

# MATERIAL SAFETY DATA SHEET



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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **Davey Arbor Green® Pro 30-10-7**

COMPANY NAME: Davey Tree Expert Company  
DIVISION: Davey Institute  
ADDRESS: 1500 N. Mantua St., Kent, OH 44240

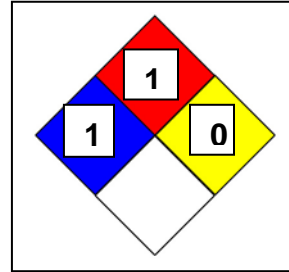
EMERGENCY PHONE: 800-447-1667

FAX: 330-673-5408

CHEMICAL FORMULA: Slow Release Tree Fertilizer

PREPARED BY: Environmental Programs Department

DATE PREPARED: 2-25-07 (New formulation)



NFPA Hazard Classification:

HEALTH: 1  
FLAMMABILITY: 1  
REACTIVITY: 0

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS: Ureaform (also called Nitroform powder), Monopotassium Phosphate, Potassium Polyaspartate and green dye.

OSHA PEL-TWA: None established for fertilizer mixtures

ACTGIH TLV- TWA: None established for fertilizer mixtures

Ingredient	CAS Number
Ureaform	9011-05-6
Monopotassium Phosphate	7778-77-0100
Potassium Polyaspartate	64723-18-8

SECTION 2 NOTES: Some fertilizers are considered nuisance dusts. Nuisance dust limit is 15 mg / M<sup>3</sup> (total) and 5 mg / M<sup>3</sup> (respirable). Arbor Green Pro is generally less dusty than original formulation. Ureaform and monopotassium phosphate are listed under TSCA.

## SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Prolonged contact may cause mild irritation to skin. May be a mild eye irritant.

ROUTES OF ENTRY: **Inhalation:** YES (as dust); **Skin:** YES (dermal contact); **Ingestion:** NONE EXPECTED

### POTENTIAL HEALTH EFFECTS

**EYES:** May cause irritation **SKIN:** May cause irritation **INGESTION:** May cause irritation **INHALATION:** May cause irritation

**ACUTE HEALTH HAZARDS:** Ingestion of large amounts of powder or solution may cause nausea, vomiting, gastric pain, diarrhea and shock.

**CHRONIC HEALTH HAZARDS:** None expected

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** None

**CARCINOGENICITY:** OSHA: No **ACGIH:** No **NTP:** No **IARC:** No

## SECTION 4: FIRST AID MEASURES

**EYES:** Flush eyes with plenty of water

**SKIN:** Wash with soap and water

**INGESTION:** Obtain medical attention

**INHALATION:** Remove to fresh air. Expel mucus from nose if feasible.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** This product does not contain nitrates. This product is mainly used as ground injection fertilizer around tree roots. Adults, children and pets may be exposed to small amounts of the diluted solution.

## SECTION 5: FIRE-FIGHTING MEASURES

**FLAMMABLE LIMITS IN AIR, UPPER:** NA **LOWER:** NA

**FLASH POINT:** NA (non combustible)

**AUTOIGNITION TEMPERATURE:** ND

**EXTINGUISHING MEDIA:** Water spray

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear NIOSH approved self-contained breathing apparatus and protective clothing. Do not breath fumes.

Do not allow run off or contamination of water supplies.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Fine dust dispersion in the air may form an explosive mixture.

**HAZARDOUS DECOMPOSITION PRODUCTS:** If heated to decomposition, will give off toxic fumes of ammonia and formaldehyde.

SECTION 5 NOTES: Not an oxidizer

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**ACCIDENTAL RELEASE MEASURES:** Sweep & reuse powder per label directions. If product is contaminated, place in proper waste disposal container and dispose according to regulation. Residues may be difficult to remove from porous surfaces such as concrete sidewalks. Coarse sand may absorb liquid solution residues on these surfaces. Residues on house siding may be removed by washing and rinsing immediately with Dawn brand detergent and water or use Simple Green brand cleaner according to directions.



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## SECTION 7: HANDLING AND STORAGE

**HANDLING AND STORAGE:** Store in dry area away from foodstuffs, potable water or other chemicals. Store product away from drains and sewers.  
**OTHER PRECAUTIONS:** Do not eat, drink or smoke while handling this product.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**VENTILATION:** Provide normal ventilation when working with any type of fertilizer.  
**RESPIRATORY PROTECTION:** None necessary; but if dusty conditions exist wear disposable mask.  
**EYE PROTECTION:** Goggles or safety glasses  
**SKIN PROTECTION:** Wear impervious gloves such as rubber or nitrile to avoid skin contact. Wear impervious boots during application.  
**WORK HYGIENIC PRACTICES:** Wash thoroughly with soap and rinse with water. Keep out of reach of children, domestic pets and unauthorized adults. Practice good care and normal safety precautions when handling product. Dry powder may cause drying and chapping of hands of sensitive individuals. Asthmatics may be susceptible to dry powder dusts.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Fine green-colored powder  
**ODOR:** Odorless  
**PHYSICAL STATE:** Solid  
**pH (Other):** 4.97 (@ 45.36 grams / 32 ml water)  
**VAPOR PRESSURE (mmHg @ 70°F):** NA (not volatile)  
**BULK DENSITY:** 0.94 g/cm<sup>3</sup>  
**SOLUBILITY IN WATER:** Moderate solubility in water

## SECTION 10: STABILITY AND REACTIVITY

**STABILITY:** Yes. Keep dry  
**CONDITIONS TO AVOID (STABILITY):** Avoid high temperatures; temperatures above 270°C will decompose product  
**INCOMPATIBILITY (MATERIAL TO AVOID):** Avoid copper alloys or galvanized metals  
**HAZARDOUS POLYMERIZATION:** Will not occur  
**CONDITIONS TO AVOID (POLYMERIZATION):** None known

## SECTION 11: TOXICOLOGICAL INFORMATION

**TOXICOLOGICAL INFORMATION:** LD50: (oral rat): > 10,000 mg/ kg; LC50 (inhalation): NA; expected to have low or no toxicity

## SECTION 12: ECOLOGICAL INFORMATION

**ECOLOGICAL INFORMATION:** No toxicity studies have been published.

## SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Wrap powder carefully and place in appropriate waste container. Avoid contamination of water resources or supplies. Dispose in accordance with federal, state and local regulations.  
**RCRA HAZARD CLASS:** Non-hazardous waste

## SECTION 14: TRANSPORT INFORMATION

**U.S. DEPARTMENT OF TRANSPORTATION:** Not Regulated. Components of this fertilizer are not listed on DOT 172.101 Hazardous Materials Table or Appendix A. Avoid accidental releases by safely transporting in closed and/or secured systems.

## SECTION 15: U.S. FEDERAL & STATE REGULATORY INFORMATION

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** NA RQ: NA  
**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):**  
**311/312 HAZARD CATEGORIES:** NA; Components are considered "non-hazardous" by each component manufacturer.  
**313 REPORTABLE INGREDIENTS:** None

**DISCLAIMER:** The above information is intended to describe our product in respect to safety and handling requirements only and is furnished without warranty expressed or implied, except that it is accurate to the best knowledge of Davey Tree Expert Company. All statements and recommendations contained herein are based on available data that is believed to be reliable. We cannot anticipate all conditions under which this information and our products are used. Davey Tree Expert Company assumes no legal responsibility for use or reliance upon this data.

Revision 8/24/07 added bulk density