Revision: 09/21/2021 Supersedes Revision: 09/21/2021

		Supersedes Revision: 09/21/2021		
	1. Product and Company Ider	ntification		
Product Code:	Z-ROOTFEEDDS			
Product Name:	ROOT FEED DS			
Company Name:	Stoller	Phone Number:		
	9090 Katy Freeway	1 (713)461-1493		
	Suite 400			
	Houston, TX 77024			
Web site address:	www.stollerusa.com			
Email address:	compliance@stollerusa.com			
Emergency Contact:	CHEMTREC, In the US and Canada call	1 (800)424-9300		
	CHEMTREC, From other countries call	+1 (703)527-3887		
Information:		1 (800)539-5283		
	2. Hazards Identification	on		
Serious Eye Damage/Eye Irri Acute Toxicity: Skin, Catego				
Acute Toxicity: Inhalation, C	-			
Acute Toxicity: Oral, Catego	• •			
HS Signal Word:	Warning			
GHS Hazard Phrases:	H302 - Harmful if swallowed.			
	H313 - May be harmful in contact with skin.			
	H320 - Causes eye irritation.			
	H333 - May be harmful if inhaled.			
GHS Precautionary Phrases:	: P264 - Wash hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product			
	P270 - Do not eat, drink or smoke when using this product.			
GHS Response Phrases:	P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel			
	unwell. R205 / 251 / 228 JE IN EVES: Bings coutiously with water for several minutes. Remarks			
	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.			
	P312 - Call a POISON CENTER of doctor/physician if you feel unwell. P330 - Rinse mouth.			
	P337+313 - If eye irritation persists, get medical advice/attention.			
GHS Storage and Disposal				
Phrases:	P501 - Dispose of contents/container to permitted waste facility.			
Potential Health Effects	Acute: Depending on the duration of contact	t overexposure can irritate the eves skin		
Acute and Chronic):	Acute: Depending on the duration of contact, overexposure can irritate the eyes, skin, mucous membranes and any other exposed tissue.			
Chronic: Not known. Expected toxicity hazard: slight.		rd: slight.		
nhalation:	nalation: May cause respiratory tract irritation. Prolonged exposure to low concentration			
	may cause sore throat, headache, nausea,	dizziness and even unconsciousness.		
kin Contact:	May cause discomfort, skin irritation or rash unless treated promptly.			
ye Contact:	Contact with product may cause redness, sl	light to severe eye irritation.		
ngestion:	May cause digestive tract disturbances.			
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	3	. Composition/In	formation on I	ngredients
CAS #	Components (C	hemical Name)	Concentration	RTECS #
57-13-6	Urea	<25.0 % YR6250000		
22691-02-7	Calcium Chloride		<55.0 %	EV9800000
7791-18-6	Magnesium chloride (hydrated)		<20.0 %	OM2975000
10043-35-3	Boric acid	< 5.0 % ED4550000		ED4550000
7440-09-7	Potassium chlori	de	< 6.0 %	TS6460000
	·	4. First	Aid Measures	
Emergency a Procedures:	and First Aid	Victims of severe exposure to chemicals must be taken to health providing centers for medical attention. Always bring with victim a copy of label and SDS of product to health professional.		
In Case of In	halation:	Move patient to fresh air. Supplemental oxygen may be needed. Assure mucous doe not obstruct airways. Seek medical attention if victim's breathing becomes difficult.		
In Case of Sk	kin Contact:	Wipe off product and immediately wash affected area with abundant soap and water. Remove contaminated clothing taking care not to impregnate eyes. Seek medical attention if irritation occurs.		
In Case of Ey	/e Contact:	Holding eyelids apart, in Seek medical attention		s with running water for at least 15 minutes urs.
In Case of In	gestion:	Get immediate medical advice/attention. If ingested, do not induce vomiting. Contact a physicial or poison control center.		
Note to Phys	ician:	Treat symptomatically and supportively.		
		5. Fire Fig	ghting Measur	es
Flash Pt:		N.A.		
Explosive Lii	mits:	LEL: N.A. UEL: N.A.		
Autoignition	Pt:	N.A.		
Suitable Exti	nguishing Med	a:CO2 or Dry Powder.		
Unsuitable E Media:	xtinguishing	Do not use direct water.		
Fire Fighting	Instructions:	None specific for this product, however, it is suggested that firefighters wear self-contained breathing apparatus (SCBA) and full protective equipment, such as chemical resistant clothing.		
Flammable P Hazards:	Properties and	Toxic fumes under fire conditions such as NH3, NO, NO2, etc.		
Hazardous C Products:	combustion	Do not breathe smoke.		
		6. Accidenta	I Release Meas	sures
Protective Pr Protective Ec Emergency F	quipment and	In case of a large spill, clear the affected area and protect people. Such releases should be responded to by trained personnel using pre-planned procedures. In the event of an incidental release, minimum Personal Protective Equipment must be worn: latex or rubber gloves and rubber boots, goggles or full face-shield and coveralls.		
Steps To Be Material Is Ro Spilled:	Taken In Case eleased Or	It is necessary to contain the spill into the smallest area possible by diking, scooping, shoveling, etc., and place liquid into an appropriate container, labeling it accordingly. If product is clean, use it as intended, following original label directions; should it get contaminated, salvage for proper disposal as waste. Absorb residual product onto dry carrier such as dirt, sand or any other absorbent		
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material, then put in covered, labeled containers and dispose of as dry waste in accordance with Federal, State and Local waste disposal regulations.				
7. Handling and Storage				
Precautions To Be Taken in Handling:	All personnel who handle this material should be trained to work with it safely. Avoid breathing vapors or mist; use in well-ventilated location.			
Precautions To Be Taken in Storing:	Store in a cool, dry place, away from food, feed, clothing materials and living quarters. Whenever possible, place chemicals on secondary containers or diked area. Inspect all incoming containers before storage to ensure all are properly labeled and not damaged. Keep containers tightly closed when not in use.			

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits	
57-13-6	Urea		No data.	TLV: 10 mg/m ³ /8 hr	No data.	
22691-02-7	Calcium Chloride		No data.	TLV: 10 mg/m ³	No data.	
7791-18-6	Magnesium chlori	de (hydrated)	No data.	TLV: 10 mg/m ³	No data.	
10043-35-3	Boric acid		No data.	TLV: 2 mg/m ³ STEL: 6 mg/m ³	No data.	
7440-09-7	Potassium chloride		No data.	No data.	No data.	
(Specify Typ	e):	conditions warrant approved respirato experienced.	ropean Standard EN 149 m respirator use. Use a NIOS r if exposure limits are exce HA approved respirator if w	H/OSHA or European Sta eded or if irritation or othe	ndard EN 149 er symptoms are	
Eye Protection: Safety glasses sl		Safety glasses sho	uld be worn in any type of c	peration with chemicals.		
Protective G	tective Gloves: Wear appropriate protective gloves to prevent skin exposure.					
Other Protec	ther Protective Clothing: Long-sleeved shirt, long pants and protective shoes should be worn as a good s practice.			a good safety		
Engineering (Ventilation e		General ventilation is usually adequate. Local exhaust should be used if needed for s comfortable working conditions. An eye bath and washing facilities should be readily available.				
Practices: cher		chemicals. Wash th	general rule, do not eat, drink, smoke, and/or chew gum or tobacco when handling icals. Wash thoroughly after handling this product. Remove all dirty or minated clothing and wash it before reusing.			

9. Physical and Chemical Properties Physical States: [] Gas [] Liquid [X] Solid Appearance and Odor: White granules with no odor. pH: 3.15-3.35 - in 10% sol. Melting Point: N.A. Boiling Point: N.A. Boiling Point: N.P Flash Pt: N.A. Evaporation Rate: No data. Flammability (solid, gas): Product is non-flammable. Explosive Limits: EE: N.A. Vapor Pressure (vs. Air or NA mm Hg): Vapor Density (vs. Air = 1): NA data. Solubility in Water: 100% Solubility in Water: 100% Saturated Vapor NA Concentration: Octanol/Water Partition Octanol/Water Partition N.E. Coefficient: N.D. Percent Volatilie: N.D. Autoignition Pt: N.A Decomposition Temperature: N.E. Viscosity: NA Molecular Formula & Weight: Proprietary 0.0 Stable under normal condition, but avoid contact with incompatib						
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10. Stability and Reactivity Stability: Unstable [] Stable [X] Conditions To Avoid - Stable under normal condition, but avoid contact with incompatible materials. Instability: Incompatibility - Materials To Bleach (sodium hypochlorite), strong acids (phosphoric, sulfuric), strong oxidizing agents. Hazardous Decomposition or Toxic fumes if mixed with incompatible materials. Toxic fumes under fire conditions such as NH3, NO, NO2, etc. Possibility of Hazardous Will occur [] Will not occur [X] Reactions: Conditions To Avoid - No data available.						
Stability: Unstable [] Stable [X] Conditions To Avoid - Stable under normal condition, but avoid contact with incompatible materials. Instability: Incompatibility - Materials To Bleach (sodium hypochlorite), strong acids (phosphoric, sulfuric), strong oxidizing agents. Hazardous Decomposition or Toxic fumes if mixed with incompatible materials. Toxic fumes under fire conditions such as NH3, NO, NO2, etc. Possibility of Hazardous Will occur [] Will not occur [X] Reactions: No data available.	Molecular Formula & Weight:	Proprietary 0.0				
Conditions To Avoid - Stable under normal condition, but avoid contact with incompatible materials. Instability: Incompatibility - Materials To Bleach (sodium hypochlorite), strong acids (phosphoric, sulfuric), strong oxidizing agents. Avoid: agents. Hazardous Decomposition or Toxic fumes if mixed with incompatible materials. Toxic fumes under fire conditions such as NH3, NO, NO2, etc. Possibility of Hazardous Will occur [] Will not occur [X] Reactions: No data available.	10. Stability and Reactivity					
Instability: Incompatibility - Materials To Bleach (sodium hypochlorite), strong acids (phosphoric, sulfuric), strong oxidizing agents. Avoid: agents. Hazardous Decomposition or Toxic fumes if mixed with incompatible materials. Toxic fumes under fire conditions such as NH3, NO, NO2, etc. Possibility of Hazardous Will occur [] Will not occur [X] Reactions: Conditions To Avoid -	Stability:	Unstable [] Stable [X]				
Avoid: agents. Hazardous Decomposition or Toxic fumes if mixed with incompatible materials. Toxic fumes under fire conditions such as NH3, NO, NO2, etc. Possibility of Hazardous Will occur [] Will not occur [X] Reactions: Conditions To Avoid -		Stable under normal condition, but avoid contact with incompatible materials.				
Byproducts: as NH3, NO, NO2, etc. Possibility of Hazardous Will occur [] Will not occur [X] Reactions: Conditions To Avoid - No data available.						
Possibility of Hazardous Will occur [] Will not occur [X] Reactions: Conditions To Avoid - No data available.	-	·				
	-	Will occur [] Will not occur [X]				
Hazardous Reactions:		No data available.				

Revision: 09/21/2021 Supersedes Revision: 09/21/2021

	Superseues Revision. 09/21/2	021		
	11. Toxicological Information			
Toxicological Information:	Mutagenicity: The components of this product are not reported to produce mutagenic effects in humans.	с		
	Embryotoxicity: The components of this product are not reported to produce embryo effects in humans.	toxic		
	 Teratogenicity: The components of this product are not reported to produce teratogenic effects in humans. Reproductive Toxicity: The components of this product are not reported to produce toxic reproductive effects in humans. However, urea is being investigated as a reproductive effector. CAS# 7791-18-6: Acute toxicity, LD50, Oral, Rat, 8100. MG/KG. Result: Effects on Fertility: Abortion. ; American Industrial Hygiene Association Journal., AIHA, 475 Wolf Ledges Pkwy., Akron, OH 44311, Vol/p/yr: 30,470, 1969 			
	CAS# 10043-35-3: Acute toxicity, LD50, Oral, Rat, 2660. MG/KG. Result: Gastrointestinal:Hypermotility, diarrhea. Gastrointestinal:Nausea or vomiting. ; Jour of the American Medical Association, American Medical Association, 535 N. Dearbo St., Chicago, IL 60610, Vol/p/yr: 128,266, 1945			
Carcinogenicity/Other Information:	No component is listed as a carcinogenic by IARC, NTP, OSHA, and ACGIH.			
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No			
	12. Ecological Information			
General Ecological Information:	The available data on the raw materials does not indicate any undue hazard to the environment under anticipated conditions of storage and use.			
	13. Disposal Considerations			
Waste Disposal Method:	Waste disposal must be done following all Federal, State and Local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility of advised by your local waste regulatory authority.			
	14. Transport Information			
LAND TRANSPORT (US DO				
DOT Proper Shipping Na DOT Hazard Class: UN/NA Number:	ne: Not Regulated. Trade Name: ROOT FEED DS			
MARINE TRANSPORT (IMD	5/IMO):			
IMDG/IMO Shipping Name UN Number: Hazard Class:	 Not Regulated. Trade Name: ROOT FEED DS Packing Group: 			
AIR TRANSPORT (ICAO/IAT	A):			
ICAO/IATA Shipping Nam UN Number: Hazard Class:	e: Not Regulated. Trade Name: ROOT FEED DS Packing Group:			
Additional Transport Information:	Placards / Markings: N.A.			
	Emergency Response Guide Number: N.A.			
Licensed to Steller LISA				

15. Regulatory Information

Regulatory Information:	TSCA Inventory: In c	ompliance with inventory requirement	s for commercial purposes.
	16. Ot	her Information	
Revision Date:	09/21/2021	Previous revision:	09/21/2021
Hazard Rating System:		Flammability Instability Health	
		NFPA: Vspecial Haza	ard
Additional Information About This Product:	ut No data available.		
Company Policy or Disclaimer:	the information provid does not guarantee the furnished without war the goods, the merch purpose. Users shoul gathered by them and completeness of infor materials and the safe	formation contained in this Safety Da led by reputable suppliers of our raw heir accuracy or completeness. The ir ranty of any kind, whether expressed antability of the goods, or the fitness of d consider these data only as a suppl must make independent determinati mation from all sources to assure pro- ety and health of employees and cust its obtained or for incidental or conse data.	materials. However, Stoller normation contained herein is or implied, as to the safety of of the goods for any particular lement to other information on of suitability and oper use and disposal of these omers. Stoller assumes no