

# MATERIAL SAFETY DATA SHEET

Date stamp: 01-Sep-2005 MSDS Ref. No.: 028221020 Revision Number: 3

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: ORTHO® Orthene® Fire Ant Killer 1

**Description:** Insecticide

Company

The Scotts Company 14111 Scottslawn Road Marysville, OH 43041

EPA Registration No.: 239-2632

Formula No.: S10295

### 24-HOUR EMERGENCY TELEPHONE NUMBERS:

CHEMTREC (U.S.): 1-800-424-9300 CHEMTREC (International): 1-703-527-3887 Non-Emergency Calls: 1-937-644-0011

#### 2. HAZARDS IDENTIFICATION

Labelling

Signal word: CAUTION.

Precautionary Statement Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes, skin, and clothing. Avoid

breathing dust or spray mist. Wear long pants, long-sleeved shirt, socks, shoes, and chemical resistant

gloves when handling or applying product. Keep out of reach of children.

Potential health effects

Eye contact: May cause slight irritation.
Skin contact: Irritation not expected.

**Ingestion:** Slightly toxic.

**Inhalation:** May cause irritation of respiratory tract.

**Aggravated Medical Conditions:** Inhalation may aggravate asthma.

Properties affecting health:Cholinesterase inhibition.Principle routes of exposure:Skin, Eyes, Inhalation, IngestionTarget organ effects:Irritation. Nervous system.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No	Weight %
Acephate	30560-19-1	50
Inert Ingredients	PROPRIETARY	50

# 4. FIRST AID MEASURES

Eye contact: Hold eye open and rins slowly and gently with water for 15-20 minutes. Remove contact lenses, if present

after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment

advice

Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a

poison control center or doctor for treatment advice

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if

able to swallow. Do not induce vomiting unless told to do so be a poison control center or doctor. Do not

give anything by mouth to an unconscious person

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial

respiration, preferabley by mouth-to-mouth, if possible. Call a poison control center or doctor for further

treatment advice

Notes to physician: Contains a cholinesterase inhibitor; atropine sulfate and protopam (2-PAM) are antidotal, but 2-PAM

should not be used alone.

Protection of first-aiders: Wear personal protective equipment. Do not breathe vapors or spray mist. Avoid contact with skin and

eyes.

Revision date: 18-May-2005 Page 1 of 4

MSDS Ref. No.: 028221020

#### 5. FIRE-FIGHTING MEASURES

Flammable properties: May burn under fire conditions.

Suitable extinguishing media: Water spray, carbon dioxide, dry chemical, chemical foam.

**Explosion potential:** Dust at sufficient concentrations may form explosive mixtures with air.

**Explosive properties:** No information available. Hazardous combustion products: Toxic fumes may be produced.

Fire fighting procedures: Select appropriate method to surround and extinguish fire.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or Special protective equipment for

firefighters: equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

Wear personal protective equipment Personal precautions:

**Environmental precautions:** Do not flush into surface water or sanitary sewer system.

Methods for containment: Use good housekeeping practices. Clean up promptly by sweeping or vacuum.

Methods for cleaning up: Detergent and water.

#### 7. HANDLING AND STORAGE

Handling: Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing. Wear chemical resistant gloves, long pants, and longsleeved shirt when applying. Do not contaminate water sources when disposing of equipment wash waters.

Storage: Store in original container in a safe place. Do not put concentrate or dilute into food or drink containers. Do not store diluted spray. Keep out of the reach of children.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	ACGIH:	OSHA:
Acephate	Not Listed	Not Listed

**Engineering controls** Use adequate ventilation to keep the airborne concentrations of this material below the recommended

exposure standard

Personal Protective Equipment

Eye/face protection: Safety glasses with side shields or goggles.

Skin and body protection: Wear suitable protective clothing if contact is anticipated during manufacturing. Chemical resistant gloves. Respiratory protection: If airborne levels are high or product does not remain intact, use a combination of engineering controls

(e.g. ventilation) and personal protection (e.g. NIOSH/MSHA approved respirator for dusts, mists, and

fumes.

General hygiene considerations: Wash hands before breaks and immediately after handling the product.

Re-entry Interval:

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Solid Appearance: powder

White Mercaptan odour Color: Odor:

Solubility: Soluble Decomposition >300 F

temperature: Density: 18 lb/cu ft

# 10. STABILITY AND REACTIVITY

**Chemically Stable:** Yes

Conditions to avoid: Damp or wet conditions. Extreme heat. Materials to avoid: Avoid contact with other chemicals . Bases. Hazardous decomposition products: Toxic fumes and gases may be generated.

Possibility of hazardous reactions: Poses little or no immediate hazard.

### 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Revision date: 18-May-2005 Page 2 of 4

MSDS Ref. No.: 028221020

**LD50/oral:** 1494 mg/kg, rat **LD50/dermal:** >10.0 g/kg, rat

LC50/inhalation: >11.0 mg/L, (dust), rat Eye effects: Mild eye irritation, rabbit Skin effects: Slight irritation, rabbit Sensitization: No information available

**Chronic toxicity** 

Carcinogenic effects: The table below indicates whether each agency has listed any indgredient as a carcinogen.

Components	NTP:	IARC:	OSHA:	
Acephate	Not listed	Not listed	Not listed	

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea . Toxic if swallowed.

Inhalation: May cause irritation of respiratory tract. Organophosphorous pesticide: cholinesterase inhibitor, neurologic

and respiratory toxicity.

Target organ effects: Irritation. Nervous system.

# 12. ECOLOGICAL INFORMATION

Ecotoxicity effects: This pesticide is toxic to birds, mammals, fish and aquatic invertebrates. Highly toxic to bees exposed to

direct treatment or residues on blooming crops or weeds. Do not apply or allow drift to blooming crops or

weeds if bees are visiting treatment area.

Persistence and degradability: Inherently biodegradable.

Bioaccumulative potential: Does not bioaccumulate.

Mobility: Water contaminating.

**Aquatic toxicity:** No information available. Toxic to fish and other water organisms.

Additional ecological information: Do not contaminate water sources when disposing of equipment washwaters. Do not apply directly to

lakes, streams, or ponds.

### 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: If partially filled, call the local solid waste agency or 1-800-CLEANUP for disposal instructions. Do not

place product down any indoor or outdoor drain.

Contaminated packaging: If empty, place in trash or offer for recycling if available.

### 14. TRANSPORT INFORMATION

The description shown may not apply to all situations. Consult 49 CFR, or appropriate dangerous goods regulations for additional description requirements (e.g. technical name) and mode-specific or quantity-specific shipping requirements.

DOT

Proper shipping name: Not regulated

### 15. REGULATORY INFORMATION

Γ	Components	CAS-No	CERCLA/SARA 313	CERCLA/SARA 302
/	Acephate	30560-19-1	Not Listed	Not Listed

General Information Contact local authorities for disposal of large quantities of product

### 16. OTHER INFORMATION

NFPA:Health:1Flammability:1Reactivity:0HMIS:Health:1Flammability:1Reactivity:0

Hazard Rating: 0=Least; 1-Slight; 2=Moderate; 3=High; 4=Severe

**EPA FIFRA Comment:** Use of this product is regulated by the U.S. Environmental Protection Agency (EPA) through the approved product label. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Revision date: 18-May-2005 Page 3 of 4

MSDS Ref. No.:

028221020

**General comment:** This document contains health, safety, and environmental information useful to emergency response agencies, health care providers, manufacturers, and workers/employees. It does not replace the precautionary language, use directions, or the storage and disposal information found on the product label.

Revision date: 18-May-2005

Additional Information: This information contained herein is, to the best of Scott's knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and Scotts shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, Scotts shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

Revision date: 18-May-2005 Page 4 of 4