

Material Safety Data Sheet
J. R. Simplot Company
AgriBusiness

Trade Name: Turf Gold® 22-5-6
Registration No: None

M74034

SECTION 1

CHEMICAL PRODUCT AND COMPANY INFORMATION

Manufacturer or Formulator: J.R. Simplot Company
P.O. Box 70013
Boise, ID 83707
Emergency Phone - Chemtrec: 1-800-424-9300

Product Name: Turf Gold® 22-5-6
Common Name: 22-5-6
Chemical Type: Inorganic Chemical Fertilizer

SECTION 2

COMPOSITION INFORMATION

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT% Hazardous	TLV	PEL
None listed					
This product is a blend of the following non-hazardous ingredients:			100%	10 mg/m ³ Nuisance Dust	15mg/m ³ Nuisance Dust
Ammonium Sulfate	7783-20-2	(NH ₄) ₂ SO ₄			
Mono-ammonium Phosphate	7722-76-1	NH ₄ H ₂ PO ₄			
Muriate of Potash	7447-40-7	KCl			
Iron Oxysulfate	NA	NA			
Manganese Oxysulfate	NA	NA		0.2 mg/m ³ (as Mn)	5 mg/m ³ (as Mn)
Urea	57-13-6	(NH ₂) ₂ CO			
Sulfur	7704-34-9	S			
Polyurethane Coating	NA	NA			
Wax	NA	NA			

SECTION 3

HAZARDS IDENTIFICATION

Ingestion: Minimal hazard under normal conditions and use. Ingestion of large quantities may cause gastrointestinal discomfort, vomiting, weakness or other medically related problems. Sulfur is not considered toxic by ingestion.
Inhalation: Dusty conditions may cause mechanical aggravation to respiratory mucous membranes.
Eye Contact: Dust from this product may cause particulate discomfort to eyes.
Skin Absorption: Not normally absorbed through the skin.
Skin Contact: Slight dermal abrasion is possible with prolonged contact, especially around cuffs and collars.
Effects of Overdose: Ingestion of large doses may cause diarrhea, nausea, abdominal cramps or formation of methemoglobinemia. Seek medical attention.

SECTION 4

FIRST AID MEASURES

Ingestion: If large amount is ingested, give 2-3 glasses of water and induce vomiting. Seek medical attention.
Inhalation: Remove to fresh air. Seek medical attention if condition persists.
Eyes: Flush eyes with running water for at least 15 minutes. Seek medical attention if condition persists.
Skin: Wash with soap and water. Seek medical attention if condition persists.
Notes to Physician: Consult standard literature. Treatment based on the sound judgment of the physician and the individual reactions of the patient.

SECTION 5

FIRE FIGHTING MEASURES

Extinguishing Media: Use media suitable to extinguish source of fire.
Special Fire Fighting Procedures: Product is not combustible.
Unusual Fire and Explosion Hazards: During extremely high temperature fire conditions, the product may reach melting point and decompose to release NH₃, SO_x, PO_x or CN.

SECTION 6

ACCIDENTAL RELEASE MEASURES

Environmental Precautions: Keep out of water supplies, lakes, ponds, streams and rivers. This product is a fertilizer and may promote algae growth.
Steps to be taken in case material is released or spilled: Keep from entering waterways. Sweep up material and place in suitable container for use as a fertilizer or for disposal.

SECTION 7

HANDLING AND STORAGE

Precautions to be taken in handling and storing: Store in a cool, dry area. Prevent spillage and separate from strong oxidizers. Use normal safety procedures and good personal hygiene. Keep out of the reach of children.

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Protection: Adequate ventilation.
Respiratory Protection: Approved dust respirator when necessary.
Protective Clothing: Normal clean work clothing.
Eye Protection: In dusty conditions, safety glasses with side shields or goggles may be necessary.

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Not applicable	Solubility in Water:	40-67 gm/100 ml H ₂ O @ 78°F
Density:	59 lbs/ft ³	% Volatiles (by volume):	Not applicable
Flashpoint:	405°F Sulfur	Vapor Pressure, mm Hg:	Not applicable
pH:	Not listed	Specific Gravity:	0.95
Reaction with Water:	None		
Appearance:	Dark gray and light green granules.		
Extinguishing Media:	Use media suitable to extinguish source of fire.		

SECTION 10 STABILITY AND REACTIVITY

Stability (Normal Conditions): Stable
Conditions to Avoid: Extremely high temperatures.
Incompatibility (Material to Avoid): Strong oxidizing agents. Prolonged contact may cause oxidation of unprotected metals.
Hazardous Decomposition Products: When heated to decomposition may emit toxic fumes of oxides of potassium, sulfur, nitrogen and carbon, acidic chloride gas and CN.
Hazardous Polymerization: Will not occur

SECTION 11 TOXICOLOGY INFORMATION

	<u>Oral LD50 (rat)</u>	<u>Dermal LD50 (rat)</u>	<u>Aquatic Fish 96-hour</u>	<u>Aquatic (other)</u>
Mono-ammonium Phosphate	>2,000 mg/kg	>5,000 mg/kg	> 86 mg/L (rainbow trout)	none listed
Ammonium Sulfate	640-4,250 mg/kg	> 2,000 mg/kg	> 13.6-159.8 mg total NH ₃ /L	> 27.0 mg/total NH ₃ /L (daphnia)
Potassium Chloride	1,500-2,600 mg/kg	none listed	2,010 mg/L	none listed
Manganese Sulfate	2,150 mg/kg	none listed	none listed	none listed
Urea	14,300 mg/kg	none listed	> 9,100 mg/L	> 10,000 mg/L (daphnia)

All toxicity data from TFI Product Testing Results.

SECTION 12 ECOLOGICAL INFORMATION

None listed.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal Procedures: Pick up with a shovel and broom and use as a fertilizer by applying to soil using good agricultural and soil management.

SECTION 14 TRANSPORT INFORMATION

Shipping name:	Not regulated by DOT	C.A.S. Number:	See "Ingredients"
Hazard Class:	None	D.O.T. Number:	None
Reportable Quantity(RQ):	None	Haz Waste No:	None
Labels Required:	None	EPA Regist No:	None
Placard:	None		

SECTION 15 REGULATORY INFORMATION

Carcinogenicity: by IARC?: Yes () No (X) by NTP?: Yes () No (X)

This product contains manganese compounds which may be subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372.45.

SECTION 16 OTHER INFORMATION

Flash Point (Test Method):	405°F	Flammable Limits	LOWER	UPPER
Autoignition Temperature:	Not applicable	(% BY VOLUME)	N/A	N/A

MSDS Version Number: 17 (revision to sections 10)

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Reviewed by: The Environmental Health & Safety Department
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