

1. Product and Company Identification				
Product Code: Product Name: Trade Name: Company Name: Web site address: Email address: Emergency Contact: Information: Synonyms:	902676 TurfGro Professional Fertilizer (16-0-8) Granular Fertilizer Turf Care Supply Corp. Phone Number: 50 Pearl Road 1 (330)558-0910 Suite 200 Brunswick, OH 44212 www.turfcaresupply.com regaffairs@tcscusa.com PERS 1 (800)633-8253 Turf Care Supply Corp. 1 (330)558-0910			
cynonyms.	Granular Fertilizer 2. Hazards Identificat	ion		
Acute Toxicity: Oral, Catego	bry 4			
GHS Signal Word: GHS Hazard Phrases:	Warning Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause repiratory irritation. May cause damage to respiratory system and lungs through prolonged or repeated exposure.			
GHS Precaution Phrases:	Avoid breathing dust. Wear protective gloves, protective clothing, and eye protection. Call a POISON CENTER or doctor/physician if you feel unwell.			
GHS Response Phrases:	If eye irritation persists, get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.			
GHS Storage and Disposal Phrases:	Store in a diked or contained area to prevent uncontrolled release to the environment. Store in a closed container. If material cannot be completely used according to label directions, dispose of container and contents according to section 13.			
Potential Health Effects (Acute and Chronic):	Chronic: Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated exposure may cause permanent eye damage. Chronic exposure may cause lung damage. Effects may be delayed.			
Inhalation:	May be harmful if inhaled. Low hazard for normal industrial handling. The toxicological properties of this substance have not been fully investigated. May cause systemic effects. Material may be irritating to mucous membranes and upper respiratory 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 r			
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.			



Supersedes Revision: 07/25/2016

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zinc, and other toxic and irritating fumes and gases.		Combustion	chlorine, cyanic acid, and potassium, sulfur, and chlo metals used as nutrients in	cyanide, and oxides of carbon, nitrogen, phosphorus, orine, and oxides of alkaline earth metals, and certain heavier n fertilizer products, such as copper, iron, manganese, and	



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	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 containe 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 are 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.
Precautions To Be Taken in Storing:	Store in a cool, dry place. Keep container 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.	No data.	No data.		
7447-40-7	Potassium chloride	No data.	No data.	No data.		
1309-37-1	Iron oxide (Fe2O3)	PEL: 10 mg/m3	TLV: 5 mg/m3 (dust & fume)	No data.		
1309-48-4	Magnesium oxide (MgO)	PEL: 15 (particulate) mg/m3	TLV: 10 mg/m3 (Inhalation)	No data.		
1344-43-0	Manganese oxide	CEIL: 5 mg/m3	TWA: 0.02 mg/m3 (resp.) 0.1 mg/m3 (IHL)	No data.		
14808-60-7	Quartz	PEL: 50 ug/m3	TLV: 0.05 mg/m3 (R)	No data.		
	57-13-6 7447-40-7 1309-37-1 1309-48-4 1344-43-0	CAS #Partial Chemical Name57-13-6Urea7447-40-7Potassium chloride1309-37-1Iron oxide (Fe2O3)1309-48-4Magnesium oxide (MgO)1344-43-0Manganese oxide	CAS #Partial Chemical NameOSHA TWA57-13-6UreaNo data.7447-40-7Potassium chlorideNo data.1309-37-1Iron oxide (Fe2O3)PEL: 10 mg/m31309-48-4Magnesium oxide (MgO)PEL: 15 (particulate) mg/m31344-43-0Manganese oxideCEIL: 5 mg/m3	CAS #Partial Chemical NameOSHA TWAACGIH TWA57-13-6UreaNo data.No data.7447-40-7Potassium chlorideNo data.No data.1309-37-1Iron oxide (Fe2O3)PEL: 10 mg/m3TLV: 5 mg/m3 (dust & fume)1309-48-4Magnesium oxide (MgO)PEL: 15 (particulate) mg/m3TLV: 10 mg/m3 (Inhalation)1344-43-0Manganese oxideCEIL: 5 mg/m3TWA: 0.02 mg/m3 (resp.) 0.1 mg/m3 (IHL)		

GHS format



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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		
Eye Protection:	use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. 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	Handle in accordance with good industrial hygiene and safety practice. Wash hands		
Practices:	before breaks and at the end of workday. Wash thoroughly after handling.		
	9. Physical and Chemical Properties		
Physical States:	[]Gas []Liquid [X]Solid		
Appearance and Odor:	Multi-colored, granular solid.		
	Slight ammonia-like odor.		
pH:	No data.		
Melting Point:	~ 133 C		
Boiling Point:	No data.		
Flash Pt:	No data.		
Evaporation Rate:	No data.		
Flammability (solid, gas):	No data available.		
Explosive Limits:	LEL: No data. UEL: No data.		
Vapor Pressure (vs. Air or mm Hg):	No data.		
Vapor Density (vs. Air = 1):	No data.		
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 of this product, if present. See section 3.		
Octanol/Water Partition Coefficient:	No data.		
Autoignition Pt:	No data.		
Decomposition Temperature:	: ~ 135 C		
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)		



	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 Byproducts:	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.
	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.
	CAS# 57-13-6: Urea: Other Studies:, TCLo, Inhalation, Rat, 288.0 MG/M3, 17 W; Gigiena Truda i Professional'nye Zabolevaniya.(Labor Hygiene and Occupational Disease), V/O Mezhdunarodnaya Kniga, Moscow 113095 Russia, Vol/p/yr: 30(3),43, 1986
	Acute toxicity, LD50, Oral, Rat, 8471. MG/KG; Gigiena i Sanitariya, Mezhdunarodnaya Kniga, ul. B. Yakimanka, 39, 113095, Moscow 113095 Russia, Vol/p/yr: 51(6),8, 1986
	Standard Draize Test, Skin, Human, 22.00 MG, 3 D; 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# 7447-40-7: Potassium chloride: Acute toxicity, LD50, Oral, Rat, 2600. MG/KG; "Sbornik Vysledku Toxixologickeho Vysetreni Latek A Pripravku," , Institut Pro Vychovu Vedoucicn P, Marhold, J.V., Institut Pro Vychovu Vedoucicn, Pracovniku Chemickeho, Prumyclu Praha Czechoslovakia, Vol/p/yr: -,8, 1972
	Standard Draize Test, Eyes, Species: Rabbit, 500.0 MG, 24 H; "Sbornik Vysledku Toxixologickeho Vysetreni Latek A Pripravku,", Institut Pro Vychovu Vedoucicn P, Marhold, J.V., Institut Pro Vychovu Vedoucicn, Pracovniku Chemickeho, Prumyclu Praha Czechoslovakia, Vol/p/yr: -,8, 1972
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
57-13-6	Urea	n.a.	n.a.	n.a.	n.a.
7447-40-7	Potassium chloride	n.a.	n.a.	n.a.	n.a.
1309-37-1	Iron oxide (Fe2O3)	n.a.	3	A4	n.a.
1309-48-4	Magnesium oxide (MgO)	n.a.	n.a.	A4	n.a.
1344-43-0	Manganese oxide	n.a.	n.a.	n.a.	n.a.
14808-60-7	Quartz	Known	1	A2	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 a variables (such as increasing the pellet size of the fertilizer) can decrease the degradation rate from days to weeks.
	Other: Do not empty into drains.
	Other: Estimated BCF value = 0.05. This value indicates that this product will exhibit low bioconcentration in aquatic organisms. Biodegradation is expected to be an important fate process in water. It has a low potential to affect aquatic systems. If diluted with water, this chemical released directly or indirectly into the environment is not expected to have a significant impact. CAS# 57-13-6: Urea: Lethal concentration to 0% of test organisms., Creek Chub (Semotilus atromaculatus), 16000000. UG/L, 24 H, Mortality, Water temperature: 15.0 C - 21.0 C C, pH: 8.30, Hardness: 98.00 MG/L; Appraisal of a Chemical Waste Problem by Fish Toxicity Tests, Gillette, L.A., D.L. Miller, and H.E. Redman, 1952
	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
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.



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Masta Diana						
Wasta Dianas			-	onsideratio		
Waste Disposal Method:		If material cannot be completely used according to label directions, dispose of container and contents according to this section.				
		Contact a license	d professio	nal waste disposa	I service to dispo	se of this material.
		Do not let product	t enter drai	ns.		
		•	aste. US E 261. Additic	PA guidelines for mally, waste gene	the classification rators must const	
		RCRA P-Series: N RCRA U-Series: N				
		Observe all federa	al, state, ar	nd local environme	ental regulations.	
		14. Tr	anspor	t Informatio	n	
DOT Prop DOT Haza UN/NA Nu	ard Class:	me: Not Regulated	<i>.</i>			
		15. Re	gulator	y Informatic	n	
EPA SARA (Su	perfund Amendr	nents and Reauthori	ization Act	of 1986) Lists		
CAS # 57-13-6	Hazardous Con Urea	nponents (Chemical	Name)	S. 302 (EHS) No	S. 304 RQ No	S. 313 (TRI) No
7447-40-7	Potassium chlori	de		No	No	No
1309-37-1	Iron oxide (Fe2C	03)		No	No	No
1309-48-4	Magnesium oxid	e (MgO)		No	No	No
1309-48-4 1344-43-0	Magnesium oxid Manganese oxid			No No	No No	No Yes-Cat. N450
	-					
1344-43-0 14808-60-7 This material	Manganese oxid Quartz meets the EPA gories' defined e III Sections	[X] Yes [] No [X] Yes [] No [] Yes [] No [] Yes [X] No [] Yes [X] No	Chronic (de Fire Hazaro	No No lediate) Health Ha elayed) Health Ha d lease of Pressure	No No zard zard	Yes-Cat. N450
1344-43-0 14808-60-7 This material Hazard Categ for SARA Title 311/312 as inc	Manganese oxid Quartz meets the EPA gories' defined e III Sections dicated:	[X] Yes [] No [X] Yes [] No [] Yes [] No [] Yes [X] No [] Yes [X] No	Chronic (de Fire Hazaro Sudden Re Reactive H	No No lediate) Health Ha elayed) Health Ha d lease of Pressure	No No zard zard Hazard	Yes-Cat. N450
1344-43-0 14808-60-7 This material Hazard Categ for SARA Title 311/312 as inc	Manganese oxid Quartz meets the EPA gories' defined e III Sections dicated:	[X] Yes [] No [X] Yes [] No [] Yes [] No [] Yes [X] No [] Yes [X] No [] Yes [X] No F	Chronic (de Fire Hazaro Sudden Re Reactive H	No No hediate) Health Ha elayed) Health Ha d lease of Pressure azard Other US EPA o CAA HAP,ODC: Inventory, 8A CA	No No zard zard Hazard State Lists No; CWA NPDES: JR; CA PROP.65:	Yes-Cat. N450 No
1344-43-0 14808-60-7 This material Hazard Categ for SARA Title 311/312 as inc CAS #	Manganese oxid Quartz meets the EPA gories' defined e III Sections dicated: Hazardous Con	[X] Yes [] No [X] Yes [] No [] Yes [] No [] Yes [X] No [] Yes [X] No [] Yes [X] No formation of the second s	Chronic (de Fire Hazaro Sudden Re Reactive H	No No No Hediate) Health Ha Elayed) Health Ha Elayed) Health Ha Hease of Pressure azard Other US EPA of CAA HAP,ODC: Inventory, 8A CA MI CMR, Part 5: No CAA HAP,ODC: Inventory; CA PI Part 5: No; NJ E	No No zard zard Hazard Mazard No; CWA NPDES: IR; CA PROP.65: I No; NJ EHS: No; I No; CWA NPDES: ROP.65: No; MA O HS: No; NY Part 5	Yes-Cat. N450 No No; TSCA: Yes - No; MA Oil/HazMat: No; NY Part 597: No; PA HSL: No; TSCA: Yes - il/HazMat: No; MI CMR, 97: No; PA HSL: No
1344-43-0 14808-60-7 This material Hazard Categ for SARA Title 311/312 as inc CAS # 57-13-6	Manganese oxid Quartz meets the EPA gories' defined e III Sections dicated: Hazardous Con Urea	[X] Yes [] No // [X] Yes [] No ([] Yes [X] No f [] Yes [X] No f [] Yes [X] No f nponents (Chemical	Chronic (de Fire Hazaro Sudden Re Reactive H	No No No Hediate) Health Ha Elayed) Health Ha Ilease of Pressure azard Other US EPA of CAA HAP,ODC: Inventory, 8A CA MI CMR, Part 5: No CAA HAP,ODC: Inventory; CA PI Part 5: No; NJ E CAA HAP,ODC: Inventory; CA PI Part 5: No; NJ E	No No zard zard Hazard Mo; CWA NPDES: IR; CA PROP.65: I No; NJ EHS: No; I No; CWA NPDES: ROP.65: No; MA O HS: No; NY Part 5 No; CWA NPDES: ROP.65: No; MA O	Yes-Cat. N450 No No No; TSCA: Yes - No; MA Oil/HazMat: No; NY Part 597: No; PA HSL: No; TSCA: Yes - il/HazMat: No; MI CMR, 97: No; PA HSL: No No; TSCA: Yes - il/HazMat: No; MI CMR, 97: No; PA HSL: Yes - 1



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		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
1344-43-0	Manganese oxide	CAA HAP,ODC: Yes - Cat.; CWA NPDES: No; TSCA: Yes -
		Inventory; CA PROP.65: No; MA Oil/HazMat: No; MI CMR,
		Part 5: Yes - Cat.; NJ EHS: Yes - Cat.; 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
	16.	Other Information
Revision Dat	t e: 11/04/2016	
Hazard Ratir	ng System:	Flammability
		Health

Additional Information About No data available.

This Product:

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Special Hazard

NFPA: