Turf Magic 18-46-0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Turf Magic 18-46-0
Product Use:	Fertilizer
Manufacturer/Supplier:	Johnston Seed Company 319 W. Chestnut Enid, OK 73701
Phone Number:	580-249-4449
Emergency Phone:	Infotrac: 1-800-535-5053
Date of Preparation:	October 7, 2011
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Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION

MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

Potential Health Effects: See Section 11 for more information.

Likely Routes of Exposure: Skin contact, eye contact, inhalation, and ingestion.

Eye:	May cause eye irritation.
Skin:	May cause skin irritation.
Ingestion:	May be harmful if swallowed. May cause stomach distress, nausea or vomiting.
Inhalation:	Dust may cause respiratory tract irritation.

Chronic Effects: Prolonged or repeated contact may dry skin and cause irritation.

Signs and Symptoms: Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling of the eyes. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms may include coughing, sore throat, difficulty breathing.

Medical Conditions Aggravated By Exposure: Asthma. Allergies.

Target Organs: Skin, eyes, gastrointestinal tract, respiratory system.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential Environmental Effects: May cause long-term adverse effects in the aquatic environment. See Section 12 for more information.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	Wt. %
Diammonium phosphate	7783-28-0	60 - 100
Ammonium hydrogen sulfate	7783-20-2	3 - 7

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Section 4: FIRST AID MEASURES

- **Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if worn. If irritation persists, get medical attention.
- Skin Contact: In case of contact, immediately flush skin with plenty of soap and water or mild detergent. Call a physician if irritation develops or persists. Remove contaminated clothing/shoes. Wash before reuse.
- **Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and seek immediate medical attention.
- **Ingestion:** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

General Advice: In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).

Note to Physicians: Symptoms may not appear immediately. Treat symptomatically and watch for delayed symptoms of pulmonary edema.

Section 5: FIRE FIGHTING MEASURES

Flammability: Not flammable by OSHA criteria.

Means of Extinguishment:

Suitable Extinguishing Media: Regular dry chemical, carbon dioxide, water, regular foam.

Unsuitable Extinguishing Media: Not available.

Products of Combustion: May include, and are not limited to: oxides of carbon, oxides of nitrogen, ammonia, phosphorus oxides, fluorides.

Explosion Data:

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

Protection of Firefighters: Keep upwind of fire due to toxic gases and vapors. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental Precautions: Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

Methods for Containment: Contain and/or absorb spill, then place in an appropriate container.

Methods for Clean-Up: Sweep up material and place in appropriate container for use as a fertilizer or for disposal. Provide ventilation.

Other Information: Not available.

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Section 7: HANDLING AND STORAGE

Handling: Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not ingest. Do not breathe dust. Good housekeeping is important to prevent accumulation of dust. Avoid generating dust. Launder contaminated clothing before reuse. When using do not eat or drink. Wash hands before eating, drinking, or smoking.

Storage:

Keep out of the reach of children. Keep container tightly closed and dry. Store in a cool place, away from incompatibles.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

	Exposure Limits		
Ingredient	OSHA-PEL	ACGIH-TLV	
	5 mg/m ³ TWA (respirable),	3 mg/m ³ TWA (respirable),	
Diammonium phosphate	15 mg/m ³ TWA (total)	10 mg/m ³ TWA (inhalable)	
Ammonium hydrogen sulfate	Not established.	Not established.	

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Personal Protective Equipment:

Eye/Face Protection: Wear eye/face protection. Close-fitting safety goggles may be required to prevent eye contact if excessive dust is generated.

Hand Protection: Wear appropriate chemical resistant gloves.

Skin and Body Protection: Wear appropriate chemical resistant protective clothing.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations: Handle according to established industrial hygiene and safety practices.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Granular.
Color:	Brown to black.
Odor:	Odorless or give off a slight ammonia odor.
Odor Threshold:	Not available.
Physical State:	Solid.
pH:	Approximately 8 (1% aqueous solution)
Viscosity:	Not available.
Freezing Point:	Decomposes @ 155℃ (311 F)
Boiling Point:	Not applicable.
Flash Point:	Not combustible.
Evaporation Rate:	Not available.
Lower Flammability Limit:	Not available.
Upper Flammability Limit:	Not available.

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Vapor Pressure:	<100 Pa @ 20℃ (68℉)	
Vapor Density:	Not applicable.	
Specific Gravity:	1.619	
Solubility in Water:	588 g/L @ 20°C (68°F)	
Coefficient of Water/Oil Distribution:	Not available.	
Auto-ignition Temperature:	Not available.	
Percent Volatile, wt. %:	Not available.	
VOC content, wt. %:	Not available.	
Section 10: STABILITY AND REACTIVITY		

Stability: Stable under normal storage conditions.

Conditions of Reactivity: Heat. Incompatible materials.

Incompatible Materials: Alkalis, strong oxidizers, bases, chlorates, nitrates

Hazardous Decomposition Products: May include, and are not limited to: oxides of carbon, oxides of nitrogen, ammonia, phosphorus oxides, fluorides.

Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use. Contact with high pH or alkaline materials (e.g.,sodium hypochlorite) may cause diammonium phosphate to emit ammonia. Gradually loses ammonia when exposed to air at room temperature.

Section 11: TOXICOLOGY INFORMATION

EFFECTS OF ACUTE EXPOSURE

Component Analysis

Ingredient	LD ₅₀ (oral)	LC ₅₀
Diammonium phosphate	6500 mg/kg, rat	Not available.
Ammonium hydrogen sulfate	2000 mg/kg, rat	Not available.

Eye: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Skin: May cause skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Ingestion: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

Inhalation: Dust may cause respiratory tract irritation. Symptoms may include coughing, sore throat, difficulty breathing.

EFFECTS OF CHRONIC EXPOSURE

Target Organs: Not applicable.

Carcinogenicity: Not hazardous by OSHA criteria.

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen *
Diammonium phosphate	Not listed.
Ammonium hydrogen sulfate	Not listed.

* See Section 15 for more information.

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Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: May cause long-term adverse effects in the aquatic environment.

Persistence / Degradability: Diammonium phosphate is considered biodegradable.

Bioaccumulation / Accumulation: Not available.

Mobility in Environment: Not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Instructions:

This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

Section 14: TRANSPORTATION INFORMATION

DOT Classification

Not regulated

Section 15: REGULATORY INFORMATION

Federal Regulations

US: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200).

SARA Title III

Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Diammonium phosphate	Not listed.	Not listed.	Not listed.	Not listed.
Ammonium hydrogen sulfate	Not listed.	Not listed.	Not listed.	Not listed.

State Regulations

California Proposition 65:

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

Global Inventories

Ingredient	USA TSCA
Diammonium phosphate	Yes.
Ammonium hydrogen sulfate	Yes.

HMIS - Hazardous Materials Identification System

Health - 1 Flammability - 0 Physical Hazard - 0 PPE – B

NFPA - National Fire Protection Association:

Health - 1 Fire - 0 Reactivity - 0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

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SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

- OSHA (O) Occupational Safety and Health Administration.
 ACGIH (G) American Conference of Governmental Industrial Hygienists. A1 - Confirmed human carcinogen. A2 - Suspected human carcinogen.
 - A3 Animal carcinogen.
 - A4 Not classifiable as a human carcinogen.
 - A5 Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

 The agent (mixture) is carcinogenic to humans.
 2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.
 2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.
 3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
 4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

 NTP (N) National Toxicology Program.

 1 - Known to be carcinogens.
 2 - Reasonably anticipated to be carcinogens.

Section 16: OTHER INFORMATION

Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

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