

MATERIAL SAFETY DATA SHEET

EcoADJUVANT

SPREADER - EMULSIFIER

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200, the EU Directive, 91/155/EEC and other regulatory requirements.

1. COMPANY & PRODUCT IDENTIFICATION

Product: EcoADJUVANT Spreader-Emulsifier
Manufacturer: EcoSMART Technologies, Inc.
318 Seaboard Lane, Suite 208, Franklin, TN 37067

For General Information: (888) 326-7233 (9am to 5pm CST)

Emergency Telephone Number:
InfoTrac Response System (800) 535-5053 (24 hours)

2. INGREDIENTS

2,6,8 - Trimethyl-4-nonyloxypropyleneoxyethanol (active ingredient)

% by weight: 50.00%
CAS: 60828-78-6
Exposure Limits: None established

Proprietary Solvent Blend (inert ingredient)

% by weight: to 100%
CAS: Not Applicable
Exposure Limits: None established

3. HAZARDS IDENTIFICATION

Overview: Clear, Colorless liquid with very faint aromatic odor.
Potential Health Effects: May cause eye irritation. Prolonged exposure may cause drying of skin.
Flammable: Do not use or store near heat or open flame.

4. FIRST AID MEASURES

IF SWALLOWED: Rinse mouth out with water. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek medical attention if feeling sick or nauseous.

IF INHALED: Remove exposed person to fresh air.

IF ON SKIN OR CLOTHING: Rinse the skin immediately with soap and water.

IF IN EYES: 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. Seek medical attention if irritation persists. Call a poison control center or doctor for treatment advice.

5. FIRE FIGHTING MEASURES

Flashpoint: Not determined but all ingredients have flashpoints greater than 200°F (93°C) (TCC)

Flammable Limits: Not tested

Extinguishing Media: Use Foam, Carbon Dioxide, or Dry Chemical extinguishers.

Fire and Explosion Hazards: Combustible liquid

Special Fire Fighting Procedures: None

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, smoke, fumes, and unburned hydrocarbons and terpenes

6. SPILL/LEAK PROCEDURES

If spilled, absorb liquid with an inert absorbent material and dispose of the empty container and absorbent material in accordance with local ordinances.

7. HANDLING & STORAGE

Store in a cool, dry place. Do not allow to freeze. Do not smoke or eat in the product handling area. Keep out of the reach of children and animals.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Ventilation: Local exhaust ventilation is not required.

Respiratory Protection: Not required with adequate ventilation. If ventilation is poor or if treating large volumes, wear a properly fitted half-face or full-face air-purifying respirator which is approved for pesticides (NIOSH/MSHA in U.S.).

Eye Protection: Not required. Safety glasses or chemical goggles are recommended.

Gloves: Not required. Nitrile, Neoprene, or natural rubber gloves are recommended.

Other Protective equipment: Not required.

9. PHYSICAL PROPERTIES

Appearance: Clear colorless liquid.

10. STABILITY & REACTIVITY

Chemical Stability: Stable **Hazardous Polymerization:** Will not occur

11. TOXICOLOGICAL INFORMATION

Rat Acute Oral: Unknown (not tested)

Acute effects from Overexposure: Prolonged contact with the skin may cause irritation and contact with the eyes may cause eye irritation. Inhalation of the vapor may cause irritation of nasal passages and/or dizziness. Ingestion of this product could result in irritation of the gastrointestinal tract, headache or nausea.

Chronic Effects from Overexposure: No data are available.

Carcinogenicity: NTP: No OSHA: No

12. ENVIRONMENTAL INFORMATION

While specific data regarding toxicity to fish or other aquatic organisms is not available for this product, care should always be taken to prevent pesticides from entering aquifers.

13. DISPOSAL

Do not reuse empty container. Triple rinse empty container then puncture container and recycle if possible. If recycling is not possible, triple rinse empty container then puncture container and dispose of container in a sanitary landfill, or incinerator, or if allowed by state and local regulations, by burning. If burned, stay out of smoke.

14. TRANSPORTATION INFORMATION

Ground: Not DOT regulated in available quantities (ref: CFR 49 § 173.150 (f))

Air or International: Not regulated.

Reportable Quantity: A Reportable Quantity (RQ) has not been established for this material.

15. REGULATORY INFORMATION

NFPA Ratings: Health - 1 Fire - 2 Reactivity - 0 Special - none

SARA Title III: This product does not contain any ingredients subject to Section 313 (40 CFR 372) reporting requirements.



EcoSMART
Technologies, Inc.

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URL: www.ecosmart.com

Revised February 21, 2005

MATERIAL SAFETY DATA SHEET

EcoEXEMPT® D DUST INSECTICIDE

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200, the EU Directive, 91/155/EEC and other regulatory requirements.

1. COMPANY & PRODUCT IDENTIFICATION

Product: EcoEXEMPT® D Dust Insecticide UPC Code: 9000220501
Manufacturer: EcoSMART Technologies, Inc.
318 Seaboard Lane, Suite 208, Franklin, TN 37067
For General Information: (888) 326-7233 (9am to 5pm CST)
Emergency Telephone Number:
InfoTrac Chemical Response System (800) 535-5053 (24 hours)

2. INGREDIENTS

Plant Essential Oils (2-Phenethyl Propionate)	Other Ingredients
% by weight: 4.50%	% by weight: 93.75%
CAS: 122-70-3	CAS: None
Exposure Limits: None established	Exposure Limits: None established
(Eugenol [Clove Oil])	
% by weight: 1.75%	
CAS: 97-53-0	
Exposure Limits: None established	

3. HAZARDS IDENTIFICATION

Overview:

- White amorphous dust with a faint scent
- Burning may produce toxic by-products.

Potential Health Effects: Prolonged exposure to this product may cause dry skin, eye irritation, and drying of the nasal passages.

4. FIRST AID MEASURES

Eyes: Flush with water for at least 15 minutes. Seek medical attention if irritation persists.

Skin: Wash exposed area with soap and water.

Inhalation: Move exposed person(s) to fresh air.

Ingestion: Rinse mouth out with water. Do not induce vomiting. Seek medical attention if feeling sick or nauseous.

5. FIRE FIGHTING MEASURES

Flammable Limits: Not applicable

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam or Water

Fire and Explosion Hazards: This product is slightly combustible.

Special Fire Fighting Procedures: None

Hazardous Decomposition Products: Thermal decomposition may produce carbon monoxide and carbon dioxide.

6. SPILL/LEAK PROCEDURES

Should the product be spilled, it may be swept up or vacuumed for disposal. Dispose of the spilled material and container in accordance with local ordinances.

7. HANDLING & STORAGE

Store in a cool, dry place. Avoid excessive heat. Keep out of the reach of children and animals. Do not contaminate with other pesticides.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Ventilation: Local exhaust ventilation is not required. If large quantities (greater than 18 lbs. of dust) are used indoors during a single application, ensure adequate mechanical ventilation.

9. EXPOSURE CONTROL/PERSONAL PROTECTION cont.

Respiratory Protection: Not required with adequate ventilation. If ventilation is poor and large quantities are being applied (greater than 18 lbs. of dust), wear a properly fitted half-face or full-face air-purifying respirator which is approved for pesticides (NIOSH/MSHA in U.S.).

Eye Protection: Not required. Safety glasses are recommended during application.

Gloves: Not required.

Other Protective Equipment: Not required.

9. PHYSICAL PROPERTIES

Appearance: White powder (40-100 mesh)

Odor: Floral scent

Weight per volume: 30.36 lbs./Cu ft.

10. STABILITY & REACTIVITY

Chemical Stability: Stable

Hazardous Polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

Rat Acute Oral: LD50 > 5000 mg/kg

Acute effects from Overexposure: This product has low oral and dermal toxicity. Prolonged contact with the skin may cause dryness, and contact with the eyes may cause eye irritation. Inhalation of the dust may cause irritation of the nasal passages and lungs. Ingestion of this product could result in irritation of the gastrointestinal tract.

Chronic Effects from Overexposure: No data is available.

Carcinogenicity: NTP: No OSHA: No

12. ENVIRONMENTAL INFORMATION

While specific data regarding toxicity to fish or other aquatic organisms is not available for this product, care should always be taken to prevent pesticides from entering aquifers.

13. DISPOSAL

When container is empty, recycle if available. If recycling is not possible, rinse the container with water and dispose of with ordinary trash.

14. TRANSPORTATION INFORMATION

Proper Shipping Name: Consumer Commodity

DOT Hazard Class: Not regulated

15. REGULATORY INFORMATION

NFPA Ratings: Health - 1 Fire - 1 Reactivity - 0 Special - none

SARA Title III: This product does not contain any ingredients subject to Section 313 (40 CFR 372) reporting requirements.

This product has not been registered by the United States Environmental Protection Agency. EcoSMART Technologies, Inc. represents that this product qualifies for exemption from registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).



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MATERIAL SAFETY DATA SHEET

EcoEXEMPT® G GRANULAR INSECTICIDE

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200, the EU Directive, 91/155/EEC and other regulatory requirements.

1. COMPANY & PRODUCT IDENTIFICATION

Product: EcoEXEMPT® G Granular Insecticide UPC Code: 900223501

Manufacturer: EcoSMART Technologies, Inc.
318 Seaboard Lane, Suite 208, Franklin, TN 37067

For General Information: (888) 326-7233 (9am to 5pm CST)

Emergency Telephone Number:
InfoTrac Chemical Response System (800) 535-5053 (24 hours)

Plant Essential Oils (Eugenol)

% by weight: 2.90%
CAS: 97-53-0
Exposure Limits: None established

(Thyme Oil)

% by weight: 0.60%
CAS: 8007-46-3
Exposure Limits: None established

Other Ingredients

% by weight: 93.75%
CAS: None
Exposure Limits: None established

Overview:

- Brown granules with a faint scent
- The product is slightly combustible. Keep away from open flames.
- Burning may produce toxic by-products.

Potential Health Effects: Avoid breathing dust and contact with eyes - prolonged exposure to this product may cause dry skin, eye irritation, and drying of the nasal passages.

Eyes: Wash with plenty of water. Seek medical attention if irritation persists.

Skin: Wash with soap and water

Inhalation: Remove exposed person(s) to fresh air.

Ingestion: Rinse mouth out with water. Do not induce vomiting. Seek medical attention if feeling sick or nauseous.

Flashpoint: Not applicable

Flammable Limits: Not tested

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam or Water

Fire and Explosion Hazards: This product is slightly combustible.

Special Fire Fighting Procedures: None

Hazardous Decomposition Products: Thermal decomposition may produce carbon monoxide and carbon dioxide.

Should the product be spilled, it may be swept up or vacuumed for disposal. Dispose of the spilled material and container in accordance with local ordinances.

Store in a cool, dry place. Avoid excessive heat. Keep out of the reach of children and animals. Do not contaminate with other pesticides.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Ventilation: Local exhaust ventilation is not required.

Respiratory Protection: Not required with adequate ventilation.

Eye Protection: Not required.

Gloves: Not required.

Other Protective Equipment: Not required.

APPEARANCE AND ODOR

Appearance: Brown granules

Odor: Faint scent

Weight per volume: 34 lbs/cu ft

Chemical Stability: Stable

Hazardous Polymerization: Will not occur

Rat Acute Oral: LD50 > 5000 mg/kg

Acute effects from Overexposure: This product has low oral and dermal toxicity. Prolonged contact with the skin may cause dryness, and contact with the eyes may cause eye irritation. Inhalation of the dust may cause irritation of the nasal passages and lungs. Ingestion of this product could result in irritation of the gastrointestinal tract.

Chronic Effects from Overexposure: No data is available.

Carcinogenicity: NTP: No OSHA: No

While specific data regarding toxicity to fish or other aquatic organisms is not available for this product, care should always be taken to prevent pesticides from entering aquifers.

When container is empty, recycle if possible, or dispose of with ordinary trash.

Proper Shipping Name: Consumer Commodity

DOT Hazard Class: Not regulated

Ground: Not a DOT hazardous material

Reportable Quantity: A Reportable Quantity (RQ) has not been established for this material

NFPA Ratings: Health - 1 Fire - 1 Reactivity - 0 Special - none

SARA Title III: This product does not contain any ingredients subject to Section 313 (40 CFR 372) reporting requirements.

This product has not been registered by the United States Environmental Protection Agency. EcoSMART Technologies, Inc. represents that this product qualifies for exemption from registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).



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MATERIAL SAFETY DATA SHEET

EcoEXEMPT® JET

Product: EcoEXEMPT® JET Wasp & Hornet Killer
Manufacturer: EcoSMART Technologies, Inc.
318 Seaboard Lane, Suite 208, Franklin, TN 37067

For General Information: (888) 326-7233 (9am to 5pm CST)

Emergency Telephone Number:
InfoTrac Chemical Response System (800) 535-5053 (24 hours)

Rosemary Oil (active ingredient)	Mineral Oil (inert ingredient)
% by weight: 3.00%	% by weight: 10-75%
CAS: 8000-25-7	CAS: 8042-47-5
Exposure Limits: None established	Exposure Limits: 5mg/m ³ (OSHA)
Phenethyl Propionate (active ingredient)	Carbon Dioxide (inert ingredient)
% by weight: 2.00%	% by weight: 2.0-6.0%
CAS: 122-70-3	CAS: 124-38-9
Exposure Limits: None established	Exposure Limits: TWA: 500ppm (OSHA)
Oil of Wintergreen (inert ingredient)	
% by weight: 10-75%	
CAS: 119-36-8	
Exposure Limits: None established	

Overview:

• Contents of container are under pressure. Exposure to temperatures above 130° F may cause bursting.

Potential Health Effects: Prolonged exposure to this product may cause dry skin, eye/nasal irritation, dizziness, headache or nausea.

IF IN EYES: Flush with plenty of water.

IF ON SKIN: Wash with soap and water.

IF INHALED: Move exposed person(s) to fresh air.

IF INGESTED: Rinse mouth out with water. Do not induce vomiting.

Seek medical attention if feeling sick or nauseous.

Flashpoint: Greater than 172°F (closed cup)

Flammable Limits: Not tested, but aerosol is combustible

Extinguishing Media: Carbon Dioxide, Dry Chemical or Foam

Fire and Explosion Hazards: Container contents are under pressure. Exposure to temperatures above 130°F could cause bursting.

Special Fire Fighting Procedures: Keep containers cool to prevent bursting.

Firefighters should have eye protection and wear self-contained breathing apparatus.

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, smoke, fumes, and unburned hydrocarbons and terpenes

Should the container begin to leak (if accidentally punctured for example) allow the contents to discharge completely in a well-ventilated area. When the contents have been completely discharged, absorb any liquid residue with an inert absorbent material and dispose of the empty container and absorbent material in accordance with local ordinances. Components of this product are not considered EPA hazardous wastes.

Store in a cool, dry place. Do not use or store near heat, flames or hot surfaces. Do not use product on or in electrical equipment. Foods and eating utensils should be removed or covered when this product is used. Food processing equipment should be covered and/or wiped down after use. No smoking or eating in the product handling area. Keep out of the reach of children and animals.

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200, the EU Directive, 91/155/EEC and other regulatory requirements.

Ventilation: Local exhaust ventilation is not required. If large quantities (greater than 24 cans) are used indoors during a single application, ensure adequate mechanical ventilation. **Respiratory Protection:** Not required with adequate ventilation. If ventilation is poor and large quantities are being applied (greater than 24 cans), wear a properly fitted half-face or full-face air-purifying respirator which is approved for pesticides (NIOSH/MSHA in U.S.). **Eye Protection:** Not required. Safety glasses are recommended **Gloves:** Not required. **Other Protective equipment:** Not required.

Appearance: Colorless liquid while in container—when discharged, colorless aerosol.
Odor: Floral scent

Chemical Stability: Stable **Hazardous Polymerization:** Will not occur
Conditions/Materials to Avoid (Incompatibility): Temperatures above 130°F and strong oxidizing agents

Rat Acute Oral: Not tested

Acute effects from Overexposure: Components of this have low oral and dermal toxicity. Prolonged contact with the skin may cause dryness, and contact with the eyes may cause eye irritation. Inhalation of the aerosol may cause irritation of nasal passages and/or dizziness. Ingestion of this product could result in irritation of the gastrointestinal tract, headache or nausea.

Chronic Effects from Overexposure: No data is available.

Carcinogenicity: **NTP:** No **OSHA:** No

While specific data regarding toxicity to fish or other aquatic organisms is not available for this product, care should always be taken to prevent pesticides from entering aquifers.

The aerosol container is not refillable. When container is empty, recycle if available. If recycling is not possible, wrap the container and dispose of with ordinary trash.

Proper Shipping Name: Consumer Commodity
DOT Hazard Class: ORM-D

NFPA Ratings: Health - 1 Fire - 2 Reactivity - 1 Special - none
SARA Title III: This product does not contain any ingredients subject to Section 313 (40 CFR 372) reporting requirements.

This product has not been registered by the United States Environmental Protection Agency. EcoSMART Technologies, Inc. represents that this product qualifies for exemption from registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).



EcoSMART
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Revised June 2004

MATERIAL SAFETY DATA SHEET

EcoEXEMPT™ IC²

INSECTICIDE
CONCENTRATE

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200, the EU Directive, 91/155/EEC and other regulatory requirements.

1. COMPANY & PRODUCT IDENTIFICATION

Product: EcoEXEMPT™ IC²
EPA Reg. No.: Exempt

Manufacturer: EcoSMART Technologies, Inc.
318 Seaboard Lane, Suite 208, Franklin, TN 37067

For General Information: (888) 326-7233 (9am to 5pm CST)

Emergency Telephone Number:
InfoTrac Chemical Response System (800) 535-5053 (24 hours)

2. INGREDIENTS

Rosemary Oil (active ingredient)		Mineral Oil	
% by weight:	10.0%	% by weight:	10 to 70%
CAS:	8000-25-7	CAS:	8042-47-5
Exposure Limits:	None established	Exposure Limits:	TWA: 5 mg/m ³ (OSHA)
Inert Essential Oils Blend			
% by weight:	10 to 70%		
Exposure Limits:	None established		

3. HAZARDS IDENTIFICATION

Overview:

- Clear very pale yellow liquid with a faint minty scent.

Potential Health Effects: Prolonged exposure to this product may cause skin irritation, eye/nasal irritation, dizziness, headache or nausea. State of California requires any product containing 8.5% or more of Rosemary Oil must at a minimum bear the signal word "Caution," the phrase "Keep Out of Reach of Children," appropriate precautionary language, and a requirement for protective eyewear and gloves.

4. FIRST AID MEASURES

Eyes: Flush with plenty of water. Seek medical attention if irritation persists.
Skin: Wash with soap and water.
Inhalation: Remove exposed person to fresh air.
Ingestion: Rinse mouth out with plenty of water. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek medical attention if feeling sick or nauseous.

5. FIRE FIGHTING MEASURES

Flashpoint (active ingredient): >145 degrees F (TCC)
Flammable Limits: Not tested
Extinguishing Media: Use Foam, Carbon Dioxide, or Dry Chemical extinguishers.
Fire and Explosion Hazards: The product is combustible.
Special Fire Fighting Procedures: None
Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, smoke, fumes, and unburned hydrocarbons and terpenes.

6. SPILL/LEAK PROCEDURES

If spilled, absorb liquid with an inert absorbent material and dispose of the empty container and absorbent material in accordance with local ordinances. Components of this product are not considered EPA hazardous wastes.

7. HANDLING & STORAGE

Keep container tightly closed when not in use. Store only in the original container in a cool, dry place. Do not smoke or eat in the product handling area. Keep out of the reach of children and animals.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Ventilation: Local exhaust ventilation is not required. If large quantities are handled indoors, ensure adequate mechanical ventilation.
Respiratory Protection: Not required with adequate ventilation. If ventilation is poor and large quantities are being handled, wear a properly fitted half-face or full-face air-purifying respirator which is approved for pesticides (NIOSH/MSHA in U.S.).
Eye Protection: Safety glasses or chemical goggles.
Gloves: Wear Nitrile, Neoprene, or natural rubber gloves.
Other Protective Equipment: Not required.

9. PHYSICAL PROPERTIES

Appearance: Clear very pale yellow liquid
Odor: Faint minty scent
Specific Gravity: (water =1): 1.0 g/ml

10. STABILITY & REACTIVITY

Chemical Stability: Stable
Hazardous Polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

Rat Acute Oral: Not Determined
Acute effects from Overexposure: Prolonged contact with the skin may cause irritation, and contact with the eyes may cause eye irritation. Inhalation of the vapor may cause irritation of nasal passages and/or dizziness. Ingestion of this product could result in irritation of the gastrointestinal tract, headache or nausea.
Chronic Effects from Overexposure: No data are available.
Carcinogenicity: NTP: No OSHA: No

12. ENVIRONMENTAL INFORMATION

While specific data regarding toxicity to fish or other aquatic organisms is not available for this product, care should always be taken to prevent pesticides from entering aquifers.

13. DISPOSAL

Do not reuse empty container. Triple rinse empty container then puncture container and recycle if possible. If recycling is not possible, triple rinse empty container then puncture container and dispose of container in a sanitary landfill, or incinerator, or if allowed by state and local regulations, by burning. If burned, stay out of smoke.

14. TRANSPORTATION INFORMATION

Ground: Not DOT regulated in available quantities (ref: CFR 49 § 173.150 (f))
Air: Aviation Regulated Liquid, N.O.S. (contains Rosemary Oil), Class 9, UN3334, PG III
International: Contact EcoSMART Technologies:
Telephone (888) 326-7233 (9am to 5pm EST)

15. REGULATORY INFORMATION

NFPA Ratings: Health - 1 Fire - 2 Reactivity - 0 Special - none
SARA Title III: This product does not contain any ingredients subject to Section 313 (40 CFR 372) reporting requirements.



EcoSMART
Technologies, Inc.

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Revised July 2005.

MATERIAL SAFETY DATA SHEET

EcoPCO WP-X

REGISTERED TRADE NAME OF THE MANUFACTURER
EcoSMART Technologies, Inc.
318 Seaboard Lane, Suite 208, Franklin, TN 37067

Product: EcoPCO WP-X Wettable Powder Insecticide
EPA Reg. No.: 67425-25
Manufacturer: EcoSMART Technologies, Inc.
318 Seaboard Lane, Suite 208, Franklin, TN 37067

For General Information: (888) 326-7233 (9am to 5pm CST)

Emergency Telephone Number:
InfoTrac Response System (800) 535-5053 (24 hours)

2-Phenethyl Propionate (active ingredient)		Thyme Oil (active ingredient)	
% by weight:	3.00%	% by weight:	5.00%
CAS:	122-70-3	CAS:	Not Applicable
Exposure Limits:	None established	Exposure Limits:	None established

Pyrethrins (active ingredient)		Proprietary Carrier Blend (inert ingredient)	
% by weight:	0.05%	% by weight:	to 100%
CAS:	121-21-1	CAS:	Not Applicable
Exposure Limits:	None established	Exposure Limits:	None established

Harmful if swallowed or inhaled. Causes moderate eye irritation. Avoid breathing dust. Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling.

IF SWALLOWED: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

IF INHALED: Remove person to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

IF ON SKIN OR CLOTHING: Take off the contaminated clothing. Rinse the skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.

IF IN EYES: 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.

Flashpoint: Not Applicable

Flammable Limits: Not tested

Extinguishing Media: Use Foam, Carbon Dioxide, or Dry Chemical extinguishers.

Fire and Explosion Hazards: Flammable

Special Fire Fighting Procedures: None

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, smoke, fumes, and unburned hydrocarbons and terpenes

If spilled, sweep up and dispose of the empty container and contaminated material in accordance with local ordinances.

Keep container tightly closed when not in use. Store only in original container. Store in a cool, dry place. Do not smoke or eat in the product handling area. Keep out of the reach of children and animals.

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200, the EU Directive, 91/155/EEC and other regulatory requirements.

Ventilation: Local exhaust ventilation is not required. If large quantities are handled indoors, ensure adequate mechanical ventilation.

Respiratory Protection: Not required with adequate ventilation. If ventilation is poor or if treating large volumes, wear a properly fitted half-face or full-face air-purifying respirator which is approved for pesticides (NIOSH/MSHA in U.S.).

Eye Protection: Not required. Safety glasses or chemical goggles are recommended.

Gloves: Not required. Nitrile, Neoprene or natural rubber gloves are recommended.

Other Protective equipment: Not required.

Appearance: Grey powder

Chemical Stability: Stable **Hazardous Polymerization:** Will not occur

Rat Acute Oral: Unknown (not tested)

Acute effects from Overexposure: The individual components of this product are known to have low oral and dermal toxicity. This mixture is expected to have a similar toxicological profile. Prolonged contact with the skin may cause irritation. Contact with the eyes may cause eye irritation. Inhalation of the vapor may cause irritation of nasal passages and/or dizziness. Ingestion of this product could result in irritation of the gastrointestinal tract, headache or nausea.

Chronic Effects from Overexposure: No data are available.

Carcinogenicity: **NTP:** No **OSHA:** No

This product is toxic to fish. Do not apply directly to water. Do not contaminate water when disposing of equipment wash water or rinsate.

Do not reuse empty container. Triple rinse empty container and dispose of container in a sanitary landfill, or incinerator.

Ground: Not DOT regulated in available quantities (ref: CFR 49 § 173.150 (f))

Air or International: Contact EcoSMART Technologies: Telephone (888) 326-7233 (9am to 5pm CST)

Reportable Quantity: A Reportable Quantity (RQ) has not been established for this material.

NFPA Ratings: Health - 1 Fire - 0 Reactivity - 0 Special - none

SARA Title III: This product does not contain any ingredients subject to Section 313 (40 CFR 372) reporting requirements.



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Revised September 2004

Material Safety Data Sheet (MSDS)

MANUFACTURER: Green Dragon Pest Solutions, Inc.
515B Bartlett St., Macon, GA 31204

Telephone: (478) 742-8868
Fax: (478) 742-8869
EMERGENCY: (800) 255-3924 (24 Hours)

Product Trade Name: Green Dragon Roach Original Formula
Use: Bait for control of cockroaches
Composition: Orthoboric acid and food and feed-grade ingredients.

Common Name: paste insect bait with boric acid
EPA Est. No.: 084708-GA-001 **EPA Reg. No.:** 84708-1

1. HAZARDOUS INGREDIENTS

Material: Orthoboric acid (boric acid) – ca. 40% CAS# 10045-35-3

2. PHYSICAL PROPERTIES

Product Appearance: White or off-white putty.	Vapor Density (Air = 1): N/A
Odor: May be mildly grainy or savory	Vapor Pressure (mm Hg): N/A
Solubility: N/A	Water Reactivity: N/A
pH: Ca. 5.1 in 0.1M aqueous solution	Evaporation Rate (BuAc = 1): No information found
% Volatiles by volume @ 21°C (70 °F): ca. 0%	Viscosity: >20,000 cp

3. FIRE AND EXPLOSION HAZARD DATA

Flash Point: ca. 193 °C (ca. 379 °F) **Flammable Limit:** N/A **Auto Ignition Temp.:** ca. 400 °C (ca. 752 °F)
Extinguishing Media: Use agent most appropriate for extinguishing surrounding fire.
Special Instructions: Use fire-fighting steps appropriate for surrounding materials. Cool fire-exposed containers with water spray. Vapors may be heavier than air. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
Unusual Fire and Explosion Hazard: The fire and explosion hazards are considered minor. Boric acid is a flame-retardant.

4. HEALTH HAZARD DATA

Potential Health Effects: Hazard is considered low or even practically non-toxic for usual industrial handling.
Eye: May irritate eye. **Skin:** May irritate skin. **Ingestion:** Large amounts may irritate gastrointestinal tract or cause headache.
Inhalation: Inhaling a mist of this material may irritate respiratory tract **Primary Route(s) of Entry:** Ingestion.
Chronic: Ingesting very large quantities of boric acid may cause weight loss, vomiting, diarrhea, skin rash, convulsions and anemia, and may damage the liver and kidneys. Studies of dogs and rats have shown infertility and damage to testes can result from acute or chronic ingestion of boric acid. Evidence of toxic effects on the human reproductive system is inadequate.
Signs and Symptoms of Over-Exposure: Intentional consumption of 1 to 2 oz. (ca. 28 to 56 g) could cause gastro-intestinal symptoms.
Emergency and First Aid Procedures: In the event of a medical emergency call a poison control center or doctor immediately for treatment advice.
If Swallowed: Person should sip water if able to swallow. Do not induce vomiting unless directed by medical professional. Never give anything by mouth to an unconscious person.
If in Eye: Hold eye open, rinse gently with water 15-20 minutes. After first 5 minutes remove contact lens if present; continue rinsing eye.
If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

5. PERSONAL PROTECTION

For pesticidal application:	Respirator Type: Not required.	Ventilation: Not required.	Eye Protection: Not required.
	Gloves: Recommended.	Other Protective: Not required.	

6. STABILITY AND REACTIVITY

Stability: Stable in ordinary conditions of use and storage. Boric acid can be corrosive to iron if moisture is present. **Conditions to Avoid:** Excess heat.
Hazardous Decomposition Products: None. **Hazardous Polymerization:** Will not occur. **Incompatibilities (Materials to Avoid):** Strong alkali.

7. DISPOSAL AND RELEASE PROCEDURES

In the Event of a Spill or Leak: Scoop and wipe up, and dispose of in suitable container for reclamation or disposal, using a method that does not generate dust. Wear appropriate personal protective equipment as specified in Section 5.
Disposal: Waste may be disposed of on site or at an approved disposal facility. Follow requirements of the relevant Federal, State and Local laws.

8. HANDLING AND STORAGE

Storage Temperature: Room temperature or cooler. **Average Shelf Life:** Two years in original container.
Special Sensitivity (Heat, Light, Moisture): Avoid prolonged exposure to excessive heat.
Special Precautions: Store in sealed original container out of reach of children, pets or wildlife. Use good housekeeping practices to avoid accumulating dust and airborne particles. Wash hands after handling. Avoid ingestion and inhalation; avoid contact with eyes, clothing, and especially cut or abraded skin. For empty containers that retain dust or solids from product, observe all warnings and precautions for product.

9. TRANSPORTATION INFORMATION

Not regulated	DOT Shipping Name: None required.	DOT Hazard Classification: Non-Hazardous.
	DOT Labels Required: None Required.	Freight Classification: LTL Class 60.

Warranty Information: The information in this Material Safety Data Sheet is believed to be reliable but is provided only for your consideration and investigation. Green Dragon Pest Solutions Inc. (GDPS) assumes no responsibility for the accuracy or completeness of data contained herein, or for damages from use of or reliance on this information. GDPS provides no warranties, express or implied. Each user is responsible to ensure that they have all information relevant to their particular use.

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Revised: 4/7/97 F

MATERIAL SAFETY DATA SHEET

NIBAN[®] GRANULAR BAIT

Health Emergencies: CHEMTREC[®] (800) 424-9300

SECTION I - PRODUCT INFORMATION

Manufacturer: Nisus Corporation
100 Nisus Drive
Rockford, TN 37853
(800) 264-0870 FAX: (865) 577-5825

Product Trade Name: NIBAN GRANULAR BAIT

Product Class: Pesticide Bait

EPA Reg. No. 64405-2

Active Ingredient: Boric Acid CAS No.: 10043-35-3

Hazard Rating: NFPA Health 0

Fire 0

Reactivity 0

SECTION II - HAZARDOUS INGREDIENTS

None

SECTION III - PHYSICAL DATA

Appearance: Brown, Granular Particles

Specific Gravity: 0.62 Solubility in water: N/A

Volatile by weight: None Odor: None pH: N/A

SECTION IV - HEALTH HAZARD INFORMATION

EYE CONTACT: Avoid dust contact with eyes. May cause eye irritation.

SKIN CONTACT: Not an irritant.

INGESTION: This material may be harmful if swallowed.

INHALATION: Breathing dust may cause irritation of nose and throat.

Acute Oral LD₅₀ - Greater than 5000 mg/kg

Acute Dermal LD₅₀ - Greater than 2000 mg/kg.

Dermal irritation - Not a primary irritant

Dermal Sensitivity - Not a sensitizer.

SECTION V - EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush eyes for at least 15 minutes with clean water. Seek medical attention if irritation persists.

SKIN CONTACT: Wash with soap and water.

INGESTION: If more than one (1) to two (2) ounces are ingested, induce vomiting and seek medical attention.

INHALATION: Remove victim to fresh air. Contact a physician if warranted.

SECTION VI - REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Not Applicable

HAZARDOUS POLYMERIZATION: None

HAZARDOUS DECOMPOSITION PRODUCTS: On burning
See Fire Data.

SECTION VII - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: None

EXTINGUISHING MEDIA: CO₂ dry powder or universal type foam.

FIRE AND EXPLOSION HAZARDS: None

FIRE FIGHTING PROCEDURES: Burning product produces smoke, carbon dioxide and carbon monoxide. Self-contained breathing apparatus should be used.

SECTION VIII - SPILL OR LEAK PROCEDURES

IN CASE OF SPILL OR LEAK: Dispose of in approved landfill.

DISPOSAL METHOD: Disposal to landfill in accordance with federal, state and local regulations.

SECTION IX - SPECIAL HANDLING INFORMATION

Store in dry place.

RESPIRATORY PROTECTION: Dust mask.

VENTILATION: Exhaust to ventilate. If used in confined areas, use dust mask.

PROTECTIVE CLOTHING: None.

EYE PROTECTION: Use dust goggles.

OTHER PROTECTIVE EQUIPMENT: None.

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