

# Great Oak, Inc.

## Material Safety Data Sheet DeerPro Winter Animal Repellent

MSDS Number: GO01

Date 4/15/07

### SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product Name** DeerPro Winter Animal Repellent  
**MSDS Number** GO01  
**EPA Registration No.** 84178-1

Great Oak, Inc  
10 Great Oak Lane  
PO Box 1109  
Redding, CT 06875

For MEDICAL, TRANSPORTATION or other EMERGENCY call: INFOTRAC- (800) 535-5053  
For Product Information call: 1-877-486-DEER (1-877-486-3337)

### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Thiram	137-26-8	25.80

### SECTION 3. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

**Emergency Overview** Caution! Harmful if swallowed or absorbed through skin. Moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist.

**Physical State** liquid

**Appearance** green liquid

**Routes of Exposure** Inhalation, Ingestion, Skin Absorption, Eye contact

**Immediate Effects**

**Eye** Moderate eye irritation. Do not get in eyes.

**Skin** May cause skin irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Harmful if absorbed through skin. Avoid contact with skin and clothing.

**Ingestion** Use of alcoholic beverages may enhance toxic effects. Harmful if swallowed. Do not take internally.

**Inhalation** May cause irritation of the mucous membranes. May cause respiration tract irritation. Do not breathe vapors or spray mist.

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**Medical conditions  
Aggravated by Exposure** Individuals with allergic history or pre-existing dermatitis should use extra care in handling this product.

### SECTION 4. FIRST AID MEASURES

<b>General</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Eye</b>	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 physician or poison control center immediately.
<b>Skin</b>	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Call a physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse out mouth and give water in small gulps to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.
<b>Inhalation</b>	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
<b>Notes to Physician Signs and Symptoms</b>	Ingestion may provoke the following symptoms: nausea vomiting breathing difficulties More severe effects if alcohol is consumed.
<b>Treatment</b>	There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

### SECTION 5. FIRE FIGHTING MEASURES

<b>Flash Point</b>	>93.4 °C / > 200.1 °F
<b>Fire and Explosion Hazards</b>	Heating or fire can release toxic gas.
<b>Suitable Extinguishing Media</b>	foam, carbon dioxide (CO2), dry chemical, water spray

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### Fire Fighting Instructions

Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Dike area to prevent runoff and contamination of water sources. Equipment or materials involved in pesticide fires may become contaminated.

Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions

Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

### Methods for Cleaning Up

Take up with absorbent material (e.g. sand, diatomaceous earth or a proprietary absorbent material). Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.

### Additional Advice

Use personal protective equipment. Do not allow product to enter streams, sewers or other waterways.

## SECTION 7. HANDLING AND STORAGE

### Handling Procedures

Handle and open containers in a manner as to prevent spillage.

### Storage Procedures

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

### Work/Hygienic Procedures

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

Take off contaminated clothing and shoes immediately. Then wash thoroughly and put on clean clothing.

Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. As soon as practical, wash thoroughly and change into clean clothing.

### Min/Max Storage Temperatures

Do not transport or store below 0 °C / 32 °F  
Do not transport or store above 49 °C / 10 °F

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### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>General Protection</b>	Follow all label instructions. Train employees in safe use of the product.			
	Follow manufacture's instructions for cleaning/maintaining PPE. If no such instructions for washable, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.			
<b>Engineering Controls</b>	Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.			
<b>Eye/Face Protection</b>	tightly fitting safety goggles			
<b>Hand Protection</b>	Chemical resistant nitrile gloves			
<b>Body Protection</b>	Wear long-sleeved shirt and long pants and shoes plus socks.			
<b>Respiratory Protection</b>	When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or Industrial recommendations.			
<b>Exposure Limits</b>				
1,2-Propanediol	57-55-6	WEEL	TWA	10 mg/m3
		Form of Exposure	Aerosol.	
Urea	57-13-6	WEEL	TWA	10mg/m3

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	green liquid
<b>Physical State</b>	liquid
<b>pH</b>	7.64 (as a 1% w/w solution)
<b>Bulk Density</b>	1.123 g/ml
<b>Melting/Freezing Point</b>	-9.4 - -6.7 °C / 15.1 – 19.9 °F
<b>Water Solubility</b>	miscible

### SECTION 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable
<b>Conditions to Avoid</b>	Excessive heat and fire. Exposure to extreme cold.

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<b>Incompatibility</b>	strong acids and oxidizing agents copper
<b>Hazardous Decomposition Products</b>	In case of fire hazardous decomposition products may be produced such as: nitrogen oxides (NO <sub>x</sub> ) Sulphur oxides carbon disulphide hydrogen sulfide

### SECTION 11. TOXICOLOGICAL INFORMATION

<b>Acute Oral Toxicity</b>	female rat: LD50: >5,000 mg/kg
<b>Acute Dermal Toxicity</b>	male & female rat: LD50: > 5,000 mg/kg
<b>Acute Inhalation Toxicity</b>	male & female rat: LD50: > 2.06 mg/l Exposure time: 4 h
<b>Skin Irritation</b>	Slightly irritating.
<b>Eye Irritation</b>	Mildly irritating.
<b>Sensitization</b>	Not considered to be a contact sensitizer.
<b>Chronic Toxicity</b>	THIRAM has shown mutagenic activity in the Ames Test, but non-mutagenic in mammalian cell studies. Since Thiram was not mutagenic in vivo, the FAO (Food and Agricultural Organization) concludes that Thiram does not present a genotoxic hazard to humans. Chronic feeding studies with laboratory animals did not exhibit carcinogenic effects.
<b>Assessment Carcinogenicity</b>	
<b>ACGIH</b>	
Thiram	137-26-8                  Group A4
<b>NTP</b>	
None.	
<b>IARC</b>	
Thiram	137-26-8                  Overall evaluation: 3
<b>OSHA</b>	
None.	

### SECTION 12. ECOLOGICAL INFORMATION

<b>Environmental Precautions</b>	Toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by leaning equipment or
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disposal of wastes, including equipment wash water. Drift or run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Apply this product only as specified on the label.

### SECTION 13. DISPOSAL CONSIDERATIONS

<b>General Disposal Guidance</b>	Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Open dumping is prohibited.
<b>Container Disposal</b>	Do not re-use empty containers. Triple rinse containers. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke.
<b>RCRA Classification:</b>	The RCRA Classifications may be on the individual component(s) and not necessarily on the product as a whole.
137-26-8	Thiram US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261): U244
137-26-8	Thiram US. EPA Resource Conservation and Recovery Act (RCRA) U List of Hazardous Wastes (40 CFR 261.33(f) and 40 CFR 302 [CERCLA]): U244

### SECTION 14. TRANSPORT INFORMATION

#### TRANSPORTATION CLASSIFICATION:

RQ, Environmentally Hazardous Substances, Liquid, N.O.S. (Thiram) // 9 // UN3082 // PG III

#### IMDG CLASSIFICATION:

RQ, Environmentally Hazardous Substances, Liquid, N.O.S. (Thiram) // 9 // UN3082 // PG III // Marine Pollutant

#### FREIGHT CLASSIFICATION:

Insecticides or Fungicides, N.O.I.; other than poison

### SECTION 15. REGULATORY INFORMATION

**EPA Registration No.** 84178-1

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### US Federal Regulations

#### TSCA list

Thiram

US Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

None.

#### SARA Title III – Section 302 – Notification and Information

None.

#### SARA Title III – Section 313 – Toxic Chemical Release Reporting

Thiram 137-26-8 1.0%

### US States Regulatory Reporting

#### CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

### US States Right-To-Know Ingredients

Thiram 137-26-8 CA, CT, IL, MN, NJ, PA, RI

### Canadian Regulations

#### Canadian Domestic Substance List

Thiram 137-26-8

### Environmental

#### CERCLA

Thiram 137-26-8 10 lbs

#### Clean Water Section 307 Priority Pollutants

None.

#### Safe Drinking Water Act Maximum Contaminant Levels

None.

### International Regulations

#### European Inventory of Existing Commercial Substances (EINECS)

Thiram 137-26-8

## SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health – 2                      Flammability – 1                      Reactivity – 1                      Others – none  
0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

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