

**TechPac, LLC.**  
**P.O. Box 24830 Lexington, KY 40524**  
**Material Safety Data Sheet**

**GardenTech ROOTONE Brand F Rooting Hormone**  
This product is used by Homeowners and Professionals  
March 2006                      Product Code(s): 7800, 7801, 7812

**SECTION 1 - PRODUCT INFORMATION**

Information: 800-969-7200

Medical Emergency: 800-420-9347

Product Spill or Transportation Emergency: 800-424-9300

EPA Reg. Number: 264-499-71004

Chemical Name: 1-Naphthaleneacetamide; 2-methyl-1-naphthalene acetic acid & acetamide; Indol-e-3-butyric acid; and Thiram.

Trade Names: NA; ROOTONE

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**SECTION 2 - COMPOSITION**

<u>Component</u>	<u>Percentage</u>	<u>ACGIH Exposure Limit</u>	<u>OSHA Exposure Limit</u>
1- Naphthaleneacetamide [86-86-2]	0.067%	TLV - N/E	PEL - N/E
2-methyl-1-naphthaleneacetic acid [85-08-5]	0.033%	TLV - N/E	PEL - N/E
2-methyl-1-naphthaleneacetamide [85-07-4]	0.013%	TLV - N/E	PEL - N/E
Indole-3-butyric acid [133-32-4]	0.057%	TLV - N/E	PEL - N/E
Thiram [137-26-8]	4.0000%	TLV - 5 mg/m3	PEL - 5 mg/m3
Talc	95.830%	TLV - 2 mg/m3 (dust)	PEL - 20 mppcf

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**SECTION 3 - HEALTH HAZARD DATA**

**EMERGENCY OVERVIEW**

An off-white odorless dust that:

\* Is harmful if swallowed, inhaled, or absorbed through the skin.

\* Causes eye irritation.

**ROUTE(S) OF ENTRY:** Ingestion, Inhalation and skin contact.

**EYES:** Causes eye irritation, redness and tearing.

**SKIN:** Prolonged contact can cause chronic dermatitis. Low acute dermal toxicity.

**INGESTION:** Low acute oral toxicity.

**INHALATION:** Harmful if inhaled. Dusts may cause upper respiratory tract irritation, coughing, and wheezing.

**MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:** Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease. Adverse effects may arise if taking alcohol.

**CHRONIC EFFECTS:** This product contains ingredients that are considered to be probable or suspected human carcinogens (see Section 11 – Chronic). Prolonged contact can cause chronic dermatitis.

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**SECTION 4 - FIRST AID**

**IF SWALLOWED:** If victim is conscious and alert, give 2-3 glasses of water to drink and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs and the victim is conscious, give water to further dilute the chemical

**IF IN EYES:** Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.

**IF ON SKIN:** In case of contact, wash with plenty of soap and water. Seek medical attention if irritation develops or persists.

**IF INHALED:** Remove from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardio-pulmonary resuscitation). Seek medical attention.

**NOTE TO PHYSICIAN:** All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

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**SECTION 5 - FIRE & EXPLOSION HAZARDS**

**FLASH POINT:** Not Applicable

**EXTINGUISHING MEDIA:** Not combustible. Use extinguishing method suitable for surrounding fire.

**SPECIAL FIRE FIGHTING PROCEDURES:** Firefighters should wear NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing. Dike area to prevent run-off and contamination of water sources. Dispose of fire control water later.

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** Under fire conditions, toxic, corrosive fumes are emitted.

**HAZARDOUS DECOMPOSITION MATERIALS (Under Fire Conditions):** Nitrogen oxides, Sulfur oxides, and Carbon oxides

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**SECTION 6 - SPILL AND LEAK PROCEDURES**

**EVACUATION PROCEDURES AND SAFETY:** Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

**CLEANUP AND DISPOSAL OF SPILL:** Scrape up and place in appropriate closed container (see Section 7: Handling and Storage). Collect washings for disposal. Decontaminate tools and equipment following cleanup. Avoid creation of dusty conditions.

**ENVIRONMENTAL AND REGULATORY REPORTING:** If spilled on ground, the affected area should be scraped clean and placed in an appropriate container for disposal. Do not flush to drain. Prevent material from entering public sewer system or any waterways. Dispose of as a hazardous waste.

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**SECTION 7 - STORAGE & HANDLING**

**Minimum/Maximum Storage Temperatures:** Not available

**Storage:** Store in an area that is away from food, feedstuffs, fertilizers and seed.

**Handling:** Do not get on skin or in eyes. Do not breathe dusts. Do not ingest.

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**SECTION 8 - SPECIAL PROTECTION INFORMATION**

**INTRODUCTORY REMARKS:** These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

**EXPOSURE GUIDELINES:** Exposure limits represent regulated or recommended worker breathing zone concentrations measured by validated sampling and analytical methods, meeting the regulatory requirements. The following limits apply to this material, where, if indicated, S=skin, C=ceiling limit:

**Thiram:**

	Notes	TWA	STEL
ACGIH		1 mg/m <sup>3</sup>	
OSHA		5 mg/m <sup>3</sup>	

**Talc:**

	Notes	TWA	STEL
ACGIH		2 mg/m <sup>3</sup>	
OSHA		2 mg/m <sup>3</sup>	

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**SECTION 8 - SPECIAL PROTECTION INFORMATION (continued)**

**ENGINEERING CONTROLS:** Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following exposure control techniques may be used to effectively minimize employee exposures.

**RESPIRATORY PROTECTION:** When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

Under normal conditions, in the absence of other airborne contaminants, the following devices should provide protection from this material up to the conditions specified by the appropriate OSHA, WHMIS or ANSI standard(s): Air-purifying (half-mask/full-face) respirator with cartridges/canister approved for use against dusts, mists and fumes, pesticides. Under conditions immediately dangerous to life or health, or emergency conditions with unknown concentrations, use a full-face positive pressure air supplied respirator equipped with an emergency escape air supply unit or use a self-contained breathing apparatus unit.

**EYE/FACE PROTECTION:** Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANZI Z87 approved equipment should be selected for the particular use intended for this material.

Eye contact should be prevented through use of chemical safety glasses with side shields or splash-proof goggles. An emergency eye wash must be readily accessible to the work area.

**SKIN PROTECTION:** Skin contact should be minimized through use of gloves and suitable long-sleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance.

**WORK PRACTICE CONTROLS:** Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

1. Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
2. Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
3. Wash exposed skin promptly to remove accidental splashes of contact with this material.

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**SECTION 9 - PHYSICAL DATA**

Physical Form: Dust                      Color: Natural Off White                      Odor: Odorless  
pH: N/A                                      Specific Gravity: Not available                      Water solubility: Insoluble  
Melting Point Range: Not available Boiling Point Range: Not available Vapor Pressure: Not available  
Vapor Density: Not available                      Molecular Weight: 185.24

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**SECTION 10 - REACTIVITY DATA**

Stability: Stable.    Polymerization: Will not occur  
Conditions To Avoid: None known  
Materials/Chemicals To Be Avoided: Strong Oxidizing Agents  
Decomposition Products (Thermal): Nitrogen oxides, Sulfur oxides

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

ACUTE INGESTION: LD<sub>50</sub> ORAL (rats) > 5000 mg/kg  
ACUTE ABSORPTION: LD<sub>50</sub> DERMAL (rabbits) > 2000mg/kg  
ACUTE INHALATION: LC<sub>50</sub> INHALATION (rats – 4 hr) > 5.27 mg/L  
EYE IRRITATION (rabbit): slightly irritating  
SKIN IRRITATION (rabbit): Non-irritating  
CHRONIC TOXICITY: This product contains the substances that are considered to be “probable” or “suspected” human carcinogens as follows:

Ingredient Name	Regulatory Agency Listing Carcinogen			
	OSHA	IARC	NTP	ACGIH
TALC	No	1	No	No

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**SECTION 12 - ECOLOGICAL INFORMATION**

No ecological information is available for this formulation.

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**SECTION 13 - DISPOSAL**

**WASTE DISPOSAL METHOD:** Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

**CONTAINER HANDLING AND DISPOSAL:** DO NOT REUSE CONTAINERS. Any containers or equipment used should be decontaminated immediately after use. Consult state and local regulations regarding the proper disposal of container.

**EPA HAZARDOUS WASTE:** YES

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**SECTION 14 - TRANSPORTATION**

Proper Shipping Name: GardenTech Rootone Brand F Rooting Hormone  
Technical Name (if applicable):  
UN Initial & Number: Not regulated                      Class:                      Packing Group:                      RQ: Not required  
Hazard Labels: None Required

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**SECTION 15 - REGULATORY INFORMATION**

**FEDERAL REGULATIONS:**

**Inventory Issues:** This product is excluded from TSCA because it is solely for FIFRA regulated use.

**SARA Title III Hazard Classes:**

- Fire Hazard    - No
- Reactive Hazard                                      - No
- Release of Pressure                                - No
- Acute Health Hazard                                - Yes
- Chronic Health Hazard                             - Yes

**SARA Extremely Hazardous Substances (EHS)/CERCLA Hazardous Substances:**

Ingredient	CERCLA/SARA RQ	SARA EHS TPQ
Thiram	10 lbs	

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**SECTION 15 - REGULATORY INFORMATION (continued)**

**STATE REGULATIONS:**

**California Proposition 65:** None listed

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**SECTION 16 - OTHER INFORMATION**

**NOTICE FROM TECHPAC, LLC.**

The information contained herein is offered only as a guide to the handling of this specific material. Since such information does not relate to use of the material with any other material or in any process, any person using this information must determine for himself its suitability for any particular application. The buyer and user assumes all risk and liability of use, storage and/or handling of this product not in accordance with the terms of the product label.

**ABBREVIATIONS KEY:**

N/A = Not available or applicable

N/E = Not established

TLV=Threshold Limit Value

PEL= Permissible Exposure Limit

CRP= Child Resistant Packaging