



Printed: 10/02/2014 Revision: 06/20/2013

• • • 1_Pr	oduct and C	omnany	Identification		
Product Code:	901619	ompany	lacitimeation		
Product Name:	Allectus 0.225 G 12-0-0 50%SCU				
Trade Name:	Fertilizer with Pesticide				
Manufacturer Information		colloide			
Company Name:	Turf Care Supply Corp.				
Company Name.	50 Pearl Road				
	Suite 200				
		Suite 200 Brunswick, OH 44212			
Phone Number:	1 (330)558-091				
	PERS	10	4 (000)622 0252		
Emergency Contact:			1 (800)633-8253		
Information:	Turf Care Supp		1 (330)558-0910		
Web site address:	www.turfcaresu				
Email address:	regaffairs@tcsc	usa.com			
	2. Hazard	ls Identifi	cation		
GHS Classification					
GHS Classification		Key word	GHS hazard phrase		
Acute Toxicity: Oral, Category 4	Exclamation point	Warning	Harmful if swallowed		
Acute Toxicity: Skin, Category 5	•	Warning	May be harmful in contact with skin		
Carcinogenicity, Category 1A	Health hazard	Danger	May cause cancer		
GHS Hazard Phrases:	H315 - Causes skin irritation.				
	H319 - Causes serious eye irritation.				
	H335 - May cau	•	y irritation. o organs through prolonged or repeated exposure.		
GHS Precaution Phrases:	-	-			
GHS Flecaution Finases.	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P280 - Wear protective gloves/protective clothing/eye protection/face protection				
		-	FER or doctor/physician if you feel unwell.		
GHS Response Phrases:	No data availab	ole.			
GHS Storage and Disposal	No data availab	ole.			
Phrases:					
Target Organs:	Eyes, Gastroint	estinal Syste	m, Respiratory system.		
Potential Health Effects (Acute and	Chronic: Prolon	iged or repea	ted skin contact may cause dermatitis. Prolonged		
Chronic):	• •	•	ause permanent eye damage. Chronic exposure		
	, ,		lverse reproductive effects have been reported in		
			e reported the development of tumors. Not zard. Effects may be delayed.		
Inhalation:			w hazard for normal industrial handling. The		
	•		s substance have not been fully investigated. May		
	cause systemic	effects. Mate	erial may be irritating to mucous membranes and		
	upper respirator	ry tract.			



Skin Contact:	May cause skin irritation. Dust causes mechanical irritation. Low hazard for usual industrial handling.		
Eye Contact:	May cause eye irritation. Dust may cause mechanical irritation.		
Ingestion:	May be harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Low hazard for normal industrial handling. The toxicological properties of this substance have not been fully investigated. May cause systemic effects.		
3. Com	position/Information on Ingredients		
Hazardous Components (Chemical Name)	CAS # Concentration		
1. Limestone	1317-65-3 66.99 %		
2. Urea	57-13-6 26.15 %		
3. Quartz	14808-60-7 2.233 %		
4. Sulfur	7704-34-9 2.001 %		
<ol> <li>Imidacloprid</li> <li>Bifenthrin</li> </ol>	138261-41-3 0.125 % 82657-04-3 0.100 %		
	4. First Aid Measures		
Emergency and First Aid Procedure			
In Case of Inhalation:	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.		
In Case of Skin Contact:	Get medical aid if irritation develops or persists. In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse. Wash off with soap and plenty of water.		
In Case of Eye Contact:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid. Do NOT allow victim to rub eyes or keep eyes closed.		
In Case of Ingestion:	Get medical aid. Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Call a poison control center. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.		
Note to Physician:	Treat symptomatically and supportively.		
Signs and Symptoms Of Exposure:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.		
	Amorphous silica is not classifiable as to its carcinogenicity to humans (Group 3); however, crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1) (IARC, Vol. : 68 (1997) (p. 41)). Therefore, amorphous silica should be handled as if possessing the same hazards as the crystalline form.		
	CHRONIC EXPOSURE - CARCINOGEN. This product is or contains a component that is not classifiable as to its		
	carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. Prolonged inhalation of crystalline silica may result in silicosis, a disabling pulmonary fibrosis characterized by fibrotic changes and miliary nodules in the lungs, a dry cough, shortness of breath, emphysema, decreased chest expansion, and increased susceptibility to tuberculosis. In advanced stages, loss of appetite, pleuritic pain, and total incapacity to work. Advanced silicosis may result in death due to cardiac failure or destruction of lung tissue. Crystalline silica is classified as group 1 "known to be carcinogenic to humans"		



by IARC and "sufficient evidence" of carcinogenicity by the NTP. The chronic health risks are associated with respirable particles of 3-4 um over protracted periods of time.

	5. Fire Fighting Measures
Flash Pt:	No data.
Explosive Limits:	LEL: No data. UEL: No data.
Autoignition Pt:	No data available.
Fire Fighting Instructions:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible. Decomposes at high temperatures, resulting in toxic and corrosive products. Runoff from fire control or dilution water may cause pollution.
Flammable Properties and Hazards:	No data available.
Suitable Extinguishing Media:	Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. For small fires, use dry chemical, carbon dioxide, or water spray. For large fires, use dry chemical, carbon dioxide, alcohol-resistant foam, or water spray.
Unsuitable Extinguishing Media:	No data available.
6.	Accidental Release Measures
Steps To Be Taken In Case Material Is Released Or Spilled:	Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Avoid runoff into storm sewers and ditches which lead to waterways. Do not let this chemical enter the environment except as directed on product label. Clean up spills immediately, observing precautions in the Protective Equipment section.
	Personal precautions. Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.
	Environmental precautions. Do not let product enter drains.
	Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.
	PROCEDURES & PERSONAL PRECAUTIONS. Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.
	Methods for cleaning up. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.



# **TurfCare**SAFETY DATA SHEET<br/>Allectus 0.225 G 12-0-0 50%SCU

	7. Handl	ing and Storage		
Precautions To Be Taken in Handling:	Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Wash thoroughly after handling. Use only in a well-ventilated area. Keep container tightly closed. Wash clothing before reuse.			
	Provide appropriate exhaust ventilation at places where dust is formed.			
Precautions To Be Taken in Storing:	Store in a cool, dry place. Keep container closed when not in use.			
Other Precautions:	Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or by disposal of wastes, including equipment wash water. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Apply this product as specified on the label.			
8. Exp	osure Cont	rols/Personal Pr	otection	
Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limits
1. Limestone	1317-65-3	80 mg/m3/(%SiO2)	10 mg/m3	No data.
2. Urea	57-13-6	No data.	No data.	No data.
3. Quartz	14808-60-7	8825 ppm/(%SiO2+5)	0.05 mg/m3 (R)	No data.
4. Sulfur	7704-34-9		No data.	No data.
5. Imidacloprid	138261-41-3	15 (dust); 5 (resp.) mg/m3	10 mg/m3	No data.
6. Bifenthrin	82657-04-3		No data.	No data.
Respiratory Equipment (Specify Type):	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges.			
Eye Protection:	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.			
Protective Gloves:	Wear appropriate protective gloves to prevent skin exposure. Wash and dry hands.			
Other Protective Clothing:	Wear appropriate protective clothing to prevent skin exposure. Choose body protection according to the amount and concentration of the dangerous substance at the work place.			
Engineering Controls (Ventilation etc.):	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.			
Work/Hygienic/Maintenance Practices:		ordance with good indust preaks and at the end of		• •



9. PI	hysical and Chemical Properties
Physical States:	[]Gas []Liquid [X]Solid
Melting Point:	No data.
Boiling Point:	No data.
Autoignition Pt:	No data.
Flash Pt:	No data.
Specific Gravity (Water = 1):	No data.
Bulk density:	~ 45 - 65 LB/CF
Vapor Pressure (vs. Air or mm Hg):	No data.
Vapor Density (vs. Air = 1):	No data.
Evaporation Rate:	No data.
Solubility in Water:	No data.
Percent Volatile:	No data.
Appearance and Odor:	Multi-colored. Granular Solid.
Appearance and Odor.	ammonia-like.
	10. Stability and Reactivity
Stability:	Unstable [ ] Stable [ X ]
Conditions To Avoid - Instability:	Incompatible materials, dust generation, heating to decomposition. High temperatures.
Incompatibility - Materials To Avoid:	Strong oxidizing agents, Bases, acids, Aluminum.
Hazardous Decomposition Or	Carbon monoxide, oxides of nitrogen, Carbon dioxide, oxides of sulfur, nitrogen
Byproducts:	oxides (NOx) and ammonia (NH3). Nitrogen oxides, oxides of phosphorus, Ammonia, Oxides of potassium, Hydrogen chloride, chlorine, irritating and toxic fumes and gases. formed under fire conditions.
Possibility of Hazardous Reactions:	Will occur [ ] Will not occur [ X ]
Conditions To Avoid - Hazardous Reactions:	No data available.
1	1. Toxicological Information
Toxicological Information:	Epidemiology: No information found.
<b>U</b>	Teratogenicity: No information available.
	Tumorigenic effects have been reported in experimental animals. Teratogenicity: Teratogenic effects have occurred in experimental animals. Adverse reproductive effects have occurred in experimental animals. Neurotoxic effects have occurred in experimental animals. Other Studies: Acute toxicity. No data available. Reproductive toxicity - no data available.
	Inhalation: May cause damage to organs through prolonged or repeated exposure.
	CAS# 57-13-6: Acute toxicity, LD50, Oral, Rat, 8471. MG/KG. Result:
	Tumorigenic: Carcinogenic by RTECS criteria. Lungs, Thorax, or Respiration: Tumors.
	Skin and Appendages: Other: Tumors. - Gigiena i Sanitariya, Mezhdunarodnaya Kniga, ul. B. Yakimanka, 39, 113095,



	Kevision. 00/20/2015
	Moscow 113095 Russia, Vol/p/yr: 51(6),8, 1986
	Standard Draize Test, Skin, Human, 22.00 MG, 3 D. Result:
	Tumorigenic: Neoplastic by RTECS criteria.
	Tumorigenic:Facilitates action of known carcinogens.
	- Cutaneous Toxicity, Proceedings of the 3rd Conference, 1976, D, V.A., and P.
	L, New York, Academic Press, Inc., London United Kingdom, Vol/p/yr: -,127, 1977
	CAS# 138261-41-3:
	Acute toxicity, LD50, Oral, Rat, 410.0 MG/KG. Result:
	Lungs, Thorax, or Respiration:Other changes.
	Gastrointestinal:Hypermotility, diarrhea.
	Kidney, Ureter, Bladder:Urine volume increased.
	- Agrochemcicals Japan., Japan Plant Protection Association, 1-43-11, Komagome, Toshima-ku, Tokyo 170 Japan, Vol/p/yr: (63),15, 1993
	Acute toxicity, LC50, Inhalation, Rat, 5323. MG/M3. Result:
	Behavioral: Convulsions or effect on seizure threshold.
	- Agrochemcicals Japan., Japan Plant Protection Association, 1-43-11,
	Komagome, Toshima-ku, Tokyo 170 Japan, Vol/p/yr: (63),15, 1993
	Acute toxicity, LD50, Skin, Rat, 5.000 GM/KG. Result:
	Blood:Other hemolysis with or withot anemia.
	- Agrochemcicals Japan., Japan Plant Protection Association, 1-43-11, Komagome, Toshima-ku, Tokyo 170 Japan, Vol/p/yr: (63),15, 1993
	CAS# 82657-04-3:
	Acute toxicity, LD50, Oral, Rat, 54500. UG/KG. Result:
	Lungs, Thorax, or Respiration:Acute pulmonary edema.
	- Pesticide Manual., The British Crop Protection Council, 20 Bridport Rd.,
	Thornton Heath CR4 7QG UK, Vol/p/yr: 9,73, 1991
	Acute toxicity, LD50, Skin, Species: Rabbit, 2.000 GM/KG. Result:
	Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis). Blood:Changes in spleen.
	Immunological Including Allergic: Decrease in cellular immune response.
	- Pesticide Manual., The British Crop Protection Council, 20 Bridport Rd., Thornton Heath CR4 7QG UK, Vol/p/yr: 9,73, 1991
Irritation or Corrosion:	No data available.
Carcinogenicity/Other Information:	CAS# 57-13-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 7783-20-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 1317-65-3: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 471-34-1: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS#



	<ul> <li>7783-28-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 111-46-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 7778-80-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 7447-40-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 55502-53-9: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 776-76-1: Not listed by ACGIH, IARC, NTP, or CA Prop 65. Carcinogenicity.</li> <li>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</li> <li>ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.</li> <li>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.</li> <li>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.</li> <li>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.</li> <li>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.</li> <li>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. IARC</li> <li>Group 2A: Suspected human carcinogenic substance.</li> <li>Additional studies are needed to determine whether the cell transforming activity of quartz is related to its carcinogenic potential.</li> </ul>
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No
	12. Ecological Information
General Ecological Information:	This product is extremely toxic to fish and aquatic invertebrates. Run-off may be hazardous to aquatic organisms in water adjacent to treated areas. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the lawn or garden will help to prevent run off to water bodies or drainage systems. This product contains a chemical with properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. If released to the atmosphere, urea will degrade rapidly in the vapor-phase by reaction with photochemically produced hydroxyl radicals (half-life of 9.6 hr). If released to soil, urea is hydrolyzed to ammonium through soil urease activity (the basis of its use as a fertilizer). The rate of hydrolysis can be fast (24 hr); however, a number a variables (such as increasing the pellet size of the fertilizer) can decrease the degradation rate from days to weeks. Oral LD50 values for bees range from 3.7 to 40.9 ng per bee, and contact toxicity values ranged from 59.7 to 242.6 ng per bee. Based on these values, imidacloprid is considered to be highly toxic to bees. (Schmuck, R.; Schoning, R.; Stork, A.; Schramel, O. Risk posed to honeybees (Apis mellifera L, Hymenoptera) by an imidacloprid seed dressing of sunflowers. Pest Manag. Sci. 2001, 57, 225-238, and Suchail, S.; Guez, D.; Belzunces, L. P. Discrepancy between Acute and Chronic Toxicity Induced by Imidacloprid and its Metabolites in Apis mellifera. Environ. Toxicol. Chem. 2001, 20 (11), 2482-2486.) CAS# 138261-41-3:



	LC50, Sheepshead Minnow (Cyprinodon variegatus), juvenile(s), 163.0 PPM,
	96 H, Mortality.
	Result:
	Behavioral Effects.
	- Pesticide Ecotoxicity Database (Formerly: Environmental Effects Database
	(EEDB)), Office of Pesticide Programs, 2000
	LC50, Brine Shrimp (Artemia sp.), nauplii, 361230. UG/L, 48 H, Mortality, Water temperature: 27.00 C C. Result:
	Behavioral Effects.
	- Comparative Toxicity of Four Insecticides, Including Imidacloprid and
	Tebufenozide, to Four Aquatic Arthropods, Song, M.Y., J.D. Stark, and J.J. Brown, 1997
	CAS# 82657-04-3:
	LC50, Rainbow Trout (Oncorhynchus mykiss), 0.150 PPB, 96 H, Mortality. Result: Rebayieral Effects
	Behavioral Effects Pesticide Ecotoxicity Database (Formerly: Environmental Effects Database
	(EEDB)), Office of Pesticide Programs, 2000
	LC50, Dragonfly Order (Odonata), nymph(s), 1.100 UG/L, 24 H, Mortality, Water temperature: 20.00 C C.
	Result:
	Violent muscle convulsions followed by death.
	Violent muscle convulsions followed by death.
	- Comparative Toxicity of Pyrethroid Insecticides to Terrestrial and Aquatic Insects, Siegfried, B.D., 1993
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:	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. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
	RCRA P-Series: None listed. RCRA U-Series: None listed.
	Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.



	14. Trans	port Inforn	nation		
Globally Harmonized System of Cla					
Acute Toxicity: Oral, Category Acute Toxicity: Skin, Category	4 - Warning! Har 5 - Warning! Ma	rmful if swallow y be harmful in			
Carcinogenicity, Category 1A - LAND TRANSPORT (US DOT)	Danger! May cat	use cancer			
DOT Proper Shipping Name:	Not Regulated				
LAND TRANSPORT (Canadian TDG	-				
TDG Shipping Name	Not Regulated	Not Regulated.			
MARINE TRANSPORT (IMDG/IMO)					
IMDG/IMO Shipping Name	Environmental	ly Hazardous S	ubstance, solid, n.	o.s. (Bifenthrin Mix	kture)
UN Number:	3077				
Hazard Class:	9 - CLASS 9				
Packing Group:	Ш				
Marine Pollutant:	Yes				
	15. Regula	atory Inform	nation		
US EPA SARA Title III					
Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Limestone	1317-65-3	No	No	No	No
2. Urea	57-13-6		No	No	No
3. Quartz	14808-60-7		No	No	No
<ol> <li>Sulfur</li> <li>Imidacloprid</li> </ol>	7704-34-9 138261-41-3	No	No No	No No	No No
6. Bifenthrin	82657-04-3		No	Yes	No
US EPA CAA, CWA, TSCA	02001 01 0				
Hazardous Components (Chemical Name)	CAS #	ΕΡΑ CAA	EPA CWA NPDES	EPA TSCA	CA PROP 65
1. Limestone	1317-65-3	No	No	Inventory	No
2. Urea	57-13-6		No	Inventory, 8A CAIR	No
3. Quartz	14808-60-7		No	Inventory	No
4. Sulfur	7704-34-9 138261-41-3		No No	Inventory No	No No
<ol> <li>Imidacloprid</li> <li>Bifenthrin</li> </ol>	82657-04-3		No	No	No
EPA Hazard Categories:	This material r		Hazard Categories		
	[X] Yes [ ] No	Acute (immed	diate) Health Hazaı	ď	
			yed) Health Hazar		
	[ ] Yes [X] No				
			ase of Pressure Ha	azard	
		Reactive Haz			
Regulatory Information:	This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels on non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.				
	CAUTION. KE	EP OUT OF RE	ACH OF CHILDR	EN.	

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Revision Date:	<b>16. Other Information</b> 06/20/2013 icable, N.D.=Not determined, N.E.=Not established, N.R.=Not required
Revision Date:	
	cable, N.D.=Not determined, N.E.=Not established, N.R.=Not required
N.A.=Not available, N.P.=Not appli	