

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 **Product Name:** Green-T® 30-0-0, 90% MSN (Methylene Stabilized Nitrogen)
Chemical Family: Urea-Formaldehyde Fertilizer with Urease Inhibitor
Synonyms: MSN Fertilizer

1.2 **Manufactured By:** Plant Food Company, Inc. **Emergency Telephone Number** 609-448-0935
 38 Hightstown-Cranbury Station Road **Telephone Number for Information** 609-448-0935
 Cranbury, NJ 08512 **Date Prepared** 11/1/2011

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components (Specific Chemical)

Identity: Common Name	(CAS #)	OSHA PEL	ACGIH TLV	Other Limits Recommended
Triazone-Methylene Urea Complex	0	N/A	N/A	N/A

SECTION 3: HAZARDS IDENTIFICATION

Clear, colorless liquid with a ammoniacal odor. May cause eye and skin irritation. May be harmful if ingested. Not D.O.T. regulated
 NEPA: Health:2 Reactivity:0 Flammability:0 Environment:0 (0=Insignificant=1 Slight 2=Moderate 3=High 4=Extreme)

EMERGENCY OVERVIEW

Contact may cause eye irritation. Repeated/prolonged skin contact may cause irritation. Ingestion may irritate gastrointestinal tract. Heating may cause ammonia gas to evolve.

3.1 POTENTIAL HEALTH EFFECTS
EYE: Contact with liquid or mist can cause mild to moderate eye irritation or injury. Repeated or prolonged exposure to vapors released from hot or curing product may cause mild to moderate eye irritation. Symptoms may include redness, watering, itching or a burning sensation in the eyes.
SKIN CONTACT: Prolonged or repeated contact with product mist or solution may cause skin irritation.
SKIN ABSORPTION: Not expected to be a primary skin irritant or toxic by skin contact. However, prolonged contact or poor industrial hygiene practices may cause mild to moderate skin irritation.
INGESTION: Not expected to be orally toxic. In normal industrial use, ingestion is not considered a probable route of exposure.
INHALATION: Not expected to be orally toxic. In normal industrial use, ingestion is not considered a probable route of exposure.
 heated. Prolonged or repeated overexposure to ammonia vapors may harm the eyes, mucous membranes, and/or upper respiratory tract.

SECTION 4: FIRST AID MEASURES

4.1 **EYES:** Immediately flush with large quantities of water for 15 minutes. Remove contact lenses. Hold eyelids apart during irrigation to insure thorough flushing of the entire area of the eye and lids. Obtain medical attention if irritation occurs.
 4.2 **SKIN:** Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Obtain medical attention if irritation occurs. Launder contaminated clothing before reuse.
 4.3 **INGESTION:** If victim is conscious, immediately rinse mouth and give large quantities of water. Get immediate medical attention. Never give anything by mouth to an unconscious person.
 4.4 **INHALATION:** Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has ceased, clear airway and start mouth to mouth resuscitation. If heart has stopped beating, external heart massage should be applied

SECTION 5: FIREFIGHTING MEASURES

5.1 **FLAMMABLE PROPERTIES**
FLASHPOINT: Not flammable **METHOD USED:** NA
 5.2 **FLAMMABLE LIMITS:** LFL: NA UFL: NA
 5.3 **EXTINGUISHING MEDIA:** Use water spray, dry chemical, or carbon dioxide.

5.4 **FIRE & EXPLOSIVE HAZARDS:** Heating to dryness may cause the release of ammonia and carbon dioxide. Ammonia, NH3, (16-25%) may form flammable mixtures with air. Keep containers/storage vessels in fire area cooled with water spray. Heating may cause the release of ammonia vapors.
 5.5 **FIRE FIGHTING EQUIPMENT:** As in any fire, wear self-contained breathing apparatus, pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Avoid smoke inhalation. Contain any liquid runoff.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 **SMALL RELEASES:** Confine and absorb small releases on sand earth or other inert absorbent. Use water spray to dilute to weaken fertilizer solution.
 6.2 **LARGE RELEASES:** Confine area to qualified personnel. Shut off release if safe to do so. Dike spill area to prevent runoff into sewers, drains or surface waterways (potential aquatic toxicity). Recover as much of the solution as possible. Treat remaining material as a small release (above). DO NOT flush to sewer.

SECTION 7: HANDLING AND STORAGE

7.1 **HANDLING:** Avoid contact with eyes. Use only in a well ventilated area. Wash thoroughly after handling. Avoid prolonged or repeated breathing of vapors. Avoid prolonged or repeated contact with the skin.
 7.2 **STORAGE:** Store in well ventilated areas. Do not store combustibles in the area of storage vessels. Keep away from any sources of heat or flame. Store tote and smaller containers out of direct sunlight at moderate temperatures. For maximum storage life, store at temperatures below 77°F (25°C) (See Section 10.4 for materials of construction)
 7.3 **Transfer Equipment:** Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

8.1 **RESPIRATORY PROTECTION:** None generally required. If conditions exist where mist may be generated, a NIOSH/MSHA approved mist respirator should be worn.
 8.2 **SKIN PROTECTION:** Neoprene rubber gloves and apron should be worn to prevent repeated or prolonged contact with the liquid. Wash contaminated clothing prior to reuse.
 8.3 **EYE PROTECTION:** Chemical goggles and a full face shield. DO NOT WEAR CONTACT LENSES.
 8.4 **EXPOSURE GUIDELINES:**

	OSHA	TWA	ACGIH	STEL
Ammonia	50 ppm	50 ppm	25 ppm	N/A
				35 ppm

8.5 **ENGINEERING CONTROLS:** Use adequate exhaust ventilation to prevent inhalation of product vapors.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE	Clear, colorless liquid
9.2 ODOR:	Ammoniacal
9.3 VAPOR PRESSURE:	Not determined
9.4 VAPOR DENSITY:	Not determined
9.5 SOLUBILITY IN WATER:	Complete
9.6 SPECIFIC GRAVITY (H ₂ O = 1):	
9.7 MELTING POINT:	Not Applicable
9.8 pH:	
9.9 VOLATILE:	Approximately 30%
9.10 COLOR:	Clear, colorless liquid
9.11 WEIGHT PER GALLON:	10.3 lbs (4.67 kg)
9.12 STORAGE LIFE AT 70° F:	> 1 Year
9.13 PH-21C:	
9.15 VISCOSITY:	
9.16 FREEZING POINT:	< 32° F
9.17 EVAPORATION RATE:	
9.18 BOILING POINT:	212°F (100 °C)

SECTION 10: STABILITY AND REACTIVITY

- 10.1 STABILITY: This product is stable under the recommended storage conditions.
- 10.2 HAZARDOUS POLYMERIZATION: Will not occur.
- 10.3 HAZARDOUS DECOMPOSITION PRODUCTS: Ammonia fumes may be released upon heating. When heated to decomposition this product emits acrid smoke and irritating fumes.
- 10.4 INCOMPATIBILITY: Avoid contact or contamination with strong oxidizers, or acids.
- 10.5 SPECIAL REMARKS: Elevated storage temperatures will shorten product storage life.

SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1 ORAL: This product is not expected to be orally toxic.
- 11.2 DERMAL: This product is not expected to be a primary skin irritant or dermally toxic. However, prolonged or repeated exposure may cause mild to moderate skin irritation.
- 11.3 INHALATION: This product is not expected to be acutely toxic by inhalation.
- 11.4 CHRONIC/CARCINOGENICITY: No evidence available
- 11.5 TERATOLOGY: Data not available
- 11.6 REPRODUCTION: Data not available
- 11.7 MUTAGENICITY: Not mutagenic in an Ames Assay using Salmonella typhimurium.
- 11.8 EYES: Contact with liquid or mist can cause mild to moderate eye irritation or injury.

SECTION 12: ECOLOGICAL INFORMATION

This product is biodegradable under aerobic and anaerobic conditions.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of absorbed material in accordance with all federal, state, and local regulations. Dispose of contaminated water in a contained waste treatment system.

SECTION 14: TRANSPORTATION INFORMATION

14.1 DOT Shipping Name: Non-regulated

SECTION 15: REGULATORY INFORMATION

- 15.1 OSHA: This product is listed as a hazardous material under criteria of the Federal OSHA Hazard Communication Standard, 29 CFR 1910.1200. AMMONIA
- 15.2 SARA TITLE III: a. EHS (Extremely Hazardous Substance) List: NO
 b. Section 311/312, (Tier 1,II) Categories: Immediate (acute): Yes, Fire: NO; Sudden release: NO; Reactivity: NO; Delayed (chronic): NO
- 15.3 CERCLA/SUPERFUND: RQ(Reportable Quantity) : NO
- 15.4 TSCA (Toxic Substance Control Act) Inventory List: YES
- 15.5 RECR (Resource Conservation and Recovery Act) Status: NA
- 15.6 WHMIS (Canada) Hazard Classification: NA
- 15.7 DOT Hazardous Material: See Section 14): NO
- 15.8 CAA Hazardous Air Pollutant (HAP): NO

SECTION 16: OTHER INFORMATION

CAUTION: Empty containers may contain produc residue. Continue to observe reommended safety precautions when handling empty containers.
 This information was developed from information on the constituent materials. No warranty is expressed or implied regarding the completeness or continuing accuracy of the information contained herein, and Plant Food Company, Inc. disclaims all liability for reliance thereon. The user should satisfy himself that he has all current data relevant to his particular use.