1. Product and Company Identification

Product Code:	FGAU026-029
Product Name:	LIQUID BORON
Company Name:	Stoller Australia
	1 Creswell Road
	Largs Bay
	South Australia 5016
Web site address:	www.stoller.com.au
Email address:	stoller@stoller.com.au
Emergency Contact:	STOLLER PRODUCTION CHEMIST
	Contact number: 08 8169-0988
Information:	1800 337-845
Intended Use:	For agricultural use only
Synonyms:	Chelated micronutrient solution.

2. Hazards Identification

Acute Toxicity: Skin, Category 4 Acute Toxicity: Inhalation, Category 5 Acute Toxicity: Oral, Category 5 Serious Eye Damage/Eye Irritation, Category 2B



GHS Signal Word:	Warning
GHS Hazard Phrases:	H303 - May be harmful if swallowed.
	H312 - Harmful in contact with skin.
	H320 - Causes eye irritation.
	H333 - May be harmful if inhaled.
GHS Precaution Phrases:	P264 - Wash hands thoroughly after handling.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
GHS Response Phrases:	P302+352 - IF ON SKIN: Wash with plenty of soap and water.
	P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
	P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
	P337+313 - If eye irritation persists, get medical advice/attention.
	P363 - Wash contaminated clothing before reuse.
GHS Storage and Disposal	P501 - Dispose of contents/container to
Phrases:	
Potential Health Effects	Hazards not otherwise classified (HNOC) or not covered by GHS: None.
(Acute and Chronic):	
Inhalation:	None.
Skin Contact:	May be harmful in contact with skin.
Eye Contact:	Causes eye irritation.
Ingestion:	Harmful if swallowed.

CAS #	Components (Ch	emical Name)	Concentration	
	Components (Ch			
10043-35-3	Boric acid		<60.0 %	
		4. First A	d Measures	
Emergency a Procedures:	Ind First Aid	Consult a physician. Show	this safety data sh	eet to the doctor in attendance.
In Case of Sk	kin Contact:	Wash off with soap and ple	nty of water. Cons	sult a physician.
In Case of Ey	ve Contact:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses present and easy to do. Continue rinsing.		everal minutes. Remove contact lenses, if
In Case of In	gestion:	Call a POISON CENTER o	r doctor/physician	if you feel unwell. Rinse mouth.
		IF SWALLOWED: Call a Po	DISON CENTER o	or doctor/physician if you feel unwell.
	any immediate ntion and specia eded:	No data available. I		
Note to Phys	ician:	Treat symptomatically and	supportively.	
		5. Fire Figh	ting <u>Measure</u>	es
Flash Pt:		NA Method Used: Estim		
Explosive Li	nits:	LEL: N.A. UEL: N.A.		
Autoignition		No data.		
Suitable Exti	nguishing Media			e, or alcohol-resistant foam. Use to local circumstances and the surrounding
Unsuitable E Media:	xtinguishing	none known.		
Fire Fighting	Instructions:	tions: Wear self contained breathing apparatus for fire fighting if necessary. Further information: No data available.		
Flammable P Hazards:	roperties and	Sodium oxides.		
Hazardous Combustion No data available		No data available.		
Products:				
		6. Accidental R	lelease Meas	sures
Protective Pr	ecautions			a and protect people. Such releases should
	quipment and	be responded to by trained incidental release, minimute	l personnel using p m Personal Protec	pre-planned procedures. In the event of an tive Equipment must be worn: latex or ull face-shield and coveralls or long sleeve
Environment	al Precautions:	Do not allow to enter drain	s or waterways	
	Taken In Case		-	allest area possible by diking, scooping, et
Material Is Re Spilled:		and recover the product in is clean, use it as intended salvage for proper disposa Absorb residual product or material, then collect in co	to an appropriate of following original I as waste. hto dry carrier such vered, labeled con	container, labeling it accordingly. If product label directions; should it get contaminated h as dirt, sand or any other absorbent tainers and dispose of as dry waste in
Licensed to Stolle	er USA: MIRS MSDS	accordance with Federal, \$ 6, (c) A V Systems, Inc.	State, and Local wa	aste disposal regulations. GHS form

		<u>7.</u> H	andling and St	orage	
Handling:	To Be Taken in To Be Taken in	with eyes, skin, a contain residual I containers. Inspect all incom damaged. Keep away from direct away from food,	ind clothing. Avoid inge iquid or vapors and the ing containers before s containers tightly close sunlight, sources of inf feed, clothing materials	eathing (dust, vapor, mist, estion and inhalation. Emp erefore should be handled storage to ensure all are p ed when not in use. Store i tense heat or where freez s and living quarters. Whe	the same as full roperly labeled and not n a cool, dry place, ing is possible. Store never possible, place
		do not stack palle polyolefin.	ets. Store Keylate Micro	diked area. Store a maxim onutrients in fiberglass, po	
	1	•	Controls/Perso		
CAS # 10043-35-3	Partial Chemical Boric acid	Name	OSHA TWA No data.	ACGIH TWA TLV: 2 mg/m ³ STEL: 6 mg/m ³	Other Limits No data.
Respiratory I (Specify Typ	• •	requirements mu	st be followed whenev	eets OSHA's 29 CFR 191 er workplace conditions w of protection, use a full-fac	arrant a respirator's
Eye Protectio	on:			s or chemical safety goggl tions in 29 CFR 1910.133	•
Protective G	loves:	technique (withou Dispose of conta laboratory practic Material: Nitrile ru If used in solution from EN 374, cor advisory only and with the specific s	ut touching glove's out minated gloves after us ces. Wash and dry han ubber Minimum layer th n, or mixed with other s ntact the supplier of the d must be evaluated by	nickness: 0.11 mm. substances, and under cor e CE approved gloves. Th r an industrial hygienist an use by our customers. It s	ontact with this product blicable laws and good nditions which differ is recommendation is ad safety officer familiar
Other Protec Engineering (Ventilation e		 Choose body protection in relation to its type, to the concentration and am dangerous substances, and to the specific work-place. General ventilation is usually adequate. Local exhause should be used if r safe, comfortable working conditions. 			
Work/Hygienic/Maintenance Handle in Practices: wash han Remove		Handle in accord wash hands befo	An eye bath and washing facilities should be readily available. andle in accordance with good industrial hygiene and safety practice. Users should ash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. emove all dirty or contaminated clothing and wash it before reusing, as well as any ther PPE.		
Environment	al Exposure	Do not apply dire	etly to water to prope	where curface water is pr	

	9. Physical and Chemical Properties
Physical States:	[]Gas [X]Liquid []Solid
Appearance and Odor:	Clear, blue
	No odor.
pH:	8.5-10.5
Melting Point:	N.E.
Boiling Point:	N.E.
Flash Pt:	NA Method Used: Estimate
Evaporation Rate:	No data.
Flammability (solid, gas):	Product is non-flammable.
Explosive Limits:	LEL: N.A. UEL: N.A.
Vapor Pressure (vs. Air or	NE
mm Hg):	
Vapor Density (vs. Air = 1):	NE
Specific Gravity (Water = 1):	1.307 - 1.347
Density:	11.1 LB/GA
Solubility in Water:	No data.
Octanol/Water Partition	No data.
Coefficient:	
Autoignition Pt:	No data.
Decomposition Temperature:	No data.
Viscosity:	No data.
	10. Stability and Reactivity
Reactivity:	No data available.
Stability:	Unstable [] Stable [X]
Conditions To Avoid -	No data available.
Instability:	
Incompatibility - Materials To	Strong oxidizing agents.
Avoid:	
•	No data available. In the event of fire: see section 5.
Byproducts:	
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid -	No data available.
Hazardous Reactions:	

	11. Toxicological Information	
Toxicological Information:	Mutagenicity: This product has not been investigated for mutagenic effects. Embryotoxicity: This product has not been investigated for embryotoxic effects. Teratogenicity: This product has not been investigated for teratogenic effects. Reproductive Toxicity: This product has not been investigated for toxic reproductive effects.	
	CAS# 10043-35-3: Acute toxicity, LD50, Oral, Rat, 2660. MG/KG. Result: Gastrointestinal:Hypermotility, diarrhea. Gastrointestinal:Nausea or vomiting. ; Journal of the American Medical Association, American Medical Association, 535 N. Dearborn St., Chicago, IL 60610, Vol/p/yr: 128,266, 1945	
Irritation or Corrosion:	No data available.	
Symptoms related to Toxicological Characteristics:	No data available.	
Sensitization:	The sensitizing properties of this product have not been thoroughly investigated.	
Chronic Toxicological Effects:	The toxicological properties of this material have not been fully investigated.	
Carcinogenicity/Other Information:	The carcinogenic properties of this product have not been thoroughly investigated. The components of this product are not listed as a carcinogenic by CPDB, IARC, NTP, OSHA, CAL/OSHA and ACGIH.	
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No	
	12. Ecological Information	
General Ecological Information:	No environmental impact studies have been performed with this product. The available data on this plant nutrient material does not indicate any undue hazard to the environment under anticipated use and storage. All work practices must be aimed at eliminating environmental contamination. Any waste due to spillage or leakage should be contained and disposed of accordingly, see Section 6 "Accidental Release Measures." Due to its nutritional nature, may cause eutrophication if dicharged in bodies of water.	
Results of PBT and vPvB assessment:	No data available.	
Persistence and Degradability:	No data available.	
Bioaccumulative Potential:	No data available.	
Mobility in Soil:	No data available.	
	13. Disposal Considerations	
Waste Disposal Method:	This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local waste regulatory authority. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Dispose of empty container in a sanitary landfill or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Avoid contaminating water by disposal of equipment wash waters or other product wastes. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3.	

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ne: Not Regulated. Trade Name: LIQUID BORON
G/IMO):
e: Not Regulated. Trade Name: LIQUID BORON
Packing Group:
IMDG MFAG Number: N/A
A):
•)• e: Not Regulated. Trade Name: LIQUID BORON
-
Placards / Markings: N.A.
Emergency Response Guide Number: N.A
Reportable Quantity: N.A.
15. Regulatory Information
16. Other Information
04/04/2016
Flammability Instability Health
NFPA: Special Hazard
No data available.
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