

MATERIAL SAFETY DATA SHEET

 Date stamp:
 01-Sep-2005
 MSDS Ref. No.:
 035516030
 Revision Number: 6

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: ORTHO® Orthenex® Insect & Disease Control Concentrate

Description: Insecticide, Fungicide

Company 24-HOUR EMERGENCY TELEPHONE NUMBERS:

The Scotts Company
14111 Scottslawn Road
Marysville, OH 43041

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

EPA Registration No.: 239-2594

Formula No.: S5617

2. HAZARDS IDENTIFICATION

Labelling

Signal word: DANGER.

<u>Precautionary Statement.</u>

Causes irreversible eye damage. Skin irritation. Do not get in eyes. Wear goggles. May be harm if

swallowed or absorbed through the skin. Avoid contact with eyes, skin, and clothing. Wash with soap and water after handling. Wear long pants, long-sleeved shirt, socks, shoes, and chemical resistant gloves when handling or applying product. Remove contaminated clothing and wash before reuse. Keep out of

reach of children.

Potential health effects

Eye contact: Risk of serious damage to eyes.

Skin contact: Contact causes severe skin irritation and possible burns.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Also toxic if swallowed.

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, InhalationTarget organ effects:Irritation. Nervous system.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No	Weight %
Hexakis (Fenbutatin-Oxide)	13356-08-6	0.75
Triforine	26644-46-2	3.25
Acephate	30560-19-1	4
Inert Ingredients	PROPRIETARY	92

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.

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

eyes. Remove all sources of ignition.

5. FIRE-FIGHTING MEASURES

Flammable properties: Flammable liquid.

Suitable extinguishing media:Water spray, carbon dioxide, dry chemical, chemical foam. **Explosion potential:**May form explosive vapor-air mixtures above flash point.

Explosive properties: Explosive vapor could form. **Hazardous combustion products:** Toxic fumes may be produced.

Specific hazards: Risk of ignition.

Fire fighting procedures: Select appropriate method to surround and extinguish fire. Flood with water to cool containers.

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

firefighters: equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:Wear personal protective equipmentEnvironmental precautions:Prevent product from entering drains

Methods for containment: Extinguish all ignition sources. Control spill with dykes and absorb with inert absorbant material. Cover or

soil-incorporate spills.

Methods for cleaning up: Detergent and water.

7. HANDLING AND STORAGE

Handling: Do not use near an ignition source. Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing. Wear chemical resistant gloves, long pants, and long-sleeved 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. Store away from heat or open flame. 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
Triforine	Not Listed	Not Listed
Hexakis (Fenbutatin-Oxide)	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: Respiratory protection:Wear suitable protective clothing if contact is anticipated during manufacturing. Chemical resistant gloves.

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: When dry.

9. PHYSICAL AND CHEMICAL PROPERTIES

 Physical State:
 Liquid
 Appearance:
 Clear

 Color:
 Amber
 Solubility:
 Miscible

 Specific gravity:
 0.96 g/cc
 Flash point:
 121° F

 Method:
 TAG CC

10. STABILITY AND REACTIVITY

Chemically Stable: Yes

Conditions to avoid: Keep away from open flames, hot surfaces and sources of ignition.

Materials to avoid: Oxidising agents.

Hazardous decomposition products: Toxic fumes and gases may be generated.

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

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD50/oral: 1.06 g/kg, rat

LC50/inhalation: >5.4 mg/L, (vapor), rat Eye effects: Severe eye irritation, rabbit Skin effects: Severe skin irritation, rabbit Sensitization: No sensitization, guinea pig

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
Triforine	Not listed	Not listed	Not listed
Hexakis (Fenbutatin-Oxide)	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

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and respiratory toxicity.

Irritation. Nervous system. Target organ effects:

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: 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.

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.

Consumer Commodity, ORM-D Proper shipping name:

15. REGULATORY INFORMATION

Components	CAS-No	CERCLA/SARA 313	CERCLA/SARA 302
Acephate	30560-19-1	Not Listed	Not Listed
Triforine	26644-46-2	Not Listed	Not Listed
Hexakis (Fenbutatin-Oxide)	13356-08-6	Not Listed	Not Listed

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

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16. OTHER INFORMATION

NFPA:Health: 3Flammability: 2Reactivity: 0HMIS:Health: 3Flammability: 2Reactivity: 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.

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.

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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.

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