

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

General advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Inhalation	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.
Eye contact	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.
Ingestion	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.
Skin Contact	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

Symptoms	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.
-----------------	--

Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically. There is no specific antidote.
---------------------------	---

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**

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

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so. Absorb spill with inert material (e.g. dry sand or earth).
Methods for cleaning up	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**

Advice on safe handling	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.
--------------------------------	--

Conditions for safe storage, including any incompatibilities

Storage Conditions	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.
Incompatible materials	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 ³ inhalable fraction and vapor	TWA: 5 mg/m ³ (vacated) TWA: 5 mg/m ³	IDLH: 100 mg/m ³ TWA: 5 mg/m ³

Appropriate engineering controls

Engineering Controls	Apply technical measures to comply with the occupational exposure limits.
-----------------------------	---

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear approved safety goggles.
Skin and body protection	Wear protective nitrile rubber gloves. Wear long-sleeved shirt, long pants, and shoes plus socks.
Respiratory protection	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.
General Hygiene Considerations	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**

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

11. TOXICOLOGICAL INFORMATION

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

Inhalation Harmful if inhaled.

Eye contact	Causes severe eye irritation.
Skin Contact	Causes skin irritation. May be harmful in contact with skin.
Ingestion	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 ³ (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
--------------------	---	--	---

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

16. OTHER INFORMATION

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