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1. Product and Company Identification

905554 **Product Code:**

Product Name: 21-00-21M 70MU SOP 2FE

Turf Care Supply LLC **Company Name: Phone Number:** 1 (330)558-0910

50 Pearl Road

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

Granular Fertilizer Synonyms:

2. Hazards Identification

Skin Sensitization, Category 1B



Warning **GHS Signal Word:**

H317: May cause an allergic skin reaction. **GHS Hazard Phrases:**

GHS Precautionary Phrases: P261: Avoid breathing {dust/fume/gas/mist/vapors/spray}.

P272: Contaminated work clothing should not be allowed out of the workplace. P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

GHS Response Phrases: P302+352: IF ON SKIN: Wash with plenty of soap and water.

P321: Specific treatment {see ... on this label}.

P333+313: If skin irritation or rash occurs, seek medical advice/attention.

P363: Wash contaminated clothing before reuse.

GHS Storage and Disposal

Phrases:

Skin Contact:

P501: Dispose of contents/container to {...}.

Potential Health Effects

(Acute and Chronic):

Chronic: Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated exposure may cause permanent eye damage. Effects may be delayed. May cause skin irritation. Dust causes mechanical irritation. Low hazard for usual

industrial handling.

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

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

CAS#	Hazardous Components (Chemical Name)	Concentration
7778-80-5	Potassium sulfate	42.0 %
598-50-5	Methylurea	36.8 %
57-13-6	Urea	13.3 %
1317-65-3	Limestone	3.46 %
1309-37-1	Iron oxide (Fe2O3)	2.86 %
14808-60-7	Quartz	0.067 - 0.107 %

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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. 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.

Note to Physician: Treat symptomatically and supportively.

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:

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.

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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.

Precautions To Be Taken in

Store in a cool, dry place. Keep container closed when not in use.

Storin	g:		
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8. Exposure Controls/Personal Protection				
CAS#	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7778-80-5	Potassium sulfate	No data.	No data.	No data.
598-50-5	Methylurea	No data.	No data.	No data.
57-13-6	Urea	No data.	No data.	No data.
1317-65-3	Limestone	PEL: 15 (dust); 5 (resp.) mg/m3	No data.	No data.
1309-37-1	Iron oxide (Fe2O3)	PEL: 10 mg/m3	No data.	No data.
14808-60-7	Quartz	PEL: 50 ug/m3	No data.	No data.

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 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 Eye Protection:

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.

Wear appropriate protective clothing to prevent skin exposure. Choose body protection Other Protective Clothing:

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

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.

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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. ~ 133 C Melting Point: **Boiling Point:** No data. Flash Point: No data. **Evaporation Rate:** No data. Flammability (solid, gas): No data available. **Explosive Limits:** LEL: No data. UEL: No data. 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: ~ 1,079 G/L at 20.0 C The solubility cited is for the urea component of this product, if present. See section 3. Solubility Notes: Saturated Vapor No data. Concentration: Octanol/Water Partition No data. Coefficient: Autoignition Pt: No data. Decomposition ~ 135 C Temperature: Viscosity: No data. The melting point and decomposition temperatures cited are for the urea component of Additional Physical 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 -**Incompatible materials, dust generation, heating to decomposition. High temperatures. Instability: **Incompatibility - Materials To** Strong oxidizing agents, bases, acids, aluminum. 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 Will occur [] Will not occur [X]

Byproducts:

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Reactions:

Conditions To Avoid - No data available.

Hazardous Reactions:

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).

I	CAS#	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
I	7778-80-5	Potassium sulfate	n.a.	n.a.	n.a.	n.a.
I	598-50-5	Methylurea	n.a.	n.a.	n.a.	n.a.
I	57-13-6	Urea	n.a.	n.a.	n.a.	n.a.
I	1317-65-3	Limestone	n.a.	n.a.	n.a.	n.a.
I	1309-37-1	Iron oxide (Fe2O3)	n.a.	3	Unknown	n.a.
١	14808-60-7	Quartz	Known	1	Yes	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.

Do not empty into drains.

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.

Persistence and

Degradability:

No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

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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.

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)
7778-80-5	Potassium sulfate	No	No	No
598-50-5	Methylurea	No	No	No
57-13-6	Urea	No	No	No
1317-65-3	Limestone	No	No	No
1309-37-1	Iron oxide (Fe2O3)	No	No	No
14808-60-7	Quartz	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)	[] Yes [X] No	Skin Corrosion or Irritation
[] Yes [X] No	Oxidizer (liquid, solid or gas)	[] Yes [X] No	Serious eye damage or eye irritation
[] Yes [X] No	Self-reactive	[X] Yes [] 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	[] Yes [X] 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	[] Yes [X] No	(Health) Hazard Not Otherwise Classified (HNOC)
[] Yes [X] No	Combustible Dust		
[] Yes [X] No	(Physical) Hazard Not Otherwise Classified (HNOC)		

CAS# **Hazardous Components (Chemical Name)** Other US EPA or State Lists

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

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598-50-5	Methylurea	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
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
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
1309-37-1	Iron oxide (Fe2O3)	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
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
		1 dit 0.110, 110 E110.110, 111 1 dit 007.110, 171110E. 100-1

16. Other Information

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Hazard Rating System:



Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

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