

TCS Growstar Talstar 0.069% + Fertilizer

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1 (800)633-8253

1 (330)558-0910

(0-0-7)1. Product and Company Identification 900386 Product Code: TCS Growstar Talstar 0.069% + Fertilizer (0-0-7) Product Name: **Company Name:** Turf Care Supply Corp. **Phone Number:** 50 Pearl Road 1 (330)558-0910 Suite 200 Brunswick, OH 44212 www.turfcaresupply.com Web site address: regaffairs@tcscusa.com **Email address:**

Synonyms:

Information:

Emergency Contact:

2. Hazards Identification

Skin Corrosion/Irritation, Category 2 Serious Eye Damage/Eye Irritation, Category 1 Specific Target Organ Toxicity (single exposure), Category 1 Specific Target Organ Toxicity (repeated exposure), Category 1 Aquatic Toxicity (Acute), Category 3 Aquatic Toxicity (Chronic), Category 3

PERS

Turf Care Supply Corp.

Fertilizer with Insecticide.



GHS Signal Word:	Danger
GHS Hazard Phrases:	Causes skin irritation.
	Causes serious eye damage.
	Causes damage to organs
	Causes damage to organs through prolonged or repeated exposure.
	Harmful to aquatic life.
	Harmful to aquatic life with long lasting effects.
GHS Precaution Phrases:	Obtain special instructions before use.
	Do not handle until all safety precautions have been read and understood. Do not breathe dust.
	Wash hands thoroughly after handling.
	Do not eat, drink or smoke when using this product.
	Wear appropriate personal protective equipment.
GHS Response Phrases:	IF ON SKIN: Wash with plenty of soap and water.
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	IF exposed: Call a POISON CENTER or doctor/physician.
	Get medical attention/advice if you feel unwell.
	If skin irritation occurs, get medical advice/attention.
	Take off contaminated clothing and wash before re-use.
GHS Storage and Disposal	Store in a secure location.
Phrases:	Dispose of contents/container to an appropriate disposal facility.



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Potential He (Acute and C		• ·	use permanent eye dam	ause dermatitis. Prolonged or age. Chronic exposure may cause
Inhalation:		properties of this substance	have not been fully inve	ndustrial handling. The toxicological estigated. May cause systemic ranes and upper respiratory tract.
Skin Contac	t:	May cause skin irritation. D industrial handling.	ust causes mechanical i	irritation. Low hazard for usual
Eye Contact	:	May cause eye irritation. Do	ust may cause mechanic	cal irritation.
Ingestion:			or normal industrial hand	stinal irritation with nausea, vomiting dling. The toxicological properties of y cause systemic effects.
	3.	Composition/Info	mation on Ingre	dients
CAS #	Hazardous Comp	onents (Chemical Name)	Concentration	
1317-65-3	Limestone		84.0 %	
7447-40-7	Potassium chloride)	11.2 %	
14808-60-7	Quartz		2.80 %	
82657-04-3	Bifenthrin		0.069 %	
		4. First Ai	d Measures	
Emergency a Procedures:	and First Aid			
In Case of In	halation:	Remove from exposure and respiration. If breathing is d		ediately. If not breathing, give artificial t medical aid.
In Case of S	kin Contact:	of water. Remove contamin	ated clothing and shoes	case of contact, flush skin with plenty s. Get medical aid if irritation develops i with soap and plenty of water.
In Case of E	ye Contact:	Flush eyes with plenty of wa lower eyelids. Do NOT allow		tes, occasionally lifting the upper and eep eyes closed.
In Case of In	gestion:		induce vomiting unless	nilk or water. Call a poison control directed to do so by medical onscious person.
Signs and S Exposure:	ymptoms Of	To the best of our knowledg not been thoroughly investi		al, and toxicological properties have
Note to Phys	sician:	Treat symptomatically and	supportively.	



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	5. Fire Fighting Measures
Flash Pt:	No data.
Explosive Limits:	LEL: No data. UEL: No data.
Autoignition Pt:	No data.
Suitable Extinguishing Media	: 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.
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:	Most of the components of this product are non-combustible. However, a portion of them may support combustion at elevated temperatures.
Hazardous Combustion Products:	Thermal decomposition may result in the production of ammonia, formaldehyde, biuret, chlorine, cyanic acid, and cyanide, and oxides of carbon, nitrogen, phosphorus, potassium, sulfur, and chlorine, and oxides of alkaline earth metals, and certain heavier metals used as nutrients in fertilizer products, such as copper, iron, manganese, and zinc, and other toxic and irritating fumes and gases.
	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 product 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.
	7. Handling 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.
	GHS format



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Precautions To Be Taken in Store in a cool, dry place. Keep container closed when not in use. **Storing:**

	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits
1317-65-3	Limestone		PEL: 15 (dust); 5 (resp.) mg/m3	No data.	No data.
7447-40-7	Potassium chloric	le	No data.	No data.	No data.
14808-60-7	Quartz		PEL: 50 ug/m3	TLV: 0.05 mg/m3 (R)	No data.
82657-04-3	Bifenthrin		No data.	No data.	No data.
Respiratory (Specify Typ		requirements of conditions warra desired, use typ	otection program that meets European Standard EN 149 ant respirator use. Where pr be N95 (US) or type P1 (EN G/P99 (US) or type ABEK-P2	9 must be followed whene otection from nuisance le 143) dust masks. For hig	ever workplace vels of dusts are her level protection
Eye Protection	on:		te protective eyeglasses or d face protection regulations		•
Protective G	loves:	Wear appropria	te protective gloves to preve	ent skin exposure. Wash a	and dry hands.
Other Protec	tive Clothing:		te protective clothing to preve amount and concentration	•	
Engineering (Ventilation o		a safety shower	g or utilizing this material sho . Use adequate ventilation t ral or local exhaust ventilation osure limits.	o keep airborne concentr	ations low. Use
Work/Hygien Practices:	ic/Maintenance		dance with good industrial h nd at the end of workday. W		
		9. Physic	al and Chemical Pr	roperties	
Physical Sta	tes:	[]Gas []	Liquid [X] Solid		
Appearance	and Odor:	Multi-colored, g Characteristic p	ranular solid. esticide solvent odor.		
pH:		No data.			
Melting Poin		~ 133 C			
Boiling Point	t:	No data.			
Flash Pt:		No data.			
Evaporation		No data.			
•		No data availab	-	NI- Jata	
Flammability		LEL: No data.	UEL:	No data.	
Flammability Explosive Li		No data			
Flammability Explosive Li	mits: ure (vs. Air or	No data.			



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Specific Gravity (Water = 1):	No data.	
Bulk density:	~ 45 - 65 LB/CF	
Solubility in Water:	~ 1,080 g/L at 20.0 C	
Solubility Notes:	The solubility value cited is for the urea component o section 3.	of this product, if present. See
Octanol/Water Partition	No data.	
Coefficient:		
Autoignition Pt:	No data.	
Decomposition Temperature	: ~ 135 C	
Viscosity:	No data.	
Additional Physical	The melting point and decomposition temperatures c	ited are for the urea component of
Information	this product, if present. See section 3.	
	Urea decomposes before boiling. (UNEP Publication	n, OECD SIDS UREA, CAS No:
	57-13-6)	
	10. Stability and Reactivity	
Stability:	Unstable [] Stable [X]	
Conditions To Avoid - Instability:	Incompatible materials, dust generation, heating to d	ecomposition. High temperatures.
Incompatibility - Materials To Avoid:	Strong oxidizing agents, bases, acids, aluminum.	
Hazardous Decomposition o Byproducts:	r The decomposition of fertilizer products may result in following: ammonia, formaldehyde, biuret, chlorine, c of carbon, nitrogen, phosphorus, potassium, sulfur, a earth metals, and certain heavier metals used as nut copper, iron, manganese, and zinc, and other irritatin	cyanic acid, and cyanide, and oxides and chlorine, and oxides of alkaline rients in fertilizer products, such as
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]	
Conditions To Avoid - Hazardous Reactions:	No data available.	
	11. Toxicological Information	
Toxicological Information:	Epidemiology: No information found. Teratogenicity: Teratogenic effects have occurred in Neurotoxic effects have occurred in experimental ani Reproductive toxicity - no data available. Inhalation: May cause damage to organs through pro	imals.
	CAS# 7447-40-7: Potassium chloride: Acute toxicity, LD50, Oral, Rat, 2600. MG/KG; "Sborn Vysetreni Latek A Pripravku,", Institut Pro Vychovu V Pro Vychovu Vedoucicn, Pracovniku Chemickeho, Pr Vol/p/yr: -,8, 1972	Vedoucicn P, Marhold, J.V., Institut
	Standard Draize Test, Eyes, Species: Rabbit, 500.0 Toxixologickeho Vysetreni Latek A Pripravku,", Instit Marhold, J.V., Institut Pro Vychovu Vedoucicn, Praco Czechoslovakia, Vol/p/yr: -,8, 1972	tut Pro Vychovu Vedoucicn P,
	CAS# 82657-04-3: Bifenthrin:	

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Acute toxicity, LD50, Oral, Rat, 54500. UG/KG; 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; Pesticide Manual., The British Crop Protection Council, 20 Bridport Rd., Thornton Heath CR4 7QG UK, Vol/p/yr: 9,73, 1991

Carcinogenicity/Other This material may contain small amounts of respirable crystalline and amorphous silica. Information: The International Agency for Cancer Research (IARC) has classified crystalline silica as a carcinogen to humans (Group 1), and amorphous silica as not classifiable as to its carcinogenicity to humans (Group 3). See "Silica, Some Silicates, Coal dust and para-Aramid Fibrils in IARC Monographs on the Evaluation of Carcinogenic Risks to Humans", (Vol. 68).

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
1317-65-3	Limestone	n.a.	n.a.	n.a.	n.a.
7447-40-7	Potassium chloride	n.a.	n.a.	n.a.	n.a.
14808-60-7	Quartz	Known	1	A2	n.a.
82657-04-3	Bifenthrin	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

General Ecological Environmental: If released to the atmosphere, urea will degrade rapidly in the Information: 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. CAS# 7447-40-7: Potassium chloride:

LC50, Rainbow Trout (Oncorhynchus mykiss), 1610000. UG/L, 48 H, Mortality, Water temperature: 17.0 C C, pH: 7.70, Hardness: 40.00 MG/L; Toxicity of Candidate Molluscicides to Zebra Mussels (Dreissena polymorpha) and Selected Nontarget Organisms, Waller, D.L., J.J. Rach, W.G. Cope, L.L. Marking, S.W. Fisher, and H. Dabrowska, 1993

CAS# 82657-04-3: Bifenthrin: LC50, Rainbow Trout (Oncorhynchus mykiss), 0.150 PPB, 96 H, Mortality; Pesticide Ecotoxicity Database (Formerly: Environmental Effects Database (EEDB)), Office of Pesticide Programs, 2000 Persistence and No data available. Degradability: Bioaccumulative Potential: Bifenthrin: Log (Kow) = 6.4 (Thurston County Health Dept. - 412 Lilly Road NE -Olympia, WA 98506) No data available.

Mobility in Soil:



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		13. Dis	sposal C	onsideratio	ns	
Waste Dispo	sal Method:	and contents acc	cording to thi	s section.	-	ons, dispose of containe se of this material.
		Do not let produc	ct enter drair	IS.		
		as a hazardous v in 40 CFR Parts	waste. US El 261. Additio	PA guidelines for nally, waste gene	the classification	ed chemical is classified determination are listed ult state and local classification.
		RCRA P-Series: RCRA U-Series:				
		Observe all fede	ral, state, an	d local environme	ental regulations.	
		Packaging: Emp	oty bag may	be placed in trasl	۱.	
		<u>14. T</u>	ranspor	t Informatio	n	
	SPORT (US DOT					
DOT Haza UN/NA Ni	ard Class: umber:					
UN/NA Nu EPA SARA (Se	umber: uperfund Amendn	nents and Reautho	rization Act o	-	on	
UN/NA Ni EPA SARA (Se	umber: uperfund Amendn		rization Act o		S. 304 RQ No	S. 313 (TRI) No
UN/NA N EPA SARA (S CAS #	umber: uperfund Amendn Hazardous Com	nents and Reautho ponents (Chemica	rization Act o	of 1986) Lists S. 302 (EHS)	S. 304 RQ	
UN/NA N EPA SARA (S CAS # 1317-65-3	umber: uperfund Amendn Hazardous Com Limestone	nents and Reautho ponents (Chemica	rization Act o	of 1986) Lists S. 302 (EHS) No	S. 304 RQ No	No
UN/NA No EPA SARA (So CAS # 1317-65-3 7447-40-7	umber: uperfund Amendn Hazardous Com Limestone Potassium chlorid	nents and Reautho ponents (Chemica	rization Act o	of 1986) Lists S. 302 (EHS) No No	S. 304 RQ No No	No
UN/NA No EPA SARA (Se CAS # 1317-65-3 7447-40-7 14808-60-7 82657-04-3 This material Hazard Cates for SARA Titl	umber: uperfund Amendn Hazardous Com Limestone Potassium chlorid Quartz Bifenthrin I meets the EPA gories' defined le III Sections	nents and Reautho ponents (Chemica de [X] Yes [] No [X] Yes [] No	rization Act o I Name) Acute (immo Chronic (de Fire Hazard	of 1986) Lists S. 302 (EHS) No No No ediate) Health Ha layed) Health Ha	S. 304 RQ No No No No zard zard	No No No
UN/NA No EPA SARA (Se CAS # 1317-65-3 7447-40-7 14808-60-7 82657-04-3 This material Hazard Cate	umber: uperfund Amendn Hazardous Com Limestone Potassium chlorid Quartz Bifenthrin I meets the EPA gories' defined le III Sections adicated:	hents and Reautho ponents (Chemica de [X] Yes [] No [X] Yes [] No [] Yes [X] No [] Yes [X] No	rization Act of I Name) Acute (imme Chronic (de Fire Hazard Sudden Rel Reactive Ha	of 1986) Lists S. 302 (EHS) No No No ediate) Health Ha layed) Health Ha	S. 304 RQ No No No zard zard Hazard	No No No
UN/NA No EPA SARA (Se CAS # 1317-65-3 7447-40-7 14808-60-7 82657-04-3 This material Hazard Cates for SARA Titl 311/312 as in	umber: uperfund Amendn Hazardous Com Limestone Potassium chlorid Quartz Bifenthrin I meets the EPA gories' defined le III Sections adicated:	hents and Reautho ponents (Chemica de [X] Yes [] No [X] Yes [] No [] Yes [X] No [] Yes [X] No [] Yes [X] No [] Yes [X] No	rization Act of I Name) Acute (imme Chronic (de Fire Hazard Sudden Rel Reactive Ha	of 1986) Lists S. 302 (EHS) No No No No ediate) Health Ha layed) Health Ha ease of Pressure azard Other US EPA o CAA HAP,ODC: Inventory; CA P	S. 304 RQ No No No Zard zard Hazard Hazard r State Lists No; CWA NPDES: ROP.65: No; MA C	No No Yes
UN/NA No EPA SARA (Se CAS # 1317-65-3 7447-40-7 14808-60-7 82657-04-3 This material Hazard Cate for SARA Titl 311/312 as in CAS #	umber: uperfund Amendn Hazardous Com Limestone Potassium chlorid Quartz Bifenthrin I meets the EPA gories' defined le III Sections adicated: Hazardous Com	nents and Reautho ponents (Chemica de [X] Yes [] No [X] Yes [] No [] Yes [X] No [] Yes [X] No [] Yes [X] No [] Yes [X] No	rization Act of I Name) Acute (imme Chronic (de Fire Hazard Sudden Rel Reactive Ha	of 1986) Lists S. 302 (EHS) No No No No ediate) Health Ha layed) Health Ha ease of Pressure azard Other US EPA o CAA HAP,ODC: Inventory; CA P Part 5: No; NJ E CAA HAP,ODC: Inventory; CA P	S. 304 RQ No No No No zard zard Hazard Hazard Mo; CWA NPDES: ROP.65: No; MA C HS: No; NY Part 5 No; CWA NPDES: ROP.65: No; MA C	No No No Yes No; TSCA: Yes - Dil/HazMat: No; MI CMR, 97: No; PA HSL: Yes - 1
UN/NA Na EPA SARA (Se CAS # 1317-65-3 7447-40-7 14808-60-7 82657-04-3 This material Hazard Cates for SARA Titl 311/312 as in CAS # 1317-65-3	umber: uperfund Amendn Hazardous Com Limestone Potassium chlorid Quartz Bifenthrin I meets the EPA gories' defined le III Sections adicated: Hazardous Com Limestone	nents and Reautho ponents (Chemica de [X] Yes [] No [X] Yes [] No [] Yes [X] No [] Yes [X] No [] Yes [X] No [] Yes [X] No	rization Act of I Name) Acute (imme Chronic (de Fire Hazard Sudden Rel Reactive Ha	of 1986) Lists S. 302 (EHS) No No No No ediate) Health Ha layed) Health Ha layed) Health Ha ease of Pressure azard Other US EPA o CAA HAP,ODC: Inventory; CA P Part 5: No; NJ E CAA HAP,ODC: Inventory; CA P Part 5: No; NJ E CAA HAP,ODC: Inventory; CA P	S. 304 RQ No No No No Zard zard Hazard Hazard Mo; CWA NPDES: ROP.65: No; MA C HS: No; NY Part 5 No; CWA NPDES: ROP.65: No; MA C HS: No; NY Part 5 No; CWA NPDES: ROP.65: No; MA C	No No No Yes No; TSCA: Yes - Dil/HazMat: No; MI CMR, 97: No; PA HSL: Yes - 1 No; TSCA: Yes - Dil/HazMat: No; MI CMR, 97: No; PA HSL: No



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(0-0-7)**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. KEEP OUT OF REACH OF CHILDREN CAUTION PRECAUTIONARY STATEMENTS Hazards to Humans (and Domestic Animals) Caution Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. **16. Other Information Revision Date:** 10/21/2016 Flammability Instability Hazard Rating System: Health NFPA: Special Hazard Additional Information About No data available. This Product: Disclaimer and Limitation of Liability: This data sheet was developed from information on **Company Policy or** Disclaimer: the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and Turf Care Supply Corp. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purposes.