

**1. Product and Company Identification**

**Product Code:** 904452  
**Product Name:** 12-00-00 (2X2.5GAL)  
**Trade Name:** Liquid Fertilizer  
**Company Name:** Turf Care Supply Corp.  
50 Pearl Road  
Suite 200  
Brunswick, OH 44212  
**Web site address:** www.turfcaresupply.com  
**Email address:** regaffairs@tcscusa.com  
**Emergency Contact:** PERS  
**Information:** Turf Care Supply Corp.  
**Synonyms:** Liquid Fertilizer.

**Phone Number:**  
1 (330)558-0910  
  
  
  
  
  
  
  
  
  
1 (800)633-8253  
  
1 (330)558-0910

**2. Hazards Identification**

**Acute Toxicity: Oral, Category 4**  
**Acute Toxicity: Skin, Category 5**



**GHS Signal Word:** **Warning**  
**GHS Hazard Phrases:** Harmful if swallowed.  
May be harmful in contact with skin.  
**GHS Precautionary Phrases:** Wash hands thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Do not handle until all safety precautions have been read and understood.  
Use personal protective equipment as required.  
**GHS Response Phrases:** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
Rinse mouth.  
IF exposed or concerned: Get medical attention/advice.  
**GHS Storage and Disposal Phrases:** Store in a diked or contained area to prevent uncontrolled release to the environment.  
**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. Adverse reproductive effects have been reported in animals.  
**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. Low hazard for usual industrial handling.  
**Eye Contact:** May cause eye 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

CAS #	Hazardous Components (Chemical Name)	Concentration
7782-63-0	Ferrous sulfate	20.0 - 80.0 %

### 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:** 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 Pt:** No data.

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

**Autoignition Pt:** No data.

**Suitable Extinguishing Media:** Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. 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:** No data available.

**Hazardous Combustion Products:** No data available.

### 6. Accidental Release Measures

**Protective Precautions, Protective Equipment and Emergency Procedures:** Splash proof safety goggles.

**Environmental Precautions:** Avoid release to the environment.  
Do not let product enter drains.

**Steps To Be Taken In Case Material Is Released Or Spilled:** Use proper personal protective equipment as indicated in Section 8.  
Spills/Leaks: 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.

### PROCEDURES & PERSONAL PRECAUTIONS.

Exercise appropriate caution to avoid contact with skin and eyes, and avoid breathing vapors, fumes, and mist.

Methods for cleaning up.  
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. 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.

**Precautions To Be Taken in Storing:** Keep container closed when not in use.

## 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7782-63-0	Ferrous sulfate	No data.	TWA: 1 mg/m3	No data.
<b>Respiratory Equipment (Specify Type):</b>		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. For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges.		
<b>Eye Protection:</b>		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.		
<b>Protective Gloves:</b>		Wear appropriate protective gloves to prevent skin exposure. Wash and dry hands.		
<b>Other Protective Clothing:</b>		Wear appropriate protective clothing to prevent skin exposure.		
<b>Engineering Controls (Ventilation etc.):</b>		Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.		
<b>Work/Hygienic/Maintenance Practices:</b>		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	[ X ] Liquid	[ ] Solid
Appearance and Odor:	Clear. colored.		
	Ammoniacal odor.		
pH:	6.0 - 7.0		
Melting Point:	No data.		
Boiling Point:	> 100 C		
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.		

<b>Vapor Density (vs. Air = 1):</b>	No data.
<b>Specific Gravity (Water = 1):</b>	1.1 - 1.4
<b>Density:</b>	10.500000 LB/GA
<b>Bulk density:</b>	No data.
<b>Solubility in Water:</b>	No data.
<b>Solubility Notes:</b>	Infinitely miscible with water.
<b>Saturated Vapor Concentration:</b>	No data.
<b>Octanol/Water Partition Coefficient:</b>	No data.
<b>Autoignition Pt:</b>	No data.
<b>Decomposition Temperature:</b>	No data.
<b>Viscosity:</b>	No data.

Information with regard to primary physical hazard:

## 10. Stability and Reactivity

<b>Reactivity:</b>	Stable. However, may decompose if heated.
<b>Stability:</b>	Unstable [ <input type="checkbox"/> ]    Stable [ <input checked="" type="checkbox"/> ]
<b>Conditions To Avoid - Instability:</b>	Incompatible materials, dust generation, heating to decomposition. High temperatures.
<b>Incompatibility - Materials To Avoid:</b>	Strong oxidizing agents, bases, acids, aluminum.
<b>Hazardous Decomposition or Byproducts:</b>	Carbon monoxide, oxides of nitrogen, Carbon dioxide, oxides of sulfur, nitrogen oxides (NOx) and ammonia (NH3). Nitrogen oxides, oxides of phosphorus, Ammonia, Oxides of potassium, Hydrogen chloride, chlorine, irritating and toxic fumes and gases.
<b>Possibility of Hazardous Reactions:</b>	Will occur [ <input type="checkbox"/> ]    Will not occur [ <input checked="" type="checkbox"/> ]
<b>Conditions To Avoid - Hazardous Reactions:</b>	No data available.

### 11. Toxicological Information

**Toxicological Information:**

Epidemiology: No information found.  
 Teratogenicity: No information available.  
 Tumorigenic effects have been reported in experimental animals.  
 Teratogenicity: Teratogenic effects have occurred in experimental animals.  
 Adverse reproductive 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:** Carcinogenicity

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
7782-63-0	Ferrous sulfate	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 Degradability:** No data available.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.

### 13. Disposal Considerations

**Waste Disposal Method:**

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

### 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)
7782-63-0	Ferrous sulfate	No	Yes NA	No

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

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

CAS #	Hazardous Components (Chemical Name)
7782-63-0	Ferrous sulfate

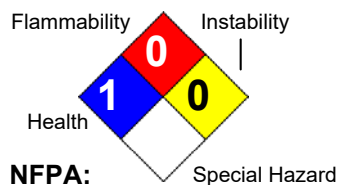
## Other US EPA or State Lists

CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; 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

## 16. Other Information

Revision Date: 06/08/2022

## Hazard Rating System:



Additional Information About No data available.

## This Product:

## Company Policy or

## Disclaimer:

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