



MATERIAL SAFETY DATA SHEET

Date stamp: 04-May-2009

MSDS Ref. No.: 016811025

Revision Number: 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: ORTHO® Volck® Oil Spray Dormant Season Insect Killer Concentrate

Description: Horticultural Oil

Company

The Scotts Company LLC
14111 Scottslawn Road
Marysville, OH 43041

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

EPA Registration No.: 239-16

Formula No.: S0710

Product Number(s): 016811025, 016816031

2. HAZARDS IDENTIFICATION

Labelling

Signal word:

CAUTION

Precautionary Statements

Harmful if swallowed. Harmful if absorbed through the skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes, skin, and clothing. Avoid breathing spray mist or vapors. Wash with soap and water after handling. Remove contaminated clothing and wash before reuse. Keep out of reach of children.

Potential health effects

Eye contact:

May cause slight irritation.

Skin contact:

Irritation not expected.

Ingestion:

Considered practically non-toxic. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Inhalation:

May cause irritation of respiratory tract.

Aggravated Medical Conditions:

Inhalation may aggravate asthma.

Principle routes of exposure:

Skin, Eyes, Inhalation

Target organ effects:

Irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No	Weight %
Mineral Oil	64742-55-8	97
Inert Ingredients	PROPRIETARY	3

Comments: Contains petroleum distillates.

4. FIRST AID MEASURES

Eye contact:

Hold eye open and rinse 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 by 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, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice

Notes to physician:

Do not induce vomiting: contains petroleum distillates and/or aromatic solvents. Aspiration may cause pulmonary oedema and pneumonitis.

5. FIRE-FIGHTING MEASURES

Flammable properties:	May burn under fire conditions.
Suitable extinguishing media:	Water spray, carbon dioxide, dry chemical, chemical foam.
Explosion potential:	Closed containers may rupture violently under fire conditions.
Explosive properties:	No information available.
Hazardous combustion products:	Toxic fumes may be produced.
Fire fighting procedures:	Select appropriate method to surround and extinguish fire. Contain run-off as ingredients may be toxic to aquatic organisms.
Special protective equipment for firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear personal protective equipment
Environmental precautions:	Prevent product from entering drains
Methods for containment:	Control spill with dykes and absorb with inert absorbant material.
Methods for cleaning up:	Detergent and water.

7. HANDLING AND STORAGE

Handling: Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing.

Storage: Keep containers tightly closed in a cool, well-ventilated place. Store in original container in a safe place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	ACGIH:	OSHA:
Mineral Oil	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	Eye/face protection is not required, but is recommended in manufacturing situations where contact may occur. 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:	When dry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Color:	Yellow
Flash point:	360° F	Autoignition temperature:	>500 °F
Boiling point/range:	540° F	Evaporation rate:	<0.01 (n-Butyl Acetate = 1)
Odor:	Petroleum	Solubility:	Water solubility, Miscible
Specific gravity:	0.84	Vapor density:	>5 (Air = 1)
Vapor pressure:	<0.01 mm Hg		

10. STABILITY AND REACTIVITY

Chemically Stable:	Yes
Conditions to avoid:	Keep away from heat and ignition sources.
Materials to avoid:	Oxidizing agent.
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**

LD50/oral: >5.0 g/kg, rat
LD50/dermal: >5.0 g/kg, rabbit
LC50/inhalation: >2.0 mg/L, (vapor), rat
Eye effects: Moderate eye irritation, rabbit
Skin effects: Non-irritating to the skin, rabbit

Chronic toxicity

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

Components	NTP:	IARC:	OSHA:
Mineral Oil	Not listed	1	Present

Ingestion: Ingestion may cause irritation to mucous membranes.
Inhalation: May cause irritation of respiratory tract.
Target organ effects: Irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects: Toxicity to fish.
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: Read and follow label instructions. If partially filled, call the local solid waste agency for disposal instructions. Do not place product down any indoor or outdoor drain.
Contaminated packaging: Read and follow label instructions. If empty, place in trash or offer for recycling if available. Do not re-use empty containers.

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 (Land) Not DOT regulated
DOT (AIR) Not DOT regulated
DOT (Vessel) Not DOT regulated

15. REGULATORY INFORMATION

Components	CAS-No	CERCLA/SARA 313	CERCLA/SARA 302
Mineral Oil	64742-55-8	Not Listed	Not Listed

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

16. OTHER INFORMATION

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

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.