

GHS Storage and Disposal

Phrases:

SAFETY DATA SHEET Turf Fertilizer + 0.29% Prodiamine (18-0-3)

		Supersedes Revision: 07/08/2016
	1. Product and Company Iden	tification
Product Code: Product Name: Company Name:	901631 Turf Fertilizer + 0.29% Prodiamine (18-0-3) Turf Care Supply Corp. 50 Pearl Road Suite 200 Brunswick, OH 44212	Phone Number: 1 (330)558-0910
Web site address: Email address: Emergency Contact: Information:	www.turfcaresupply.com regaffairs@tcscusa.com PERS Turf Care Supply Corp.	1 (800)633-8253 1 (330)558-0910
Synonyms:	Fertilizer with Pre-Emergent Herbicide. 2. Hazards Identification	
Aquatic Toxicity (Acute), C Aquatic Toxicity (Chronic),		
\checkmark		
GHS Signal Word: GHS Hazard Phrases:	DangerCauses skin irritation.Causes serious eye damage.Suspected of causing genetic defects.May damage fertility or the unborn child .Causes damage to organsCauses damage to organs through prolongeHarmful to aquatic life.Harmful to aquatic life with long lasting effect	
GHS Precaution Phrases:	Obtain special instructions before use. Do not handle until all safety precautions ha Do not breathe dust. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this p Use personal protective equipment as requir	ve been read and understood. product.
GHS Response Phrases:	IF ON SKIN: Wash with plenty of soap and v IF IN EYES: Rinse cautiously with water for present and easy to do. Continue rinsing.	water.

IF exposed: Call a POISON CENTER or doctor/physician. IF exposed or concerned: Get medical attention/advice.

Dispose of contents/container to an appropriate disposal facility.

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.

Store in a secure location.

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Potential He	alth Effects	Chronic: Prolonged or rep	eated skin contact may cause dermatitis. Prolonged or			
(Acute and (Chronic):	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 toxico properties of this substance have not been fully investigated. May cause system effects. Material may be irritating to mucous membranes and upper respiratory to 						
Skin Contac	t:	May cause skin irritation. industrial handling.	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	. Composition/Info	ormation on Ingredients			
CAS #	Hazardous Com	ponents (Chemical Name)	Concentration			
1317-65-3	Limestone		51.0 %			
57-13-6	Urea		39.2 %			
7447-40-7	Potassium chlori	de	4.79 %			
14808-60-7	Quartz		1.70 %			
7704-34-9	Sulfur		1.50 %			
872-50-4	N-Methyl-2-pyrro	lidone	0.546 %			
29091-21-2	Prodiamine		0.290 %			
		4. First A	Aid Measures			
Emergency Procedures:	and First Aid					
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 E	ye Contact:		water for at least 15 minutes, occasionally lifting the upper and ow victim to rub eyes or keep eyes closed.			
In Case of Ir	ngestion:	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				

Signs and Symptoms Of Exposure:

personnel. Never give anything by mouth to an unconscious person. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Note to Physician: Treat symptomatically and supportively.



	5. Fire Fig	hting 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:	•	of this product are non-combustible. However, a portion of them at elevated temperatures.			
Hazardous Combustion Products:	chlorine, cyanic acid, an potassium, sulfur, and cl metals used as nutrients	may result in the production of ammonia, formaldehyde, biuret, d cyanide, and oxides of carbon, nitrogen, phosphorus, nlorine, and oxides of alkaline earth metals, and certain heavier in fertilizer products, such as copper, iron, manganese, and irritating fumes and gases.			
	6. Accidental	Release Measures			
Steps To Be Taken In Case Material Is Released Or Spilled:	Spills/Leaks: Vacuum of Avoid generating dusty and ditches which lead except as directed on pr in the Protective Equipm Personal precautions. Use personal protective adequate ventilation.	equipment. Avoid dust formation. Avoid breathing dust. Ensure			
	Do not let product enter Pick up and arrange dis for disposal.	posal without creating dust. Keep in suitable, closed containers			
		SONAL PRECAUTIONS. ecautions to minimize direct contact with skin or eyes and st.			
		g and hold for waste disposal. Avoid raising dust. Ventilate area material pickup is complete.			
	7. Handli	ng and Storage			
Precautions To Be Taken in Handling:	contact with eyes, skin, a	ation. Minimize dust generation and accumulation. Avoid and clothing. Avoid ingestion and inhalation. Wash thoroughly in a well-ventilated area. Keep container tightly closed. Wash			
	Provide appropriate exh	aust ventilation at places where dust is formed.			
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Precautions To Be Taken in Store in a cool, dry place. Keep container closed when not in use. **Storing:**

CAS #	Partial Chemical	Name	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.
7447-40-7	Potassium chloride		No data.	No data.	No data.
14808-60-7	Quartz		PEL: 50 ug/m3	TLV: 0.05 mg/m3 (R)	No data.
7704-34-9	Sulfur		No data.	No data.	No data.
872-50-4	N-Methyl-2-pyrrol	idone	No data.	No data.	No data.
29091-21-2	Prodiamine		No data.	No data.	No data.
Respiratory Specify Typ Eye Protecti	pe):	requirements of conditions war desired, use ty use type OV/A	rotection program that meets or European Standard EN 14 rant respirator use. Where pr pe N95 (US) or type P1 (EN G/P99 (US) or type ABEK-P2 ate protective eveglasses or	9 must be followed when rotection from nuisance le 143) dust masks. For hig 2 (EU EN 143) respirator	ever workplace evels of dusts are her level protectic 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 G	loves:		ate protective gloves to preve	ent skin exposure. Wash	and dry hands.
Other Protective Clothing: Wear appropriate protective			ate protective clothing to pre- e amount and concentration	vent skin exposure. Choo	se body protection
(Ventilation etc.): a safety sho adequate ge			g or utilizing this material sheer. I Use adequate ventilation teral or local exhaust ventilation teral or local exhaust ventilation terations and the second secon	to keep airborne concentr	ations low. Use
Work/Hygieı Practices:	nic/Maintenance	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. Physic	al and Chemical P	roperties	
Physical Sta	ates:] Liquid [X] Solid		
Appearance	and Odor:	Multi-colored, Characteristic	granular solid. pesticide solvent odor.		
pH:		No data.			
Melting Poir	nt:	~ 133 C			
Boiling Poin	t:	No data.			
Flash Pt:		No data.			
Evaporation	Rate:	No data.			
	y (solid, gas):	No data availa	ble.		
-	imits:	LEL: No data.	UEL:	No data.	
Explosive Li		N N N N			
Explosive Li	sure (vs. Air or	No data.			



Spacific Gravity (Mator - 4)	No data.
Specific Gravity (Water = 1):	\sim 1,080 g/L at 20.0 C
Solubility in Water: Solubility Notes:	The solubility value cited is for the urea component of this product, if present. See
Solubility Notes.	section 3.
Octanol/Water Partition Coefficient:	No data.
Autoignition Pt:	No data.
Decomposition Temperature:	
Viscosity:	No data.
Additional Physical	The melting point and decomposition temperatures cited are for the urea component of
Information	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:
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		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						
		Toxixologickeho Vysetreni Latek A Marhold, J.V., Institut Pro Vychovu	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					
		CAS# 7704-34-9: Sulfur: Acute toxicity, LC50, Inhalation, Species: unspecified., 1660. MG/M3; Gigiena Truda i Professional'nye Zabolevaniya.(Labor Hygiene and Occupational Disease), V/O Mezhdunarodnaya Kniga, Moscow 113095 Russia, Vol/p/yr: 34(12),8, 1990						
		Chemical Soc., Distribution Office	Standard Draize Test, Eyes, Human, 8.000 PPM; Analytical Chemistry., American Chemical Soc., Distribution Office Dept. 223, POB 57136, West End Stn., Washington, DC 20037, Vol/p/yr: 21,1411, 1949					
Carcinogenic Information:	city/Other	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 C	omponents (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.		
7447-40-7	Potassium chl	oride	n.a.	n.a.	n.a.	n.a.		
14808-60-7	Quartz		Known	1	A2	n.a.		
7704-34-9	Sulfur		n.a.	n.a.	n.a.	n.a.		
872-50-4	N-Methyl-2-py	rrolidone	n.a.	n.a.	n.a.	n.a.		
29091-21-2	Prodiamine		n.a.	n.a.	n.a.	n.a.		
		12. Ecological In	formation					
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.						
CAS# 57-13-6: Urea: Lethal concentration to 0% of test organisms., Creek Chub (Semotilus atromaculatu 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 Te Gillette, L.A., D.L. Miller, and H.E. Redman, 1952				H: 8.30,				



	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# 7704-34-9: Sulfur: LC50, Rainbow Trout (Oncorhynchus mykiss), 180.0 PPM, 96 H, Mortality; Pesticide Ecotoxicity Database (Formerly: Environmental Effects Database (EEDB)), Office of Pesticide Programs, 2000
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	Prodiamine: Log (Kow) = 4.1 (Thurston County Health Dept., 412 Lilly Road NE, Olympia, WA 98506)
Mobility in Soil:	No data available.
	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 let product enter 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 DO	Γ):
DOT Proper Shipping Na DOT Hazard Class:	ime: Not Regulated.
UN/NA Number:	
1	



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		15. Regi	ulatory Informat	ion		
EPA SARA (S	Superfund Amendr	nents and Reauthorizat	tion Act of 1986) Lists			
CAS #	Hazardous Con	ponents (Chemical Na	me) S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
1317-65-3	Limestone		No	No	No	
57-13-6	Urea		No	No	No	
7447-40-7	Potassium chlori	de	No	No	No	
14808-60-7	Quartz		No	No	No	
7704-34-9	Sulfur		No	No	No	
872-50-4	N-Methyl-2-pyrro	lidone	No	No	Yes	
29091-21-2	Prodiamine		No	No	No	
'Hazard Cate	egories' defined	[X] Yes [] No Chr [] Yes [X] No Fire [] Yes [X] No Suc	ute (immediate) Health I ronic (delayed) Health H e Hazard dden Release of Pressu active Hazard	lazard		
CAS #	Hazardous Con	ponents (Chemical Na	me) 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,		
57-13-6	Urea		CAA HAP,OD Inventory, 8A	Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: Yes - 1 CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8A CAIR; CA PROP.65: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: No		
7447-40-7	Potassium chlori	de	Inventory; CA	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,OD Inventory; CA	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		
7704-34-9	Sulfur		CAA HAP,OD Inventory; CA	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		
872-50-4 N-Methyl-2-pyrrolidone		CAA HAP,OD Inventory; CA MI CMR, Part	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: Yes: RDTox.; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: Yes - 3716; NY Part 597: No; PA HSL: Yes - 1			
29091-21-2	Prodiamine		CAA HAP,OD Inventory; CA	C: No; CWA NPDES PROP.65: No; MA C	: No; TSCA: Yes - Dil/HazMat: No; MI CMR, 997: No; PA HSL: No	
Regulatory I	nformation:	Protection Agency a law. These requiren required for safety d chemicals. The haz	nents differ from the cla ata sheets (SDS), and f ard information required	labeling requirements ssification criteria a for workplace labels on the pesticide labels	nts under federal pesticion nd hazard information	
		KEEP OUT OF REA CAUTION				
		See the following se	ction, Precautionary Sta	atements, Hazards	to Humans and Domest	
					GHS form	



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Animals, for additional information.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

This product has low solubility in water. At the limits of solubility, this product is not toxic to fish. However, at concentrations above the level of water solubility, it may be toxic to fish. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. 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.

16. Other Information

Revision Date:

Hazard Rating System:

Flammability Health

Special Hazard

NFPA:

Additional Information About No data available.

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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 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.