# SAFETY DATA SHEET TCS GROWSTAR DIMENSION 0.17% +

**FERTILIZER (14-0-14)** 

1. Product and Company Identification

**Product Code:** 905474

**Product Name:** TCS GROWSTAR DIMENSION 0.17% + FERTILIZER (14-0-14) Turf Care Supply LLC **Company Name: Phone Number:** 

> 50 Pearl Road 1 (330)558-0910

Suite 200

Brunswick, OH 44212 www.turfcaresupply.com

Web site address: **Email address:** regaffairs@tcscusa.com

**PERS Emergency Contact:** 1 (800)633-8253

Information: Turf Care Supply LLC 1 (330)558-0910

Synonyms: Fertilizer with pre-emergent herbicide

### 2. Hazards Identification

Acute Toxicity: Oral, Category 4 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** 







**GHS Signal Word:** Danger

**GHS Hazard Phrases:** Harmful if swallowed.

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 Precautionary 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.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse GHS Response Phrases:

mouth.

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. 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. Page: 1

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Chronic: Prolonged or repeated skin contact may cause dermatitis. Prolonged or Potential Health Effects

(Acute and Chronic): repeated exposure may cause permanent eye damage. Chronic exposure may cause

lung damage. Effects may be delayed.

May be harmful if inhaled. Low hazard for normal industrial handling. The toxicological Inhalation:

> properties of this substance have not been fully investigated. May cause systemic effects. Material may be irritating to mucous membranes and upper respiratory tract.

May cause skin irritation. Dust causes mechanical irritation. Low hazard for usual Skin Contact:

industrial handling.

Eye Contact: May cause eye irritation. Dust may cause mechanical irritation.

May be harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting Ingestion:

and diarrhea. Low hazard for normal industrial handling. The toxicological properties of

this substance have not been fully investigated. May cause systemic effects.

## 3. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	Concentration
Limestone	39.4 %
Urea	29.6 %
Potassium sulfate	28.0 %
Quartz	0.303 %
Dithiopyr	0.168 %
	Limestone Urea Potassium sulfate Quartz

#### 4. First Aid Measures

**Emergency and First Aid** 

**Procedures:** 

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.

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and In Case of Eye Contact:

lower eyelids. Get medical aid. Do NOT allow victim to rub eyes or keep eyes closed.

In Case of Ingestion: Get medical aid. 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.

Signs and Symptoms Of

Exposure:

To the best of our knowledge, the chemical, physical, and toxicological properties have

not been thoroughly investigated.

Treat symptomatically and supportively. Note to Physician:

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### 5. Fire Fighting Measures

Flash Point: 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:

**Products:** 

Most of the components of this product are non-combustible. However, a portion of them

may support combustion at elevated temperatures.

Hazardous Combustion 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:

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Storing:						
	8.	Exposure	Controls/Persona	I Protection		
CAS#	Partial Chemical	<u> </u>	OSHA TWA	ACGIH TWA	Other Limits	
1317-65-3	Limestone		PEL: 15 (dust); 5 (resp.) mg/m3	No data.	No data.	
57-13-6	Urea		No data.	No data.	No data.	
7778-80-5	Potassium sulfate		No data.	No data.	No data.	
14808-60-7	Quartz		PEL: 50 ug/m3	No data.	No data.	
97886-45-8	Dithiopyr		No data.	No data.	No data.	
Recommend Limits:	ded Exposure	•	receding chart, the exposi which includes quartz, cri	·	•	
Respiratory (Specify Typ Eye Protecti	oe):	requirements or I conditions warrandesired, use type use type OV/AG/Wear appropriate	tection program that meet European Standard EN 14 nt respirator use. Where p N95 (US) or type P1 (EN P99 (US) or type ABEK-P protective eyeglasses or face protection regulation	19 must be followed w rotection from nuisand 1 143) dust masks. Fol 2 (EU EN 143) respira chemical safety gogg	henever workplace ce levels of dusts are r higher level protection ator cartridges. lles as described by	
Protective G	loves:	Wear appropriate protective gloves to prevent skin exposure. Wash and dry hands.				
	ctive Clothing:	according to the place.	e protective clothing to pre amount and concentration	of the dangerous sub	ostance at the work	
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:		Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Wash thoroughly after handling.				
		9. Physica	l and Chemical P	roperties		
Physical Sta	ites:	[ ] Gas [ ] L	iquid [X] Solid			
Appearance	and Odor:	Multi-colored, gra Characteristic pe	anular solid. sticide solvent odor.			
pH:		No data.				
Melting Point:		~ 133 C				
Boiling Point:		No data.				
Flash Point:		No data.				
Evaporation Rate:		No data.				
•	y (solid, gas):	No data available	<b>2</b> .			
Explosive Li		LEL: No data.	UEL: No data			
Vapor Pressure:		No data.				
-		No data.				
vapor Derisi	ity (vs. Air=1):	INO uala.				

Specific Gravity (Water=1):

No data.

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~ 45 - 65 LB/CF **Bulk density:** 

Solubility in Water: ~ 1,080 g/L at 20.0 C

**Solubility Notes:** The solubility value cited is for the urea component of this product, if present. See

section 3.

Saturated Vapor

No data.

Concentration:

Octanol/Water Partition

No data.

Coefficient:

**Autoignition Pt:** No data. Decomposition ~ 135 C

Temperature:

Viscosity: No data.

**Additional Physical** 

Information:

The melting point and decomposition temperatures cited are for the urea component of

this product, if present. See section 3.

Urea decomposes before boiling. (UNEP Publication, OECD SIDS UREA, CAS No:

57-13-6)

Information with regard to primary physical hazard:

## 10. Stability and Reactivity

Stable [X] Unstable [ ] Stability:

**Conditions To Avoid -**

Instability:

Incompatible materials, dust generation, heating to decomposition. High temperatures.

Incompatibility - Materials To Strong oxidizing agents, bases, acids, aluminum.

Byproducts:

Hazardous Decomposition or The decomposition of fertilizer products may result in the generation of some or all of the following: 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 irritating and toxic fumes and gases.

Possibility of Hazardous

Reactions:

Will occur [ ] Will not occur [X]

Conditions To Avoid -Hazardous Reactions:

No data available.

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# 11. Toxicological Information

**Toxicological Information:** Epidemiology: No information found.

Teratogenicity: Teratogenic effects have occurred in experimental animals.

Neurotoxic effects have occurred in experimental animals.

Reproductive toxicity - no data available.

Inhalation: May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity/Other Information:

This material may contain small amounts of respirable crystalline and amorphous silica. 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.
57-13-6	Urea	n.a.	n.a.	n.a.	n.a.
7778-80-5	Potassium sulfate	n.a.	n.a.	n.a.	n.a.
14808-60-7	Quartz	Known	1	Yes	n.a.
97886-45-8	Dithiopyr	n.a.	n.a.	n.a.	n.a.

### 12. Ecological Information

General Ecological Information:

Environmental: 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 of variables (such as increasing the pellet size of the fertilizer) can decrease the degradation rate.

Urea will dissolve and disperse in water, and will promote algae growth which may degrade water quality and taste. Notify downstream water users of any release that

may affect water quality. Do not empty into drains.

Persistence and

Dithiopyr: Terrestrial Field Test Half-life: 25 days

**Degradability:** (Thurston County Health Dept. - 412 Lilly Road NE, Olympia WA, 98506, Pesticide

Review, dithiopyr, 6/11/2009)

**Bioaccumulative Potential:** Dithiopyr: Log (Kow) = 4.75

(Thurston County Health Dept. - 412 Lilly Road NE, Olympia WA, 98506, Pesticide

Review, dithiopyr, 6/11/2009)

Mobility in Soil: Dithiopyr: Solubility in Water: 1.38 mg/L

(Thurston County Health Dept. - 412 Lilly Road NE, Olympia WA, 98506, Pesticide

Review, dithiopyr, 6/11/2009)

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## 13. Disposal Considerations

#### Waste Disposal Method:

If material cannot be completely used according to label directions, dispose of container and contents according to this section.

Contact a licensed professional waste disposal service to dispose of this material.

Do not empty into drains.

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.

Packaging: Empty bag may be placed in trash.

# 14. Transport Information

#### LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Not Regulated.

DOT Hazard Class: UN/NA Number:

# 15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists	
LFA SANA (Superium Amenuments and Neadthonzation Act of 1300) Lists	

CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
1317-65-3	Limestone	No	No	No
57-13-6	Urea	No	No	No
7778-80-5	Potassium sulfate	No	No	No
14808-60-7	Quartz	No	No	No
97886-45-8	Dithiopyr	No	No	No

#### This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

[ ] Yes [X] No	Explosive	[X] Yes [ ] No	Acute toxicity (any route of exposure)
[ ] Yes [X] No	Flammable (gases, aerosols, liquid, or solid)	[X] Yes [ ] No	Skin Corrosion or Irritation
[ ] Yes [X] No	Oxidizer (liquid, solid or gas)	[X] Yes [ ] No	Serious eye damage or eye irritation
[ ] Yes [X] No	Self-reactive	[ ] Yes [X] No	Respiratory or Skin Sensitization
[ ] Yes [X] No	Pyrophoric (liquid or solid)	[ ] Yes [X] No	Germ cell mutagenicity
[ ] Yes [X] No	Pyrophoric gas	[ ] Yes [X] No	Carcinogenicity
[ ] Yes [X] No	Self-heating	[ ] Yes [X] No	Reproductive toxicity
[ ] Yes [X] No	Organic peroxide	[X] Yes [ ] No	Specific target organ toxicity (single or repeated exposure)
[ ] Yes [X] No	Corrosive to metal	[ ] Yes [X] No	Aspiration Hazard
[ ] Yes [X] No	Gas under pressure (compressed gas)	[ ] Yes [X] No	Simple Asphyxiant
[ ] Yes [X] No	In contact with water emits flammable gas	[X] Yes [ ] No	(Health) Hazard Not Otherwise Classified (HNOC)
[ ] Yes [X] No	Combustible Dust		
[ ] Yes [X] No	(Physical) Hazard Not Otherwise Classified (HNOC)		

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		` '
CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists
1317-65-3	Limestone	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -
		Inventory; CA PROP.65: No; MA Oil/HazMat: No; MI CMR,
		Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: Yes - 1
57-13-6	Urea	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -
		Inventory, 8A CAIR, 8C; CA PROP.65: No; MA Oil/HazMat:
		No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA
		HSL: No
7778-80-5	Potassium sulfate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -
		Inventory; CA PROP.65: No; MA Oil/HazMat: No; MI CMR,
		Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: No
14808-60-7	Quartz	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -
		Inventory; CA PROP.65: No; MA Oil/HazMat: No; MI CMR,
		Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: Yes - 1
97886-45-8	Dithiopyr	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA
		PROP.65: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ
		EHS: No; NY Part 597: No; PA HSL: No

#### **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.
CAUSES EYE IRRITATION. HARMFUL IF INHALED.

Avoid contact with eyes or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Prolonged or frequently repeated skin contact while handling this material may cause allergic reaction in some individuals.

ENVIRONMENTAL HAZARDS: This product is toxic to fish and highly toxic to other aquatic organisms including oysters and shrimp. Use with care when applying to turf areas adjacent to any body of water. Drift and runoff from treated turf may adversely affect aquatic organisms in adjacent aquatic sites. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwaters.

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### 16. Other Information

**Revision Date:** 02/28/2024

Hazard Rating System:

Health

NFPA: Special Hazard

Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

Disclaimer and Limitation of Liability: This data sheet was developed from information on 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 LLC 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.

GHS format