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1. Product and Company Identification

Product Code: 905702

Product Name: PRODM .37 00-00-07 2FE 50LB

Company Name:Turf Care Supply LLCPhone Number:50 Pearl Road1 (330)558-0910

Suite 200

Brunswick, OH 44212

Web site address: www.turfcaresupply.com
Email address: regaffairs@tcscusa.com

Emergency Contact: PERS 1 (800)633-8253

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

**Synonyms:** Fertilizer with Pre-Emergent Herbicide.

### 2. Hazards Identification

Skin Corrosion/Irritation, Category 2

Serious Eye Damage/Eye Irritation, Category 1

Germ Cell Mutagenicity, Category 2 Toxic To Reproduction, Category 1B

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: Causes skin irritation.

Causes serious eye damage.

Suspected of causing genetic defects. May damage fertility or the unborn child .

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. Use personal protective equipment as required.

**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. IF exposed or concerned: Get medical attention/advice.

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.

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**Phrases:** Dispose of contents/container to an appropriate disposal facility.

Potential Health Effects Chronic: Prolonged or repeated 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 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 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/Information on Ingredients

1317-65-3 Limestone 64.6 % 14977-37-8 Langbeinite (Mg2K2(SO4)3) 22.3 %	
14077.37.8. Langhainita (Ma2K2/SO4)3). 22.3.9/.	
14977-57-6 Languelinite (wigzrz(304)5) 22.3 76	
7447-40-7 Potassium chloride 3.33 %	
14808-60-7 Quartz 2.16 %	
1332-37-2 Iron oxide 2.00 %	
7720-78-7 Ferrous sulfate 2.00 %	
7647-14-5 Sodium chloride 1.50 %	
64742-65-0 Mineral Oil 0.400 %	
29091-21-2 Prodiamine 0.380 %	

## 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.

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

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

In Case of Ingestion: 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.

**Note to Physician:** Treat symptomatically and supportively.

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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.

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

8. Exposure Controls/Personal Protection						
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.	
14977-37-8	Langbeinite (Mg2l	K2(SO4)3)	No data.	No data.	No data.	
7447-40-7	Potassium chlorid	е	No data.	No data.	No data.	
14808-60-7	Quartz		PEL: 50 ug/m3	No data.	No data.	
1332-37-2	Iron oxide		No data.	No data.	No data.	
7720-78-7	Ferrous sulfate		No data.	No data.	No data.	
7647-14-5	Sodium chloride		No data.	No data.	No data.	
64742-65-0	Mineral Oil		No data.	No data.	No data.	
29091-21-2	Prodiamine		No data.	No data.	No data.	
Recommended Exposure Limits:		If shown in the preceding chart, the exposure limits for quartz are for respirable crystalline silica, which includes quartz, cristobalite, and/or tridymite forms.				
Respiratory Equipment (Specify Type):  Eye Protection:		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.  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 GI	loves:	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.				
		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. Physical and Chemical Properties						

#### Physical States: [ ] Gas [ ] Liquid [X] Solid Appearance and Odor: Multi-colored, granular solid. Characteristic pesticide solvent odor. pH: No data. Melting Point: ~ 133 C **Boiling Point:** No data. Flash Point: No data. Evaporation Rate: No data. Flammability (solid, gas): No data available.

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LEL: No data. UEL: No data. **Explosive Limits:** 

Vapor Pressure: No data.

Vapor Density (vs. Air=1): No data. Specific Gravity (Water=1): No data.

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

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

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

section 3.

Saturated Vapor

No data.

Concentration:

Octanol/Water Partition

Coefficient:

No data.

**Autoignition Pt:** Decomposition

No data. ~ 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)

# 10. Stability and Reactivity

Unstable [ ] Stable [X] Stability:

Conditions To Avoid -

Instability:

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

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

Avoid:

Hazardous Decomposition or The decomposition of fertilizer products may result in the generation of some or all of the

Byproducts:

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 -

No data available.

Hazardous Reactions:

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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.
14977-37-8	Langbeinite (Mg2K2(SO4)3)	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	Yes	n.a.
1332-37-2	Iron oxide	n.a.	n.a.	n.a.	n.a.
7720-78-7	Ferrous sulfate	n.a.	n.a.	n.a.	n.a.
7647-14-5	Sodium chloride	n.a.	n.a.	n.a.	n.a.
64742-65-0	Mineral Oil	n.a.	n.a.	n.a.	n.a.
29091-21-2	Prodiamine	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 Prodiamine:

Degradability: Terrestrial Field Test Half-life: 69 days

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

review, Prodiamine, 10/10/2014)

Prodiamine: Log (Kow) = 4.1 (Thurston County Health Dept., 412 Lilly Road NE, Bioaccumulative Potential:

Olympia, WA 98506, Pesticide Review, Prodiamine, 10/10/2014)

Prodiamine: Mobility in Soil:

Water Solubility: 0.013 mg/L

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

review, Prodiamine, 10/10/2014)

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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 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 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				
CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
1317-65-3	Limestone	No	No	No
14977-37-8	Langbeinite (Mg2K2(SO4)3)	No	No	No
7447-40-7	Potassium chloride	No	No	No
14808-60-7	Quartz	No	No	No
1332-37-2	Iron oxide	No	No	No
7720-78-7	Ferrous sulfate	No	Yes NA	No
7647-14-5	Sodium chloride	No	No	No
64742-65-0	Mineral Oil	No	No	No
29091-21-2	Prodiamine	No	No	No

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

[ ] Yes [X] No	Explosive	[ ] Yes [X] 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)	[X] Yes [ ] No	Germ cell mutagenicity
[ ] Yes [X] No	Pyrophoric gas	[ ] Yes [X] No	Carcinogenicity
[ ] Yes [X] No	Self-heating	[X] Yes [ ] 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
14977-37-8	Langbeinite (Mg2K2(SO4)3)	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
7447-40-7	Potassium chloride	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
1332-37-2	Iron oxide	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
7720-78-7	Ferrous sulfate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NJ EHS: No; NY Part 597: Yes: HS; PA HSL: Yes - E
7647-14-5	Sodium chloride	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
64742-65-0	Mineral Oil	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
29091-21-2	Prodiamine	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

### **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

See the following section, Precautionary Statements, Hazards to Humans and Domestic 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

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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

09/20/2024 **Revision Date:** 

**Hazard Rating System:** 



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.