ZUMSIL

Guaranteed Analysis - Silicon Dioxide (SiO2) Available Silicon (Si)

18% 20%

Directions for Use/Application rates:

To bare soil: Use 2 liter of product diluted with minimum 100 litres (22 gallons) of clean water applied by sprayer or overhead irrigation. Repeat as necessary based on soil tests and advice from a professional crop advisor, not to repeat applications less than 30 days apart.

Dilution Rates:

Foliar Spray: The dilution rate should be 1:1000.

Drip Irrigation: The dilution rate should be 1:1500 with a minimum of 1:1200.

Mixing Instruction: Important: Do not premix! Add clean water. Add ZumSil at recommended rate. Mix well. Add remaining agro chemicals. (additives, crop protection). Apply within 4 – 8 hours. Warnings: Do not mix with acids as product is highly alkaline

Storage and Handling:

*always mix well before use.

Keep at room temperature.

Containers must be closed when not in use.

In case of spills wash with water.

Caution: wet surfaces are slippery.

Health and Emergency First Aid:

Keep out of reach from children and pets.

Use rubber gloves and standard eye protection.

Eye contact: eye irritant - flush eyes with water.

Skin contact: skin irritant - flush with water.

Ingestion: may cause stomach pain, nausea, cramps and vomiting. Seek immediate medical attention.

Avoid Inhalation. Use of an appropriate mask is advised.

There is no warranty, either expressed or implied, concerning the use of this product other than indicated on the label, by distributor or manufacturer of this product. The recommendations herein for the use of this product are based on tests believed to be reliable. Recommendation of a professional consultant, actual use, and actual application of the product are beyond the control of the manufacturer and distributor, and therefore no guarantees or warranties are expressed or implied relating to the effectiveness or performance of the product.

Registration Number: 2016009A Fertilizers Act Lot number: Container size: 10 litre 1000 litre

Distributed by:

High Brix Manufacturing 25147 TWP 490, Leduc County, Alberta, T4X 2N4



Mis per 4047 m2 Crop (1 acre)		Foliar Application or Fertigation
Peach	150-210 mls	Every 15 days from flowering to fruit formation
Grape	150-210 mls	Every 15 days from early shoots (3') to ripening
Kiwi	150-210 mls	Every 10-15 days from pre-flowering to ripening
Melons	150-210 mis	Every 12 days from first vegetative growth to ripening
Strawberries	150-210 mls	Every 10 – 15 days from planting to start of overwintering, then from re growth the following year to pre harvest.
Zucchinl	150-210 mls	Every 15 days from vegetative growth to pre-harvest
Tomatoes	150-210 mls	Every 8 – 10 days from transplant to fruit
Sweet Peppers	150-210 mis	Every 10 – 12 days from after flowering to pre-harvest
Cucumbers	150-210 mis	Every 10 -12 days from initial vegetative to pre-harvest
Potatoes	150-210 mis	Every 8 -10 days during most intensive growth period
Leeks	150-210 mis	Every 15 days from initial vegetative growth to pre-harvest
Onions	150-210 mls	Every 15 days during critical phase of production growth
Garlic	150-210 mls	Every 8 – 10 days during most extensive growth period.
Legumes	150-210 mls	Every 15 days from germination to pre-harvest
Eggplant	150-210 mls	Every 8 – 12 days from transplant to full production
Lettuce	150-210 mls	Every 10 – 15 days from germination to pre-harvest
Vegetables (Leafy Greens)	150-210 mls	Every 10-15 days from germination to pre-harvest
Rice	300 - 360 mls	First at germination, followed by application with herbicide
String Beans	150-240 mis	Repeat application every 10 – 15 days
Grain Crops	450 – 600 mls	At Germination, followed by application with herbicide/fungicide – again as seed set with fungicide if needed
Green House (FloricutIture)	60-120 mls Per 50 square meters.	Every 10 – 15 days from germination to pre-harvest

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Section 1	Identification of the mixture	e and of the company
	Product identifier	
1.1	Product name	ZumSil
	Synonyms	MONO-SILIC ACID
12		e mixture and uses advised against
1.2	Use of the product	Fertilizer
	Uses advised against	No information available at present.
13	Details of the supplier of the	
1.0	Manufacturer	Terra Tech Int. LLC
		320 S. Flamingo Rd. #339
		Pembroke Pines, FI.33027
		USA
	Supplier	High Brix Manufacturing Inc.
	Address	25147 Township Road 490
		Leduc County, AB - T4X 2N4
	Phone (technical)	+1 587-671-0111
	E-mail	info@highbrixmanufacturing.com
1.4	Emergency telephone number	
	Phone (medical)	+1-844 POISON-X(764-7669)
Section 2	Homordo identification	(Canada Poison Control Center)
	Hazards identification	
2.1	Classification of the mixture	Llashta 4 Elemenahilitar 0 Basatinitar 0
0.0	NFPA Ratings:	Health: 1 Flammability: 0 Reactivity: 0
2.2	Label elements	Nie - Leonardaue
	Label Hazard Warning: Label Precautions:	Non-hazardous.
	Laber Precautions:	None. If swallowed, do not induce vomiting unless directed by medical
		personnel. Never give anything by mouth to an unconscious
	Label First Aid:	person. If inhaled, remove to fresh air. If not breathing, give
	Laber I inst Ald.	artificial respiration. If breathing is difficult, give oxygen. In case
		of contact, immediately flush eyes or skin with plenty of water for
23	Emergency Overview	at least 15 minutes. In all cases call a physician.
2.0	Lifergency Overview	HAZARDOUS in case of eye contact, ingestion or inhalation.
24	Terra Tech International SAE	ETY-Ratings (Provided here for your convenience)
2.4	Terra Tech International SA	Health Rating: 1 – Slightly hazardous, Irritant
		Flammability Rating: 0 – nonflammable
		Reactivity Rating: 0 – Nonreactive
		Contact Rating: 0 – Non-hazardous
		Lab Protective Equip: EYE PROTECTION (GOGGLES); LAB
		COAT or APRON; PROPER GLOVES Storage Color Code: White
25	Potential Health Effects	
2.0	Inhalation:	May cause respiratory tract irritation.
	Ingestion:	Ingestion is unlikely to have any toxic effects, but the product
	-	may act as an intestinal irritant.
	Skin Contact:	Harmful effects are not expected from short periods of exposure.
	Fire Contracts	Prolonged or repeated exposure may cause irritation.
	Eye Contact:	May cause eye irritation; Symptoms may include discomfort or pain, excessive blinking, and tear production.
	Chronic Exposure:	Prolonged lung contact to the respiratory tract may cause
		irritation. Prolonged skin contact may lead to irritation. No target
		organ chronic effects under normal conditions of use.

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Aggravation of Preexisting Conditions: Because of its irritating properties, dust and allergens may aggravate pre-existing eye, skin, and respiratory conditions.

Section 3	Composition/information on ingredients					
		Ingredients	CAS Number	Percentage	Hazardous	
		WATER	7732-18-5	76 %	No	
		MONO-	7699-41-4	24 %	No	
		SILICIC ACID	1000 41 4	24 70		
Section 4	First aid measures					
	Inhalation:	breathing is diffi	cult, give oxyg be kept under	eathing, give artifi en. Call a physic medical observate of exposure.	ian. Exposed	
	Ingestion:	Treat systematically. Not expected to be toxic by ingestion. No emergency care is anticipated. Wash skin with soap and water. Remove contaminated clothing. Wash clothing before reuse. Obtain medical attention if irritation persists.				
	Skin Contact:					
	Eye Contact:					
	Lyc contact.	No emergency care is anticipated. Check for and remove any contact lenses. Immediately flush eyes with plenty of water for a least 15 minutes, lifting lower and upper eyelids occasionally. Cold water may be used. Get medical attention if discomfort persists.				
Section 5	Firefighting measures					
	Fire:	Flash point: > 23	30°F			
	Special Fire Fighting Instructions:	Use water spray to cool fire exposed containers and structures Do not direct solid water stream into burning molten material, thus causing splattering and spreading of the fire.				
	Fire Extinguishing Media:			ater spray, foam.		
	Products of Combustion:	Small amounts of	of silicon oxide	s may be release	ed.	
	Special Information:	In the event of a fire, wear full protective clothing and NIOSH- approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.				
Section 6	Accidental release measure	es				
				Wear appropriate	e personal	
		and unprotected	tion 8. Isolate I personnel	hazard area. Ke o sewers, basem		
		areas; dike if ne	eded.	e care to avoid fa		
		Regulations (CE	RCLA) require	9	-	
		reportable quant	tities. The Tol	o soil, water and a free number for ater is (800) 424-8	the US Coast	
Section 7	Handling and storage					
		physical damage	e. Store in a ell-ventilated lo	containers. Prote	-	

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from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Containers of this material are non-hazardous when empty.

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Section 8	Exposure controls/persona	•				
	Airborne Exposure Limits:	Not normally needed. Ventilation is not normally required. If there is a large spill, wear an appropriate organic filter mask to reduce lung irritation.				
	Skin Protection:	Not normally needed. Wear appropriate protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to minimize skin contact when handling large quantities.				
	Eye Protection:	Not normally needed. Wear appropriate chemical safety glasses or goggles and/or a full face shield where splashing is possible.				
Section 9	Physical and chemical prop	Physical and chemical properties				
	Appearance:	Clear Grey-Dark Grey liquid.				
	Odor:	None.				
	Solubility:	Soluble in water.				
	Specific Gravity:	1.30				
	PH:	12.5				
	% Volatiles by volume @ 21°C (70°F):	Not available				
	Boiling Point:	> 230°F.				
	Melting Point:	No information found.				
	Vapor Pressure:	N/A.				
	Vapor Density:	N/A				
Section 10	Stability and Reactivity					
	Stability:	Stable under ordinary conditions of use and storage.				
	Hazardous Decomposition	Silicon oxides may form when burned.				
	Products: Hazardous	Will not occur.				
	Polymerization:					
	Incompatibilities:	Select water reactant metals.				
	Conditions to Avoid:	N/A.				
Section 11	Toxicological information					
	Toxicological Data:	This product may cause eye irritation. This product is non- hazardous under normal conditions of use. OSHA/HMIS has listed silicon dioxide as non-hazardous under normal conditions of use.				
Section 12	Ecological information					
	Environmental Fate:	This product under normal dilution to drains, sewers, and treatment plants is not considered environmentally harmful.				
	Environmental Toxicity:	This product under normal dilution to drains, sewers, and treatment plants is not considered environmentally harmful.				
Section 13	Disposal considerations					
		This product is considered a non-hazardous waste under RCRA, as supplied. Whatever				

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		cannot be saved for recovery or in non-hazardous waste and can be sent to a RCRA approved RCRA approved waste facility. Processing, use or conta change the waste management of regulations may differ from feder of container and unused contents state and local requirements.	incinerator or disposed in a mination of this product may options. State and local disposal al disposal regulations. Dispose	
Section 14	Transport Information			
14.1	Domestic (Land, D.O.T.)			
	Proper Shipping Name:	Non-hazardous		
	Hazard Class:	Non-hazardous		
	UN/NA:	Non-hazardous		
	Packing Group:	N/A		
	Information reported for			
14.0	product/size:	55 gal drum & 275 gal totes		
14.2	International (I.M.D.G.)	400		
14.2	Product is not regulated by IN International (Air, I.C.A.O.)	IDG.		
14.3	Proper Shipping Name:	Non-hazardous		
	Hazard Class:	Non-hazardous		
	UN/NA:	N/A		
	Packing Group:	N/A		
	Information reported for			
	product/size:	55 Gallon drum		
Section 15				
Section 15	Regulatory information Chemical Inventory Status -	Ingredients	CAS Number	
	Part 1	Ingredients	CAS Nulliber	
			7700 40 5	
		WATER	7732-18-5	
		SILICIC ACID	7699-41-4	
		SILICIC ACID This product is regulated by the I	7699-41-4	
		SILICIC ACID This product is regulated by the I Administration, under the U.S.	7699-41-4 Environmental Protection	
		SILICIC ACID This product is regulated by the I Administration, under the U.S. Environmental Protection Act as	7699-41-4 Environmental Protection a non-hazardous fertilizer. The	
		SILICIC ACID This product is regulated by the I Administration, under the U.S.	7699-41-4 Environmental Protection a non-hazardous fertilizer. The	
Section 16	Other information	SILICIC ACID This product is regulated by the I Administration, under the U.S. Environmental Protection Act as MSDS is prepared to the OSHA Standard, 29CFR 1910:1200	7699-41-4 Environmental Protection a non-hazardous fertilizer. The Hazard Communication	
Section 16	Other information	SILICIC ACID This product is regulated by the I Administration, under the U.S. Environmental Protection Act as MSDS is prepared to the OSHA Standard, 29CFR 1910:1200 This information only concerns th does not need to be valid if used	7699-41-4 Environmental Protection a non-hazardous fertilizer. The Hazard Communication he above-mentioned product and with other product(s) or in any r best present knowledge correct of faith but without warranty. It polity to make sure that the	
	Other information	SILICIC ACID This product is regulated by the I Administration, under the U.S. Environmental Protection Act as MSDS is prepared to the OSHA Standard, 29CFR 1910:1200 This information only concerns th does not need to be valid if used process. The information is to ou and complete and is given in goo remains the user's own responsil information is appropriate and co	7699-41-4 Environmental Protection a non-hazardous fertilizer. The Hazard Communication he above-mentioned product and with other product(s) or in any r best present knowledge correct of faith but without warranty. It polity to make sure that the	