

# MATERIAL SAFETY DATA SHEET

## 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Bat-A-Way  
**Synonyms:** Naphthalene  
**Molecular Formula:** C<sub>10</sub>H<sub>8</sub>  
**Molecular Weight:** 128.16  
**Product Number:** FIN 328, 332, 334, 340

**Supplier:**  
Dr. T's Nature Products, Inc.  
P. O. Box 682, 2658 US Hwy 19 North  
Pelham, GA 31779

**Emergency Telephone:** 1-800-299-6288

**Intended Use:** Bird, squirrel, rabbit and bat repellent

## 2 COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous component	CAS-No.	Weight %
naphthalene	91-20-3	99.95
inert ingredients	not applicable	0.05

## 3 HAZARDS IDENTIFICATION

### Emergency Overview

**Physical State:** At ambient conditions: Solid, flakes, chips or balls

**Color:** White

**Odor:** Strong aromatic hydrocarbon

WARNING!

Flammable solid

Harmful if swallowed.

May cause allergic skin reaction.

Dust or vapor causes irritation to eyes and respiratory tract.

### Potential Health Effects

**Inhalation:** Causes irritation. Inhalation of dust or vapors can cause headache, nausea, vomiting, and disorientation.

**Eye Contact:** Causes irritation. Exposure may cause eye tearing, redness and discomfort.

**Skin Contact:** May cause sensitization by skin contact. Exposure may cause redness, itching and inflammation.

**Ingestion:** Harmful if swallowed. May cause systemic effects. Extremely large oral dosages may produce gastrointestinal disturbances.

**Chronic Health Effects:** Possible cancer hazard – may cause cancer based on animal data. Repeated or prolonged exposure can cause target organ damage. Effects may be delayed. Chronic inhalation, skin absorption or ingestion of naphthalene has caused severe hemolytic anemia.

**Target Organ(s):** Eye, lung, gastrointestinal tract, blood, CNS, kidney, liver

**OSHA Regulatory Status:** Hazardous

#### 4 FIRST AID MEASURES

**Inhalation:** Move to fresh air. Get medical attention if symptoms occur

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention.

**Skin Contact:** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse.

**Ingestion:** If swallowed, induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

#### 5 FIRE-FIGHTING MEASURES

**Extinguishing Media:** Water spray, dry chemical, carbon dioxide

**Unsuitable Extinguishing Media:** None known

**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing.

**Unusual Fire & Explosion Hazards:** Fire may produce irritating and/or toxic gases. Yields flammable vapors on heating above melting point. Material in powder form, capable of creating a dust explosion.

**Hazardous Combustion Products:** Carbon oxides

#### 6 ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear appropriate personal protective equipment. See Section 8.

**Spill Cleanup Methods:** Minimize dust generation and accumulation. Sweep up and place in a clearly labeled container for chemical waste. Do not allow material to enter drains or streams.

#### 7. HANDLING AND STORAGE

**Handling:** Wear appropriate personal protective equipment. Avoid breathing dust or vapor. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling.

**Prevention of Fire and Explosion:** Keep away from heat, sparks, and flame. Keep away from strong oxidizing agents. Minimize dust generation and accumulation. In the United States of America, refer to NFPA® Pamphlet No. 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries."

**Storage:** Keep container tightly closed until ready for use. Keep in a cool, well-ventilated place. Keep away from moisture.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Limits:

Chemical Name	Source	Type	Exposure Limits	Notes
Naphthalene	ACGIH	TWA	10 ppm	Irritation; ocular; blood
Naphthalene	ACGIH	STEL	15 ppm	Irritation; ocular; blood
Naphthalene	OSHA Z-1	TWA	10 ppm	--
Naphthalene	NIOSH	IDLH	250 ppm	--

**Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne contaminants below established exposure limits.

**Respiratory Protection:** If engineering controls do not keep airborne concentrations below established exposure limits, wear a NIOSH-approved respirator equipped with high-efficiency particulate filter(s). Contact health and safety professionals for specific information.

**Eye Protection:** Wear safety glasses with side shields (or goggles).

**Hand Protection:** Wear protective gloves and clothing. Contact health and safety professionals for additional information.

**Skin Protection:** Wear disposable coveralls, lab coat, or apron to prevent skin contact.

**Hygiene Measures:** Eye bath, washing facilities

## 9 PHYSICAL AND CHEMICAL PROPERTIES

**Color:** White

**Odor:** Strong aromatic hydrocarbon

**Odor Threshold:** 0.038 ppm

**Physical State:** At ambient conditions: Solid, flakes, chips or balls

**pH:** No data available

**Boiling Point:** 215 - 220°C (419 - 428°F)

**Melting Point:** 80.2°C (176.4°F)

**Flash Point:** 88°C (190°F)

**Evaporation Rate:** <1

**Flammability:** Flammable

**Flammability Limit – Upper (%):** 5.9%

**Flammability Limit – Lower (%):** 0.9%

**Vapor Pressure:** 0.085 mmHg @ 25°C

**Vapor Density (Air=1):** No data available  
**Specific Gravity:** 1.15  
**Solubility in Water:** Insoluble  
**Solubility (Other):** Soluble in alcohol  
**Partition Coefficient (n-Octanol/water):** log Kow = 3.30  
**Autoignition Temperature:** 540°C (1004°F)  
**Decomposition Temperature:** No data available

## 10 STABILITY AND REACTIVITY

**Stability:** Stable

**Conditions to Avoid:** The reaction between water and molten naphthalene may be violent.

**Incompatible Materials:** Strong oxidizing agents

**Hazardous Decomposition Products:** Carbon oxides

**Hazardous Polymerizations:** Will not occur.

## 11 TOXICOLOGICAL INFORMATION

### Specified Substances

#### Acute Toxicity

Chemical Name	Test Results
Naphthalene	Eye (Rabbit): Mild
Naphthalene	Skin (Rabbit): Mild
Naphthalene	Dermal LD <sub>50</sub> (Rat): >2500 mg/kg
Naphthalene	Oral LD <sub>50</sub> (Rat): 490 mg/kg
Naphthalene	Inhalation LC <sub>50</sub> (Rat): >340 mg/m <sup>3</sup> /1H

#### Listed Carcinogens:

Chemical Name	IARC	NTP	OSHA	ACGIH
Naphthalene	2B (Possible carcinogenic to humans)	Anticipated carcinogen		A4 (Not classifiable as a human carcinogen)

## 12 ECOLOGICAL INFORMATION

This material has not been tested for environmental effects.

## 13 DISPOSAL CONSIDERATIONS

**General Information:** Dispose in accordance with applicable federal, state, and local regulations.

**Disposal Methods:** No specific disposal method required.

**Container:** Since emptied containers retain product residue, follow label warnings even after container is emptied.

<b>14 TRANSPORT INFORMATION</b>
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**DOT:****UN No:** 1334**Proper Shipping Name:** Naphthalene, Crude**Class:** 4.1**Packaging Group:** III**Label:** 4.1

- **Product Number FIN 328**, 264.5 lb container, Consumer Commodity Provisions do not apply
- **Product Number FIN 332**, 4 lb container, meets the special provisions as described in the DOT 49 CFR, 173.151 (b) (2), and can be shipped as a Consumer Commodity.
- **Product Number FIN 334**, 1.25 lb container, meets the special provisions as described in the DOT 49 CFR, 173.151 (b) (2), and can be shipped as a Consumer Commodity..
- **Product Number FIN 340**, 24 lb pail, Consumer Commodity Provisions do not apply.

**Consumer Commodity Provisions:** In containers of 5L (5.0 kg; 11 lbs) capacity or less, this product is classified as a "Consumer Commodity."

**TDG:****UN No:** 1334**Proper Shipping Name:** Naphthalene, Crude**Class:** 4.1**Packaging Group:** III**Label:** 4.1**IATA:****UN No:** 1334**Proper Shipping Name:** Naphthalene, Crude**Class:** 4.1**Packaging Group:** III**Label:** Flammable Solid**Special provisions:** None**Passenger aircraft:** 25 kg quantity limitation**Cargo aircraft:** 100 kg quantity limitation**IMDG:****UN No:** 1334**Proper Shipping Name:** Naphthalene, Crude**Class:** 4.1**Packaging Group:** III**Label:** 4.1

- **Product Number FIN 328**, 264.5 lb container, as described in the International Maritime Dangerous Goods IMDG Code, 2004 edition, Chapter 3.4 Limited Quantities, Limited Quantity Provisions do not apply.
- **Product Number FIN 332**, 4 lb container, meets the special provisions as described in the International Maritime Dangerous Goods IMDG Code, 2004 edition, Chapter 3.4 Limited Quantities, and can be shipped as a Consumer Commodity.
- **Product Number FIN 334**, 1.25 lb container, meets the special provisions as described in the

International Maritime Dangerous Goods IMDG Code, 2004 edition, Chapter 3.4 Limited Quantities, and can be shipped as a Consumer Commodity.

- **Product Number FIN 340**, 24 lb pail, as described in the International Maritime Dangerous Goods IMDG Code, 2004 edition, Chapter 3.4 Limited Quantities, Limited Quantity Provisions do not apply.

**Limited Quantity Provision/Exemption:** In containers of 5L (5.0 kg; 11 lbs) capacity or less, this product is classified as a “Consumer Commodity” under IMDG regulations. Limited quantities of dangerous goods for personal or household use that are packaged and distributed in a form intended or suitable for sale through retail agencies are in addition exempt from marking of the Proper Shipping Name and UN Number on the packaging.

## 15 REGULATORY INFORMATION

**Canadian Controlled Products Regulations:** This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information.

**WHMIS Classification:** B4, D1B, D2A, D2B

### Inventory Status

**This product or all components are listed on the following inventory:** TSCA, DSL

### US Regulations

#### **CERCLA Hazardous Substance List (40 CFR 302.4):**

Component	Reportable Quantity
Naphthalene	100 lbs

### SARA Title III

**Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):** None

#### **Section 311/312 (40 CFR 370):**

Acute (Immediate)       Chronic (Delayed)       Fire       Reactive       Pressure Generating

#### **Section 313 Toxic Release Inventory (40 CFR 372):**

Component	CAS No.	Concentration
Naphthalene	91-20-3	99.95%

**Clean Air Act (CCA) Section 112, 1990 Amendments, Statutory Hazardous Air Pollutants:**

Naphthalene

**Clean Air Act (CAA) Section 112(i) High-Risk Hazardous Air Pollutants (40CFR 63.74):** None

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40CFR 68.130):** None

**Clean Water Act Section 307 Toxic Pollutants (40 CFR 401.15):** Naphthalene

**Clean Water Act Section 311 Hazardous Chemical (40 CFR 116.4):** Naphthalene

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):** Naphthalene

**Drug Enforcement Act:**

**Drug Enforcement Administration (21 CFR 1310.02(b) and 1310.04 (f)(2)):** None

**Drug Enforcement Administration (21 CFR 1310.12(c)):** None

**TSCA:**

**TSCA Section 4(a) Final Test Rules & Testing Consent Orders:** Naphthalene

**TSCA Section 12(B) Export Notification (40 CFS 707, Subpt D):** Naphthalene

**State Regulations**

**California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):**

WARNING: This product contains a chemical known to the State of California to cause cancer or reproductive toxicity:

California Prop 65 chemical: Naphthalene

**Massachusetts Right-To-Know List:** Naphthalene

**Michigan Critical Materials List (Michigan Natural Resources and Environmental Protection Act (Act. 451 of 1994)):** None

**Minnesota Hazardous Substances List:** Naphthalene

**New Jersey Right-To-Know List:** Naphthalene

**Pennsylvania Right-To-Know List:** Naphthalene

**Rhode Island Right-To-Know List:** Naphthalene

<b>16</b>	<b>OTHER INFORMATION</b>
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**Hazard Ratings**

	Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
<b>NFPA</b>	2	2	0	--

	Health Hazard	Fire Hazard	Reactivity Hazard
<b>HMIS</b>	2*	2	0

0 – Minimal; 1 – Slight; 2 – Moderate; 3 – Serious; 4 – Severe; \*- Chronic health effect

**Revision Information:** Update composition, add toxicological data, add regulatory information

**Issue Date:** 10/26/2005

**Supersedes Date:** 11/19/2001

**Disclaimer:** The information in this MSDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions of handling, storage and disposal of this product are beyond our control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume full responsibility for loss, injury, and expense arising out of products improper use. No warranty expressed or inferred, regarding the product described in this MSDS shall be created or inferred by any statement in this MSDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use or disposal of this product which may not be covered in this MSDS. The user is responsible for full compliance.