

# SAFETY DATA SHEET

## 1) Product and Company Identification

Product Name:

**Orange Guard Home Pest Control 1L (PCP# 32430)**

**Orange Guard Home Pest Control Refill (PCP# 32431)**

Use: Pest Control Product Bio-pesticide

Active Ingredient: d-Limonene

CAS #: 5989-27-5 @ 5.8%

Manufacturer:

Orange Guard, Inc.

3340 Paul Davis Drive, Ste. A

Marina, CA 93933 USA

(831) 384-3217

**Supplied by:**

Upper Canada Organic Products, Inc.

15 Cardigan Rd

Toronto, ON M8Z 2V8

888-233-3208 toll free Canada

## 2) Composition and Information on Ingredients

Composition

CAS Registry #: 5989-27-5 (d-Limonene, 5.8%)

CAS Registry Names: Citrus Terpenes, Orange Terpenes, Menthadiene

The active ingredient is d-Limonene (solvent). This is a steam distilled byproduct of citrus peels, entirely of natural origin. Orange Guard is water based and all ingredients are classified food grade and G.R.A.S. (generally recognized as safe).

## 3) Hazards Identification

**Emergency Overview:** This material is a bio-insecticide. Acute exposure may result in mild transient ocular or dermal irritation.

TLV and Source: None Established by ACGIH or OSHA

Acute Effects

Inhalation: None known to exist

Swallowing: None Required

Skin Absorption: Not known to exist

Skin/Eye Contact: Transient irritation may occur

Chronic Health Effects: Not known to occur

Carcinogenicity: Not considered a carcinogen by the NTP, IARC or the OSHA

#### **4) First Aid Measures**

Ingestion: Drink water. Call doctor for treatment advice if any symptoms arise. Have container, product name and PCP# available when seeking medical advice. All ingredients are food grade.

Inhalation: Move person to fresh air if having trouble breathing.

Skin Contact: Wash with soap and water after exposure

Eye Contact: Remove contact lenses. Slowly rinse eye with water, see physician if irritation persists

Medical conditions may be aggravated by exposure due to citrus allergies

#### **5) Fire and Explosion Data**

Flash Point: > 199 degrees F.

Flammability: No data found

Flammable Limits in Air % by Volume: No data found

Special Fire Fighting Procedures: No special requirements

Unusual Fire Explosion or Reactivity Hazard: None known to exist

Extinguishing Media: No special requirements

Hazardous Combustion Product: None known

#### **6) Accidental Release Measures**

Spill/Leak Clean-up Procedures:

Small spills may be wiped up. Large spills should be absorbed by dirt, sand, or other suitable absorbents for disposal according to federal, provincial, or local regulations.

Disposal Method: Dispose of with liquid waste according to federal, provincial, and local regulations.

#### **7) Handling and Storage**

**Precautions:** Keep Out Of Reach Of Children

May cause eye and skin irritation. May cause skin sensitization. Avoid contact with skin and eyes. Avoid breathing spray mists.

Storage: Store in a cool area. Avoid freezing temperatures as damage to container may happen.

#### **8) Exposure Controls/Personal Protection**

Ventilation: Local exhaust as necessary

Personal Protection :

Respiratory Protection: None required under usual conditions of use.

Eye Protection: Safety glasses with side shields or goggles.

Skin Protection: Gloves are recommended.

#### **9) Physical and Chemical Properties**

Appearance: White, Opalescent

Odour: Citrus like

Melting/Freezing Point: No data found

Boiling Point: 99-100 degrees C.

Specific Gravity: 0.9753 g/ml  
Water Solubility: Readily soluble  
pH: 6.1  
Vapor Pressure: 0.82 @ 100 degrees F.  
Vapor Density: Not volatile  
% Volatiles/Volume: Not Available  
Evaporation Rate: Not volatile  
Viscosity: 1.97 centipoise @ 100 degrees F.  
Miscibility: Completely in all proportions  
Auto ignition Temp. No data found  
Flammable Limits: No data found

## 10) Stability and Reactivity

Stability: Stable  
Hazardous Polymerization: Will not occur  
Conditions to Avoid: None Known  
Incompatible Materials: None Known  
Hazardous Combustion or Decomposition Products: None Known

## 11) Toxicological Data

**General Information:** The active ingredient is d-Limonene. This is a steam distilled by-product of citrus peels, entirely of natural origin. Orange Guard is water based and all ingredients are classified food grade and G.R.A.S. (generally recognized as safe).

Acute Toxicity

Acute oral LD50 > 5g/kg body weight; classified toxicity category 4 for oral effects in accordance to EPA/FIFRA regulations.

Acute dermal LD50 > 5g/kg body weight; classified toxicity category 4

Acute Inhalation LC50 > 5.21mg/liter of air for a 4 hour period. All animals survived study in apparent good health and exhibited normal weight gains during the 14 day study. No Gross changes were observed in any animals at terminal necropsy.

Primary Eye Irritation Study: Classified in toxicity category 3 for eye effects meaning corneal involvement clearing in 7 days or less.

Primary Dermal Sensitization Study: Conclusion was Orange Guard tested neat and would not be considered a dermal sensitizing agent.

Primary Dermal Irritant Study: Classified in toxicity category 4

DOT Corrosive: No

Primary route of entry: Contact

Symptoms of Ingestion: No effects of exposure expected

Symptoms of Inhalation: No effects of exposure expected

Symptoms of Skin Contact: No effects of exposure expected

Symptoms of Eye Contact: Mild irritation

Mutagenicity: None

Reproductive Toxicity: None

Miscellaneous Toxicity: No data found

## **12 Ecological Information**

**General Information:** The active ingredient is d-Limonene. This is a steam distilled by-product of citrus peels, entirely of natural origin. Orange Guard is water based and all ingredients are classified food grade and G.R.A.S. (generally recognized as safe).

**Ecological Toxicity Data:** This product may be hazardous to aquatic invertebrates. Do not apply directly to water. Biodegradable and does not bio-accumulate. No adverse effects.

## **13) Disposal Considerations**

**General Information:** Dispose of product containers and waste product in accordance with provincial regulations and label instructions.

Never place unused product down any indoor or outdoor drains.

## **14) Transportation Information**

UN Number: None

TDG Classification: None

Packing Group: Not Applicable

Special Shipping Instructions: Not Applicable

Hazardous Ingredients: None

## **15) Regulatory Information**

**Federal Regulations:** This pest control product is subject to the Pest Control Products Act.

## **16) Other Information**

**Supplemental Information:** The information and recommendations contained herein are based on data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made by Upper Canada Organic Products, Inc. with respect to the information contained herein.

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