

SAFETY DATA SHEET

Section 1) Product and Company Identification

Orange Guard, Inc.
3340 Paul Davis Drive, Ste. A
Marina, CA 93933
24 Hour Emergency Chemtrec (800) 424-9300

Trade Name: Orange Guard (EPA Reg.# 61887-1)
Orange Guard Fire Ant Control (EPA Reg.# 61887-2)
Orange Guard for Ornamental Plants (EPA Reg.# 61887-3)

Section 2) Hazards Identification

None

3) Composition / Information on Ingredients

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 by-product of citrus peels, entirely of natural origin.
Orange Guard is water based and all ingredients are classified foodgrade and G.R.A.S. (generally recognized as safe) by FDA.

4) First Aid Measures

Emergency First Aid Procedures

First Aid for Ingestion:	None required
First Aid for Inhalation:	None Required
First Aid for Skin Contact:	Wash with soap and water after exposure
First Aid for Eye Contact:	Rinse eye with water, see physician if irritation persists
Medical Conditions Aggravated by Exposure:	Possibly citrus allergies
Exposure Limits:	Exempt
Other Toxicity	
Tumorigenicity:	None

5) Firefighting Measures

Fire Fighting Media:	Use media for primary cause of fire
Special Fire Fighting Procedures:	None known
Fire Explosion Hazards:	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, State, or Local regulations.
Disposal Method: Dispose of with liquid waste according to Federal, State, and Local regulations

EPA Hazardous Substance Reportable Quantity:	Not listed
RCRA Class:	Not regulated

7) Handling and Storage

Respiratory Protection: None Required
Eye Protection: Safety Glasses
Skin Protection: None required
Personal Hygiene: Observe ordinary measures of hygiene

9) Physical and Chemical Properties

Boiling Point: 99-100 degrees C.
Vapor Pressure: 0.82 @ 100 degrees F.
Vapor Density: Not volatile
Water Solubility: Readily soluble
Melting/Freezing Point: No data found
Appearance: White, Opalescent
Specific Gravity: 0.9753 g/ml
Evaporation Rate: Not volatile
PH: 6.1
Viscosity: 1.97 centipoise @ 100 degrees F.
Miscibility: Completely in all proportions
Odor: Citrus like
Flash Point: > 199 degrees F.
Auto ignition Temp. No data found
Flammable Limits: No data found

10) Stability and Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur
Incompatible Materials: None Known
Hazardous Decomposition Products: None Known

11) Toxicological Data

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

This product may be hazardous to aquatic invertebrates. Do not apply directly to water.
Biodegradable,
Does not bioaccumulate
No adverse effects

13) Disposal Considerations

Recycle empty containers, if partially filled: Call your local waste agency for disposal instructions. Never place unused product down any indoor or outdoor drains.

14) Transportation Information

Domestic Data
DOT Shipping Name: Not regulated
DOT Hazard Class: Not regulated
Hazardous Ingredients: None
UN Number: None
Export Data
Export Shipping Name: Not regulated
Export Hazard Class: Not regulated
Hazardous Ingredients: None
UN Number: None

15) Regulatory Information

All ingredients on FDA GRAS list (generally recognized as safe)
EPA registered, non-hazardous
May be used around food humans, and pets

16) Other Information

NFPA (National Fire Protection Association) - Classification

Health 0 minimal
Flammability 0 not
Instability or Reactivity 0 minimal

Effective Date 5/21/2018

The information herein is given in good faith but no warranty is expressed or implied.