

MATERIAL SAFETY DATA SHEET

16-0-8 TURFGRO FERTILIZER

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC – DAY OR NIGHT 1-800-424-9300

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

FORMULATED FOR:
Horizon Distribution, Inc.
109 North Park Blvd 4th Floor
Covington, LA 70433
1-866-TURFGRO

MANUFACTURER:
Marion Ag Service, Inc.
20160 NE Main St.
St. Paul, OR 97137
1-888-814-5727

24-Hour Emergency Phone: 1-800-424-9300
U.S. Coast Guard National Response Center: 1-800-424-8802

PRODUCT NAME: 16-0-8 TURFGRO FERTILIZER
CHEMICAL NAME: Inorganic/Organic Chemical Fertilizer Mixture
CHEMICAL FAMILY: N-P-K Mixed dry blended fertilizer
EPA REG. NO.: not applicable
MSDS Revisions: New **Date of Issue:** 03-07-14 **Supersedes:** New

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN – May cause mild eye and skin irritation. Avoid contact with skin, eyes, open cuts, or sores. In cases of contact, flush with water. Get medical attention for eyes. This blended dry fertilizer is mixture of Muriate of Potash, Ammonium Sulfate, Biosolids, and Iron Oxide. Nausea and vomiting could be expected upon large dose ingestion. The acute digestive effects are described as nausea, chills, and diarrhea. Eye or skin contact with these products could cause irritation (particularly in sensitive persons), and respiratory irritation could be expected from the unprotected inhalation of fertilizer dusts. Product users should avoid prolonged or repeated skin contact by wearing impervious gloves, long sleeve shirt, long pants, socks and rubber boots. Goggles for eye protection are recommended. Wash thoroughly after handling and using this product.

This product is a multi-colored granule with dusty odor. Primary routes of entry are inhalation, eye contact and skin contact.

3. COMPOSITION, INFORMATION ON INGREDIENTS (Note: see product tag or label for specific ingredients)

N-K-P (NITROGEN-PHOSPHORUS-POTASSIUM) MIXED DRY BLENDED FERTILIZERS – No hazardous ingredient exceeds 1% of mixture

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
Total Nitrogen (N)	16.00	Mixture	not listed
Soluble Potash (K ₂ O)	8.00	Mixture	not listed
Sulfur (S)	16.00	Mixture	not listed
Iron (Fe)	4.00	Mixture	not listed
Fertilizer salts and inert ingredients	56.00		

4. FIRST AID MEASURES

If in Eyes: Flush with clean running water for at least 15 minutes. If irritation persists, get medical attention.
If on Skin: Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists, or if rash develops, get medical attention.
If Swallowed: If conscious, drink 1 or 2 glasses of water. Get medical attention. Never induce vomiting or give anything by mouth to an unconscious person.
If Inhaled: Remove to fresh air. If irritation persists, get medical attention.
FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: **1-800-424-9300**.

5. FIRE FIGHTING MEASURES

FLASH POINT (F/Test Method): Not applicable
FLAMMABLE LIMITS (LFL & UFL): Not applicable

EXTINGUISHING MEDIA: Considered non-combustible, use medium appropriate to surrounding fire. Dry chemical, CO₂, foam, water spray or fog.

HAZARDOUS COMBUSTION PRODUCTS: May include but are not limited to oxides of carbon, hydrogen chloride, hydrogen fluoride, oxides of nitrogen, ammonia, oxides of phosphorus, oxides of sulfur, hydrogen sulfide, and cyanuric acid.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self contained breathing apparatus and full protective gear.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Sulfur-containing components may release oxides of sulfur.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Avoid breathing dusts and vapors. Sweep up dry spills immediately and transfer to suitable containers for possible land application according to label use or for disposal. Check local, state and federal regulations for proper disposal.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE

HANDLING: Avoid breathing fertilizer dust. Avoid prolonged or repeated skin contact. Avoid eye contact. Wash hands thoroughly after handling this product.

STORAGE Store in original containers only. Keep containers tightly closed when not in use. Store in a cool, dry, well-ventilated area, preferably in a locked storage area away from children, feed and food products and seed. Store at ambient temperatures. Do not contaminate water, food or feed by storage or disposal.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Not normally required.
RESPIRATORY PROTECTION: Not normally required. If vapors or dusts exceed acceptable levels, wear a NIOSH approved pesticide respirator.
EYE PROTECTION: Chemical goggles or shielded safety glasses.
SKIN PROTECTION: Wear protective clothing: long sleeved shirts and pants, hat, rubber boots with socks. Wear rubber or chemical-resistant gloves.

	OSHA PEL 8 hr TWA	ACGIH TLV-TWA
Nuisance Particulates	15 mg/m ³ (total dust)	Not Established

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Multi-colored granules with dusty odor
SPECIFIC GRAVITY (Water = 1): 0.9355 g/ml **BULK DENSITY:** 58.40 lbs/ft³ **SOLUBILITY:** Appreciable
VAPOR PRESSURE: Not established **BOILING POINT:** Not established **pH:** Not established
PERCENT VOLATILE (by volume): Not established **EVAPORATION RATE:** Not established **SALT OUT:** Not applicable
Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

STABILITY: Stable **CONDITIONS TO AVOID:** Excessive heat and moisture.
INCOMPATIBILITY: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: May include, but is not limited to oxides of carbon, hydrogen chloride, hydrogen fluoride, oxides of nitrogen, ammonia, oxides of phosphorus, oxides of sulfur, hydrogen sulfide and cyanuric acid.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD50 (rat): >5000 mg/kg **Acute Dermal LD50 (rabbit):** >5000 mg/kg
Eye Irritation (rabbit): May cause irritation **Skin Irritation (rabbit):** May cause irritation in sensitive individuals
Inhalation LC50 (rat): May cause respiratory tract irritation **Skin Sensitization (guinea pig):** Not established
Carcinogenic Potential: None listed in OSHA, NTP, IARC or ACGIH

12. ECOLOGICAL INFORMATION

Drift or runoff may adversely affect non-target plants. Do not apply directly to water. Do not contaminate water when disposing of equipment wash water. Do not apply when weather conditions favor drift from target area.

13. DISPOSAL CONSIDERATIONS

Do not reuse container. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or if allowed by State and local authorities, by burning. If burned, stay out of smoke. Do not contaminate water, food or feed by storage or disposal.

14. TRANSPORT INFORMATION

DOT Shipping Description: NOT REGULATED BY USDOT

U.S. Surface Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI; DRY (NMFC 68140, SUB 5; CLASS 50)
Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:	NFPA		HMIS
	1 Health	0 Least	1 Health
	1 Flammability	1 Slight	1 Flammability
	0 Instability	2 Moderate	0 Reactivity
		3 High	G PPE
		4 Severe	

SARA Hazard Notification/Reporting

SARA Title 111 Hazard Category: Immediate Y Fire Y Sudden Release of Pressure N
 Delayed N Reactive N

Reportable Quantity (RQ) under U.S. CERCLA: Not listed

SARA, Title 111, Section 313: Not listed

RCRA Waste Code: Not listed

CA Proposition 65: Not listed

16. OTHER INFORMATION

MSDS STATUS: New

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