

# MATERIAL SAFETY DATA SHEET

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC- DAY

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

OR NIGHT 1-800-424-9300

### FORMULATED FOR:

Independent Turf Partners, Inc.  
P.O. Box 682  
Jensen Beach, FL 34958

24- Hour Emergency Phone: 1-800-424-9300  
Medical Emergencies: 1-800-301-7976  
U.S. Coast Guard National Response Center: 1-800-424-8802

**PRODUCT NAME:** Terra Bonne N28  
**CHEMICAL NAME:** Urea triazone fertilizer solution  
**CHEMICAL FAMILY:** Aqueous, organic salt solution

**Date of Issue:** 01/31/12

## 2. HAZARDS IDENTIFICATION SUMMARY

**KEEP OUT OF REACH OF CHILDREN - CAUTION** - May cause eye and skin irritation. Avoid contact with skin, eyes, open cuts, and sores. In case of contact, flush with water. Get medical attention for eyes. This blended liquid fertilizer is derived from urea-triazone solution. Nausea and vomiting could be expected upon large dose ingestion. The acute ingestive effects are described as nausea, chills, and diarrhea. Eye and skin contact with these products could cause irritation (particularly in sensitive persons), and respiratory irritation could be expected from the unprotected inhalation of fertilizer mists. 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 clear liquid with an ammonia odor. Primary routes of entry are inhalation & eye contact. Skin absorption is unlikely to occur.

## 3. COMPOSITION, INFORMATION ON INGREDIENTS

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

<u>Chemical Ingredients:</u>	<u>Percentage of Weight:</u>	<u>CAS No.</u>
Triazone	70%	7098-14-7
Urea	30%	57-13-6

## 4. FIRST AID MEASURES

**If in eyes:** Immediately rinse with water for 5 minutes  
**If on skin:** Wash skin with soap and water  
**If swallowed:** Rinse mouth with water and drink large quantity of water  
**If inhaled:** Remove product or move person to fresh air

## 5. FIRE FIGHTING MEASURES

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

**EXTINGUISHING MEDIA:** Use foam, CO<sub>2</sub>, dry chemical, or water  
**HAZARDOUS COMBUSTION PRODUCTS:** Heating to dryness may cause the release of ammonia and carbon dioxide. Ammonia may form flammable mixtures with air.  
**SPECIAL FIRE FIGHTING PROCEDURES:** Remove container from fire area

## 6. ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Stop leak, contain spill and absorb with soil or natural absorbents. Sweep up waste and place in container for disposal. Wash down area. Uncontaminated spilled material may be reused.

## 7. HANDLING AND STORAGE

**HANDLING:** Avoid eye contact and prolonged skin contact. Respiratory protection is normally not required. Sealed containers may develop pressure, open with caution. Wash hands thoroughly after handling the product.  
**STORAGE:** Store in the original labeled container in a cool place away from direct sunlight. Keep separate from food and feed products and out of reach of children and animals. Avoid storage at temperatures of 110F or higher. Corrosive to steel, aluminum, brass. Use with stainless steel or PVC fittings. Product may stain unfinished wood, painted surfaces, or concrete.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Not normally required.  
**RESPIRATORY PROTECTION:** Not normally required.  
**PERSONAL PROTECTIVE EQUIPMENT:** Chemical goggles or shielded safety glasses and rubber or neoprene gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE AND ODOR:** Clear liquid with ammonia smell  
**SOLUBILITY:** Completely  
**pH:** 7.0-11.0  
**SPECIFIC GRAVITY (Water = 1):** 1.27  
**VAPOR PRESSURE:** not available  
**PERCENT VOLATILE (by volume):** 20-60%

**BULK DENSITY:** 10.5 pounds / gallon  
**BOILING POINT:** > 100° C  
**EVAPORATION RATE:** of water

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 for at least 2 years under normal conditions.  
**INCOMPATIBILITY:** Strong oxidizing agents, alkalis  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Not applicable  
**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Acute Oral LD<sub>50</sub>(rat):** not established  
**Acute Dermal LD<sub>50</sub>(rabbit):** not established  
**Eye Irritation (rabbit):** not established  
**Inhalation LC<sub>50</sub>(rat):** not established  
**Carcinogenic Potential:** None listed in OSHA, NTP, IARC, or ACGIH

**Skin Irritation (rabbit):** not established  
**Skin Sensitization (guinea pig):** not established

## 12. ECOLOGICAL INFORMATION

**Ecotoxicology:** Due to the non-toxic classification of this product no negative impact on wildlife is expected.

**Biodegradation:** Oxidation and microorganisms.

**13. DISPOSAL CONSIDERATIONS**

**Waste disposal:** Contaminated absorbents and surplus product should be buried in accordance with any local legislation.

**Container disposal:** Wash thoroughly with water and soap prior to reuse.

**14. TRANSPORT INFORMATION**

**DOT Shipping Description:** NOT REGULATED BY USDOT.  
**U.S. Surface Freight Classification:** FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI; LIQUID (NMFC 68140, SUB 6)

**15. REGULATORY INFORMATION**

<b>NFPA &amp; HMIS Hazard Ratings:</b>	NFPA		HMIS
	1 Health	0 Least	1 Health
	0 Flammability	1 Slight	0 Flammability
	0 Instability	2 Moderate	0 Reactivity
		3 High	H PPE
	4 Severe		

**SARA Hazard Notification/Reporting**  
**SARA Title III Hazard Category:** Immediate Y Fire N Sudden Release of Pressure N  
Delayed N Reactive N

**Reportable Quantity (RQ) under U.S. CERCLA:** Not listed  
**SARA, Title III, Section 313:** Not listed  
**RCRA Waste Code:** Not listed

**16. OTHER**

**PREPARED BY:** Registrations and Regulatory Affairs **REVIEWED BY:** Environmental/ Regulatory Services

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