temperature composition temperature cosity

## 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.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

# 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	Harmful if inhaled.
Skin contact	Harmful in contact with skin.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

#### Information on toxicological effects

Acute toxicity

Harmful if inhaled. Harmful in contact with skin. Harmful if swallowed.

Components	Species	Test Results	
COPPER (II) SULFATE P	ENTAHYDRATE (CAS 7758-99-8)		
Acute			
Oral			
LD100	Mouse	50 mg/kg	
LD50	Rat	960 mg/kg	

Components	Species		Test Results	
MAGNESIUM CHLORIDE (CAS 7	7791-18-6)			
<u>Acute</u>				
Oral				
LD50	Rat		2800 mg/kg	
UREA (CAS 57-13-6)				
Acute				
Oral				
LD50	Rat		8471 mg/kg	
	Sheep		28500 mg/kg	
ZINC SULFATE MONOHYDRATI	E (CAS 7446-19	-7)		
<u>Acute</u>				
<b>Dermal</b> LD50	Rat		> 2000 mg/kg	
	nat		> 2000 mg/kg	
<b>Oral</b> LD50	Mouse	Mouse 57 mg/kg		
LDSU	Rat		623 mg/kg	
	nat		020 mg/kg	
* Estimates for product may	be based on add	litional component data not shown.		
Skin corrosion/irritation	Prolonged sk	Prolonged skin contact may cause temporary irritation.		
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.			
Respiratory or skin sensitization	on			
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.			
Skin sensitization	This product	is not expected to cause skin sensitizatio	n.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.			
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.			
OSHA Specifically Regulate	ed Substances	(29 CFR 1910.1001-1050)		
Not listed.				
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.			
Specific target organ toxicity - single exposure	Not classified	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified	Not classified.		
Aspiration hazard	Not an aspira	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harmful.			
12. Ecological informatio	n			
•		uatic life with long lasting effects.		
Ecotoxicity Components		Species	Test Results	
COPPER (II) SULFATE PEN		•		
Crustacea	EC50	Water flea (Daphnia magna)	0.0058 - 0.0073 mg/l, 48 hours	
Fish	LC50	Bluegill (Lepomis macrochirus)	0.66 - 1.15 mg/l, 96 hours	
MAGNESIUM CHLORIDE (C				
Crustacea	EC50	Calanoid copepod (Eudiaptomus padanus padanus)	95 - 342 mg/l, 48 hours	
Fish	LC50	Fathead minnow (Pimephales promela	s) 1580 - 2740 mg/l, 96 hours	

Components		Species	Test Results	
UREA (CAS 57-13-6)				
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	3910 mg/l, 48 hours	
Fish	LC50	Giant gourami (Colisa fasciata)	5 mg/l, 96 hours	
ZINC SULFATE MONOH	DRATE (CAS	7446-19-7)		
Aquatic				
Crustacea	EC50	Rotifer (Philodina acuticornis)	0.3 mg/l, 48 hours	
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.162 mg/l, 96 hours	
* Estimates for product may be based on additional component data not shown. ersistence and degradability No data is available on the degradability of this product. oaccumulative potential				
Partition coefficient n-oc	tanol / water (	log Kow)		
UREA		-2.11		
bility in soil	No data a	No data available.		
ner adverse effects		No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
. Disposal considerat	tions			
posal instructions	this mater with chem	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.		
cal disposal regulations	Dispose ii	Dispose in accordance with all applicable regulations.		
zardous waste code		The waste code should be assigned in discussion between the user, the producer and the waste disposal company.		

Waste from residues / unused products

**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

#### 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### ΙΑΤΑ

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established. Annex II of MARPOL 73/78 and

the IBC Code

#### 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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:

# One or more components are not listed on TSCA.

Disposal instructions).

disposal.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

#### SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulate Not listed.	d Substances (29 CFR 19 <sup>-</sup>	10.1001-1050)		
Superfund Amendments and Re Hazard categories	eauthorization Act of 1986 Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	(SARA)		
SARA 302 Extremely hazard Not listed.	lous substance			
SARA 311/312 Hazardous chemical	No			
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.	
COPPER (II) SULFATE F	PENTAHYDRATE	7758-99-8	< 1	
Other federal regulations				
Clean Air Act (CAA) Section	112 Hazardous Air Pollut	ants (HAPs) List		
Not regulated.				
Clean Air Act (CAA) Section	112(r) Accidental Release	e Prevention (40 CFR	68.130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Not regulated.			
US state regulations				
US. California Controlled Su	ubstances. CA Departmen	t of Justice (Californi	a Health and Safety Co	de Section 11100)
Not listed.	uhatanaa Liat			
US. Massachusetts RTK - S		0 00 0		
	PENTAHYDRATE (CAS 775 IYDRATE (CAS 7446-19-7)	98-99-8)		
US. New Jersey Worker and		w Act		
COPPER (II) SULFATE F	PENTAHYDRATE (CAS 775	8-99-8)		
	YDRATE (CAS 7446-19-7)			
US. Pennsylvania Worker an				
TRADE SECRET (CAS F ZINC SULFATE MONOH	PENTAHYDRATE (CAS 775 Proprietary) IYDRATE (CAS 7446-19-7)	8-99-8)		
US. Rhode Island RTK				
Not regulated.				
any chemicals currently li	5 Water and Toxic Enforceme isted as carcinogens or repr		ition 65): This material is	s not known to contain
International Inventories				
Country(s) or region	Inventory name			On inventory (yes/no)*
Australia	Australian Inventory of Ch		ICS)	No
Canada	Domestic Substances Lis			No
Canada	Non-Domestic Substance	. ,	((5000)	No
China	Inventory of Existing Cher			No
Europe -	European Inventory of Ex Substances (EINECS)	-		No
Europe	European List of Notified			No
Japan	Inventory of Existing and		nces (ENCS)	No
Korea	Existing Chemicals List (E	ECL)		No
New Zealand	New Zealand Inventory			No
Philippines	Philippine Inventory of Ch (PICCS)	emicals and Chemical	Substances	No

#### Country(s) or region Inventory name

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

### 16. Other information, including date of preparation or last revision

Issue date	08-13-2015
Version #	01
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.