

# SAFETY DATA SHEET



Issue Date 15-Apr-2007

Revision Date 26-Nov-2012

Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** DeerPro Winter Animal Repellent

### Other means of identification

**SDS #** G001

**UN/ID No** UN3082

### Recommended use of the chemical and restrictions on use

**Recommended Use** winter animal repellent.

### Details of the supplier of the safety data sheet

#### **Supplier Address**

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

### Emergency telephone number

**Company Phone Number** 1-877-486-3337  
**Emergency Telephone** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Specific target organ toxicity (repeated exposure)	Category 2

**Signal word****Warning****Hazard statements**

Harmful if inhaled  
 Causes skin irritation  
 Causes severe eye irritation  
 May cause an allergic skin reaction  
 May cause damage to organs through prolonged or repeated exposure



**Appearance** Green liquid

**Physical state** liquid

**Precautionary Statements - Prevention**

Use only outdoors or in a well-ventilated area  
 Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Contaminated work clothing should not be allowed out of the workplace  
 Do not breathe dust/fume/gas/mist/vapors/spray

**Precautionary Statements - Response**

Get medical advice/attention if you feel unwell  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a POISON CENTER or doctor/physician  
 IF ON SKIN: Wash with plenty of soap and water  
 Take off contaminated clothing and wash before reuse  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Call a POISON CENTER or doctor/physician if you feel unwell

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

May be harmful if swallowed  
 May be harmful in contact with skin

**Other Information**

- Very toxic to aquatic life with long lasting effects
- Very toxic to aquatic life

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
Thiram	137-26-8	20-30	*

### 4. FIRST AID MEASURES

**First aid measures**

<b>General advice</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Call a physician if you feel unwell.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician immediately.
<b>Ingestion</b>	Rinse mouth. Give water in small gulps to drink. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not leave victim unattended.
<b>Skin Contact</b>	Wash off immediately with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Call a physician immediately.

**Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	May cause nausea, vomiting, stomach ache, and diarrhea. May cause allergic skin reaction. May cause skin and eye irritation. Use of alcoholic beverages may enhance toxic effects.
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**Indication of any immediate medical attention and special treatment needed**

<b>Note to physicians</b>	Treat symptomatically. There is no specific antidote.
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**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Dry chemical, CO2 or water spray. Foam.

**Unsuitable Extinguishing Media** Not determined.

**Specific hazards arising from the chemical**

Emits toxic fumes under fire conditions.

**Hazardous combustion products** Nitrogen oxides (NOx). Oxides of sulfur. Carbon disulfide. Hydrogen sulfide.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate area of unprotected personnel. Remain upwind of fire to avoid hazardous vapors and decomposition products. Cool containers with flooding quantities of water until well after fire is out. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Equipment or materials involved in pesticide fires may become contaminated.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
<b>For emergency responders</b>	In case of spill, keep unnecessary people away; isolate hazard area and deny entry.
<b>Environmental precautions</b>	Do not allow into any sewer, on the ground or into any body of water.

**Methods and material for containment and cleaning up**

<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so. Absorb spill with inert material (e.g. dry sand or earth).
<b>Methods for cleaning up</b>	Keep in suitable, closed containers for disposal. Clean surface thoroughly to remove residual contamination. Clean up in accordance with all applicable regulations.

**7. HANDLING AND STORAGE****Precautions for safe handling**

<b>Advice on safe handling</b>	Wash face, hands and any exposed skin thoroughly after handling. Since empty container retains residue, follow all label warnings even after container is empty. Remove Personal Protective Equipment immediately after handling this product. Use only in well-ventilated areas. Use personal protection recommended in Section 8. Do not breathe dust/fume/gas/mist/vapors/spray. Do not allow contaminated clothing out of the workplace.
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**Conditions for safe storage, including any incompatibilities**

<b>Storage Conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Do not contaminate food or feed stuffs. Keep only in original container. Keep locked up and out of reach of children. Do not transport or store below 0 C/ 32 F. Do not transport or store above 10 C/ 49 F.
<b>Incompatible materials</b>	Strong acids. Strong oxidizing agents. Copper.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Thiram 137-26-8	TWA: 0.05 mg/m <sup>3</sup> inhalable fraction and vapor	TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup>	IDLH: 100 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>

**Appropriate engineering controls**

<b>Engineering Controls</b>	Apply technical measures to comply with the occupational exposure limits.
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**Individual protection measures, such as personal protective equipment**

<b>Eye/face protection</b>	Wear approved safety goggles.
<b>Skin and body protection</b>	Wear protective nitrile rubber gloves. Wear long-sleeved shirt, long pants, and shoes plus socks.
<b>Respiratory protection</b>	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice. Follow all label instructions. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

<b>Physical state</b>	liquid	<b>Odor</b>	Not determined
<b>Appearance</b>	Green liquid	<b>Odor threshold</b>	Not determined
<b>Color</b>	green		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>pH</b>	7.64	as a 1% w/w solution	
<b>Melting point/freezing point</b>	-9.4- -6.7 °C / 15.1- 19.9 °F		
<b>Boiling point/boiling range</b>	Not determined		
<b>Flash point</b>	> 93.4 °C / > 200.1 °F		
<b>Evaporation rate</b>	Not determined		
<b>Flammability (solid, gas)</b>	Not determined		
<b>Flammability Limits in Air</b>			
<b>Upper flammability limits</b>	Not determined		
<b>Lower flammability limit</b>	Not determined		
<b>Vapor pressure</b>	Not determined		
<b>Vapor density</b>	Not determined		
<b>Specific Gravity</b>	Not determined		
<b>Water solubility</b>	Miscible in water		
<b>Solubility in other solvents</b>	Not determined		
<b>Partition coefficient</b>	Not determined		
<b>Autoignition temperature</b>	Not determined		
<b>Decomposition temperature</b>	Not determined		
<b>Kinematic viscosity</b>	Not determined		
<b>Dynamic viscosity</b>	Not determined		
<b>Explosive properties</b>	Not determined		
<b>Oxidizing properties</b>	Not determined		

**Other Information**

**Bulk density** 1.123 g/mL

## 10. STABILITY AND REACTIVITY

**Reactivity**

Not reactive under normal conditions

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to avoid**

Excessive heat or cold.

**Incompatible materials**

Strong acids. Strong oxidizing agents. Copper.

**Hazardous Decomposition Products**

Nitrogen oxides (NO<sub>x</sub>), oxides of sulfur. Hydrogen sulfide. Carbon disulfide.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

**Inhalation** Harmful if inhaled.

<b>Eye contact</b>	Causes severe eye irritation.
<b>Skin Contact</b>	Causes skin irritation. May be harmful in contact with skin.
<b>Ingestion</b>	May be harmful if swallowed.

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Thiram 137-26-8	560 mg/kg ( Rat )	>2000 mg/kg ( Rat )	500 mg/m <sup>3</sup> ( Rat ) 4 h

**Information on physical, chemical and toxicological effects**

**Symptoms** Ingestion of concentrate may cause nausea, vomiting and abdominal pain. Causes eye irritation. Causes skin irritation. May cause allergic skin reaction.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** May cause an allergic skin reaction.

**Carcinogenicity** Group 3 IARC components are "not classifiable as human carcinogens".

Chemical Name	ACGIH	IARC	NTP	OSHA
Thiram 137-26-8		Group 3		

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Numerical measures of toxicity- Product**

Not determined

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	2171 mg/kg
ATEmix (dermal)	4264 mg/kg
ATEmix (inhalation-dust/mist)	1.9 mg/l

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Very toxic to aquatic life with long lasting effects

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea

Thiram 137-26-8	<0.1: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50	0.00024-0.00028: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 semi-static 0.0003: 96 h <i>Cyprinus carpio</i> mg/L LC50 semi-static 0.034-0.05005: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 0.048: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 0.0491-0.0611: 96 h <i>Pimephales promelas</i> nM LC50 semi-static 0.090-0.170: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 0.13: 96 h <i>Lepomis macrochirus</i> mg/L LC50 0.22-0.33: 96 h <i>Poecilia reticulata</i> mg/L LC50 semi-static 0.27: 96 h <i>Pimephales promelas</i> mg/L LC50 1.2: 96 h <i>Leuciscus idus</i> mg/L LC50 static	0.21: 48 h <i>Daphnia magna</i> mg/L EC50
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**Persistence and degradability**

Not determined.

**Bioaccumulation**

Not determined.

**Mobility**

The product is water soluble and may spread in water systems.

Chemical Name	Partition coefficient
Thiram 137-26-8	1.73

**Other adverse effects**

Not determined

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods****Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Do not dump into any sewers, on the ground, or into any body of water. 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.

**Contaminated packaging**

Do not reuse container. Triple rinse with water and dispose of container. Dispose of in accordance with federal, state and local regulations.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Thiram 137-26-8	U244			U244

### 14. TRANSPORT INFORMATION

**Note**

The shipping description is specified to the container and mode of shipment. Please refer to the shipping papers for this information.

**DOT**

UN/ID No UN3082  
 Proper shipping name Environmentally hazardous substances, liquid, n.o.s. (Thiram)  
 Hazard Class 9  
 Packing Group III  
 Reportable Quantity (RQ) 10 lbs (4.45 kg)

**IATA**

UN/ID No UN3082  
 Proper shipping name Environmentally hazardous substances, liquid, n.o.s. (Thiram)  
 Hazard Class 9  
 Packing Group III

**IMDG**

UN/ID No UN3082  
 Proper shipping name Environmentally hazardous substances, liquid, n.o.s. (Thiram)  
 Hazard Class 9  
 Packing Group III

## 15. REGULATORY INFORMATION

**International Inventories**

TSCA Listed  
 DSL Listed  
 EINECS Listed

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
 ENCS - Japan Existing and New Chemical Substances  
 IECSC - China Inventory of Existing Chemical Substances  
 KECL - Korean Existing and Evaluated Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances

**US Federal Regulations**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Thiram - 137-26-8	137-26-8	20-30	1.0

**SARA 311/312 Hazard Categories**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Thiram 137-26-8	10 lb		RQ 10 lb final RQ RQ 4.54 kg final RQ

**US State Regulations****U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Thiram 137-26-8	X	X	X

**U.S. EPA Label Information**



EPA Pesticide Registration Number 84178-1

<b>16. OTHER INFORMATION</b>
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<b><u>NFPA</u></b>	<b>Health hazards</b> 2	<b>Flammability</b> 1	<b>Instability</b> 1	<b>Special Hazards</b> Not Applicable
<b><u>HMIS</u></b>	<b>Health hazards</b> Not determined	<b>Flammability</b> Not determined	<b>Physical hazards</b> Not determined	<b>Personal protection</b> Not determined

**Issue Date** 15-Apr-2007

**Revision Date** 26-Nov-2012

**Revision Note**

No information available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**