MATERIAL SAFETY DATA SHEET — 16 Sections

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Supermetural Brand Gro Aqua			[WHMIS Classification]			
11-6-16				Class	C - Oxidi	zer
Product Use Water soluble plant	ferti	lizer				
Manufacturer's Name			Supplier's Name			
Rapidgrow Industries Inc.			Same as manufac	turer.		
Street Address		Street Address				
20203 113B Ave.						
City		Province	City			Province
Maple Ridge		BC				
Postal Code	Emergency Te		Postal Code		Emergency Te	elephone
V2X 0Z1	604 465	1344/604 868 1698				
Date MSDS Prepared		MSDS Prepared By		Phone Num		
2012-10-12		Brian Franczuz	Z	604	868 1698	3

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients (specific)	%	CAS Number	LD ₅₀ of Ingredient (specify species and route)	LC ₅₀ of Ingredient (specify species)
Potassium Nitrate	21	7757-79-1	Rat Oral, Rabbit Ora	3750 mg/kg Rat 1901 mg/kg Rabbit 3900mg/kg Rat
Calcium Nitrate	40	10124 - 37 - 5	Rat Oral / Rabbit, Irritation eye	3900mg/kg Hat 500mg/kg severe
Manganese Sulfate	0.03	10034-96-5	ND	ooonig/kg oovere
Zinc Sulfate	0.075	7446-19-7	Mouse/Oral Rat/Oral	2200mg/kg Mouse
Copper Sulfate Nitrilotricetic Acid	0.025 0.075	7758-99-8 5064-31-3	Rat/Oral	300mg/kg Rat 1658 mg/kg Rat

SECTION 3 — HAZARDS IDENTIFICATION

Route of Entry	Skin Contact	Skin Absorption	☑ Eye Contact	∏ Inhalation	☐ Ingestion
[Emergency Ove	-	n could coour w	ith prolonged a	avaccure to d	ry fortilizer or colution. Eye Contact
Skin co	niaci - imialio	n could occur w	ıın proiongea e	exposure to a	ry fertilizer or solution. Eye Contact -
		•		•	lation - very low vapour activity, could
produce	noxious tume:	s and respirator	y tract irritation	ı if neated. İng	gestion - excessive ingestion may
Potential Health result in	health hazard.	. Effects may inc	clude nausea,	vomiting, diah	nrrea, weakness or convulsions.

SECTION 4 — FIRST AID MEASURES
Skin Contact
Remove contaminated clothing. Flush affected area with water for 15 minutes. Wash affected area with mild soap and water. Get medical attention if irritation develops or persists.
Eye Contact Immediately flush eyes with plenty of water. Remove any contact lenses (if easy to do) and continue flushing for 15 minutes. Get medical attention if irritation develops or persists.
Inhalation
Remove person to fresh air. Seek medical attention immediately if breathing becomes difficult.
Ingestion Immediately rinse mouth out with plenty of water. If within 30 minutes after ingestion, give person a small glass of water or milk. NEVER give anything by mouth to an unconscious person. Do not induce vomiting unless instructed to do so by a physician or poison center. Seek medical attention immediately.
SAMPLE FORMAT PROVIDED BY THE WORKERS' COMPENSATION BOARD OF BRITISH COLUMBIA



SECTION 5 — FIRE F	IGHTING ME	EASURES				
Flammable		If yes, under which		rator iot We	ear SCRA and	full protective
Means of Extinction clothing.		s of water. al is an oxid		ater jet. We	ear SCBA and	Iuli procective
		s the intensi Upper Flammable L		re or combust	able substan	ce
Flashpoint (° C) and Method		Upper Flammable L NA	imīt (% by volumē)		Lower Flammable Lir NA	nit (% by volume)
Autoignition Temperature (°C) ND		Explosion Data – Se	ensitivity to Impact		Explosion Data – Se	nsitivity to Static Discharge
Hazardous Combustion Products Nitrates, nitrites, ammonia, o	arbon monoxide.	sulfur oxides.				
[NFPA]						
SECTION 6 — ACCIDI	ENTAL RELE	EASE MEASI	JRES			
Leak and Spill Procedures						
Contain the spill. Avoid contain	act with combust	ibles, organics an	d ignition source	s. Sween un sni	led material and	use or dispose of in an
approved manner. Prevent					iloa matoriai aria	acc or dispose or in an
approved marmer. Trevent	mily into waterwe		ments or commit			
SECTION 7 — HANDL	ING AND ST	TORAGE				
Handling Procedures and Equipment						
Avoid direct and prolonged	contact with skin					
7 Word direct and protonged	oontaot with only	•				
Storage Requirements				5		
Store in cool, dry area in close		-				
Store away from incompatible	materials. Use v	vith proper persor	nal protective eq	uipment. Keep οι	it of reach of child	dren.
SECTION 8 — EXPOS	LIDE CONT	DOL / DEDS	NAL DOCT	ECTION		
	ONE CONTR	NOL / PENSC	MAL PROT	ECTION		
Exposure Limits	☐ ACGIHTLV		osha p	EL	Othe	(specify)
Specific Engineering Controls (such as Ventilate to control dust.	ventilation, enclosed p	rocess)				
Personal Protective Equipment	☑ Gloves	Respirator	⊠ Eye	☐ Footwear	☐ Clothing	☐ Other
If checked, please specify type Respiratory - Dust mask if c	onditions warran	t.				
Eyes - Wear safety glasses			r contact lenses.			
Skin Woor impormable a	lavea ta	in contact				

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Odour and Appearance	Odour Threshold (ppm)
Solid	white, yellowish powder	NA
Specific Gravity	Vapour Density (air = 1)	Vapour Pressure (mmHg)
NA	ND	ND
Evaporation Rate	Boiling Point (°C)	Freezing Point (°C)
ND	NA	NA
pH	Coefficient of Water/Oil Distribution	[Solubility in Water]
ND		

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability	If no, under which conditions?
☐ Yes ☐ X No	Exposure to heat may result in build up of dangerous pressures.
Incompatibility with Other Substances	Strong-oxidizer, reacts violently upon contact of many organic
☑ Yes ☐ No	substances, particularly textile and paper.
Strong acids, strong alkalies, ox	idizers, organics.
Reactivity, and under what conditions?	
Moist, wet conditions, Fire.	
Hazardous Decomposition Products	
Ammonia, oxides of nitrogen	
Avoid heat, flame, ignition sourc	es, shock and incompatibles.

ECTION 11 — TOXICOLOGICAL INFORMATION		
Effects of Acute Exposure		
Skin Contact - Irritation could occur with prolonged exposure to dry f	ertilizer or fertilizer solution.	
Skin Absorption - Not known to be absorbed through the skin.		
Eye Contact - Irritation could occur if fertilizer solution is splashed in	eyes or dry product contacts eyes.	
Inhalation - Very ow vapour activity. If heated could release noxious	fumes, can cause respiratory tract irritation.	
Ingestion - Excessive ingestion must occur before any health hazard	I results, effects of overexposure may include nausea, vomiting,	
Effects of Chronic Exposure diarrhea, weakness or convulsions.		
Nitrilotriacetic Acid and it's salts were determined to	o be "possibly carcogenic to humans" by IARC a	
	o be a carcinogen" By NTP and a "select Carcinogen"	
by OSHA. Boric Acid may cause birth defects and	may impair male fertility, based on animal data.	
Calcium Nitrate (10124-37-5) NTP Carcinogen no	known, anticipated, IARC Category, none.	
Oral Rat LD50: 3900 mg/kg. Irritation eye Rabbit 5		
Irritancy of Product May cause minor irritation		
Skin Sensitization	Respiratory Sensitization	
May cause minor irritation	Very low, if heated could cause irritation	
Carcinogenicity – IARC	Carcinogenicity – ACGIH	
None known. None known.		
eproductive Toxicity Teratogenicity		
None known.	None known.	
Embryotoxicity	Mutagenicity	
None known.	None known.	
Name of Synergistic Products/Effects		
ND		

Product Identifier		-		
ECTION 12 — ECOLOGICAL INFO	PRMATION			
[Aquatic Toxicity] Prevent entry into waterways sew	vers, basements or confined areas.			
The LC50/96-hour values for fish				
ECTION 13 — DISPOSAL CONSIDUATE MASTE DISPOSAL	DERATIONS			
•	rways, in accordance with federal, provincial and local regula	tions.		
ECTION 14 — TRANSPORT INFO	RMATION zer Packing Group III			
Tidodia 3.1 Oxidiz	Let 1 deking Group in			
Calcium nitrate mixture. UN#1454	, Potassium Nitrate mixture. UN# 1486	PIN		
TDG	ротј Domestic Land	-		
[IMO]	[ICAO]			
ECTION 15 — REGULATORY INFO				
[WHMIS Classification] Class C oxidizer	[OSHA]			
^[SERA] 311/312	[TSCA] 12(b)			
This product has	s been classified in accordance with the hazard criteria of	fthe		
Controlled Products Regular	tions (CPR) and the MSDS contains all of the information r	required by CPR.		
ECTION 16 — OTHER INFORMAT	ION			
NA = Not Applicable.				
ND = Not Determined.				