

SAFETY DATA SHEET



SDS DATE: 1/12/2010; revised 5/10/11 Page 1 of 2

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **Davey Arbor Green® Pro Phosphorus Free 30-0-10**

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

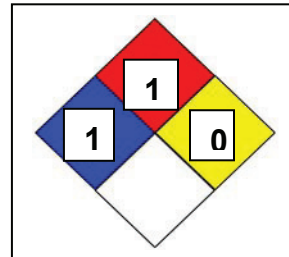
EMERGENCY PHONE: 800-447-1667

FAX: 330-673-5408

CHEMICAL FORMULA: Slow Release Tree Fertilizer

PREPARED BY: Environmental Programs Department

DATE PREPARED: 2009 (New formulation)



NFPA Hazard Classification:

HEALTH: 1
FLAMMABILITY: 1
REACTIVITY: 0

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS: Ureaform (also called Nitroform powder), Potassium Sulfate, and Potassium Polyaspartate

OSHA PEL-TWA: None established for fertilizer mixtures

ACTGIH TLV- TWA: None established for fertilizer mixtures

Ingredient	CAS Number
Ureaform	9011-05-6
Potassium Sulfate	7778-80-5
Potassium Polyaspartate	64723-18-8

SECTION 2 NOTES: Some fertilizers are considered nuisance dusts. Nuisance dust limit is 15 mg / M³ (total) and 5 mg / M³ (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:** NONE EXPECTED (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.

SAFETY DATA SHEET

SDS DATE: 1/12/2010; revised 5/10/11 Page 2 of 2

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 light green colored powder
ODOR: Odorless
PHYSICAL STATE: Solid
BULK DENSITY: 0.87 g/cm³
pH: @ 50 grams/50 ml water= 7.15
VAPOR PRESSURE (mmHg @ 70°F): NA (not volatile)
SOLUBILITY IN WATER: Moderately soluble 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: No toxicity studies have been completed. However, individual ingredient LD50: (oral rat): > 5,000 mg/ kg from MSDS; 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: If clean reuse. If contaminated, 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.

Revised 5/10/11 – bulk density and pH added