

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** PROOF Bed Bug & Dust Mite Killer

### Other means of identification

**Product code** 872444001024  
EPA Reg. No. 88760-6

**Recommended use** Insecticide

**Recommended restrictions** No restrictions on use known.

**Chemical family** Mixture.

**Manufacturer** Refer to Supplier

### Supplier information

**Company name** Terramera, Inc.  
**Address** 333 Seymour Street  
Suite 1100  
Vancouver, BC, Canada  
V6B 5A6

**Telephone** (800) 597 9509

**Emergency phone number** INFOTRAC - (800) 535-5053 (Within Continental US); (352) 323-3500 (Outside US)

## 2. Hazard(s) Identification

This product is a pesticide, and as such is not regulated by OSHA. The OSHA classification below is provided for informational purposes only

**Physical hazards** Not classified for physical hazards.

**Health hazards** Not classified for health hazards.

**Environmental hazards** Not currently regulated.

**OSHA defined hazards** No OSHA defined hazard classes.

**Label elements** None required according to OSHA Hazcom 2012.

**Signal Word** None required.

**Hazard statement(s)** None required.

**Precautionary statement(s)**

**Prevention** None required.

**Response** None required.

**Storage** None required.

**Disposal** None required.

**Hazard(s) not otherwise Classified (HNOC)** None known.

**Supplemental Information** None.

## 3. Composition/information on ingredients

### Mixture

Chemical name	Common name and synonyms	CAS number	Concentration (%)
Neem Oil	Margosa Oil	8002-65-1	5.50

Material name: PROOF Bed Bug & Dust Mite Killer

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## 4. First-aid measures

<b>Inhalation</b>	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms persist.
<b>Skin contact</b>	Wash off with warm water and soap. Get medical attention if symptoms occur.
<b>Eye contact</b>	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms persist.
<b>Ingestion</b>	If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting without advice from poison control center. Get medical attention.
<b>Most important symptoms and effects, both acute and delayed</b>	Direct skin contact may cause slight or mild, transient irritation. Direct eye contact may cause slight or mild, transient irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Indication of any immediate medical attention and special treatment needed</b>	Treat symptomatically.
<b>General Information</b>	None reported by the manufacturer.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water. Water Spray or Fog. Dry chemicals. Foam. Carbon dioxide (CO2).
<b>Unsuitable extinguishing media</b>	Do not use water jet, as this may spread burning material.
<b>Specific hazards arising from the chemical</b>	None known.
<b>Special protective equipment and precautions for fire-fighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire-fighting equipment/instructions</b>	Cool containers exposed to heat with water spray and remove container, if no risk is involved.
<b>Specific methods</b>	None known or reported by the manufacturer.
<b>General fire hazards</b>	Not flammable.
<b>Hazardous combustion products</b>	Carbon oxides and other irritating fumes and smoke.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Stop spill or leak at source if safely possible. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13).
<b>Environmental precautions</b>	Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

## 7. Handling and storage

<b>Precautions for safe handling</b>	Avoid breathing mist or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
<b>Conditions for safe storage, including any incompatibilities</b>	Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel.

## 8. Exposure controls/personal protection

### Occupational exposure limits

No exposure limits noted for the ingredient(s).

### Biological limit values

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Not available.

## Exposure guidelines

There is no established exposure limits for this product.

**Appropriate engineering controls** Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

## Individual protection measures, such as personal protective equipment

**Eye / face protection** Wear safety glasses with side shields (or goggles).

### Skin protection

**Hand protection** Chemical resistant gloves recommended.

**Other** Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health or safety professional or manufacturer for specific information.

**Respiratory protection** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Contact health and safety professional or manufacturer for specific information.

**Thermal hazards** None reported by the manufacturer.

## General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not ingest. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove and wash contaminated clothing before re-use.

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

### Appearance

**Physical state** Liquid

**Form** Liquid

**Color** Light yellow

**Odor** Mild marzipan type odor

**Odor threshold** Not available.

**pH** 4.25

**Melting point /freezing point** Not available.

### Initial boiling point and boiling range

Not available.

**Flash point** >98°C (208.42°F)

Tag closed cup

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not applicable.

**Lower flammability/explosive limit** Not available.

**Upper flammability/explosive limit** Not available.

**Vapour pressure** Not available.

**Vapour density** Not available.

**Relative density** 1.0

### Solubility(ies)

**Other solubility(ies)** No information available.

**Solubility (water)** Insoluble.

**Partition coefficient (n-octanol/water)** Not available.

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<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	No information available.
<b>Viscosity</b>	74.3 mPas @25°C
<b>Other information</b>	
<b>Explosive properties</b>	Not explosive
<b>Oxidizing properties</b>	None known.
<b>Specific gravity</b>	1.0
<b>Critical temperature</b>	Not available.
<b>VOC</b>	Not available.
<b>Volatilities %</b>	No information available.
<b>Other physical/chemical data</b>	None known or reported by the manufacturer.

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Stable at normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Keep away from heat, sparks and open flame. High temperatures.
<b>Incompatible materials</b>	None known or reported by the manufacturer.
<b>Hazardous decomposition products</b>	Carbon oxides

## 11. Toxicological information

### Information on likely routes of exposure

<b>Routes of entry inhalation</b>	YES
<b>Routes of entry skin &amp; eye</b>	YES
<b>Routes of entry Ingestion</b>	YES
<b>Routes of exposure skin absorption</b>	NO

**Most important symptoms/effects, acute and delayed** Direct skin contact may cause slight or mild, transient irritation. Direct eye contact may cause slight or mild, transient irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### Information on toxicological effects

#### Acute toxicity

	<b>Species</b>	<b>Test Results</b>
PROOF Bed Bug & Dust Mite Killer		
<b>Acute Dermal</b>		
LD50	Rabbit	>5050 mg/kg
<b>Acute inhalation</b>		
LC50	Rat	N/Av
<b>Acute Oral</b>		
LD50	Rat	>5000 mg/kg

**Skin Corrosion/Irritation** Not an irritant.

**Serious eye damage/Irritation** Direct eye contact may cause slight or mild, transient irritation. Irritation is expected to clear withing 48 hours.

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<b>Respiratory or skin sensitization</b>	Not expected to be a skin or respiratory sensitizer.
<b>Germ cell mutagenicity</b>	Not expected to be mutagenic.
<b>Carcinogenicity</b>	No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
<b>Reproductive toxicity</b>	Not expected to cause reproductive effects.
<b>Specific target organ toxicity - single exposure</b>	Not classified as a specific target organ toxicity-single exposure.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified as a specific target organ toxicity -repeated exposure.
<b>Chronic effects</b>	Prolonged or repeated contact may cause drying, cracking and defatting of the skin.
<b>Aspiration toxicity</b>	Not expected to be an aspiration hazard.
<b>Further information</b>	See below for individual ingredient acute toxicity data.

## 12. Ecological information

<b>Ecotoxicity</b>	The product is not classified as environmentally hazardous.	
<b>Persistence and degradability</b>	No data is available on the product itself.	
<b>Bioaccumulation potential</b>	No data is available on the product itself.	
Neem Oil (CAS 8002-65-1)	N/Av	N/Av
<b>Mobility in soil</b>	No data is available on the product itself.	
<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

## 13. Disposal consideration

<b>Disposal instructions</b>	Handle waste according to recommendations in Section 7. Do not cut, weld, drill or grind on or near this container. Empty containers retain residue (liquid and/or vapour) and can be dangerous.
<b>Local disposal regulations</b>	Reuse or recycling should be given priority over disposal. If the material is unsuitable for recycling or reclamation, dispose of in accordance with federal, provincial and local hazardous waste laws. Contact your local, state or federal environmental agency for specific rules.
<b>Hazardous waste code</b>	If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.
<b>Waste from residues / unused products</b>	
<b>Contaminated packaging</b>	

## 14. Transport information

<b>49CFR/DOT</b> Not regulated as dangerous goods
<b>TDG</b> Not regulated as dangerous goods

<b>General information</b>	Appropriate advice on safety must accompany the package. Keep away from heat, sparks and open flame. - No smoking.
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**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** This information is not available.

## 15. Regulatory information

**US Federal Information:** SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Immediate (Acute) health hazard; None.. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

U.S. Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) information: This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Neem Oil	8002-65-1	NL	N/Av	N/Av	No	N/Av

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories**

- Immediate Hazard - NO
- Delayed Hazard - NO
- Fire Hazard - NO
- Pressure Hazard - NO
- Reactivity Hazard - NO

### US state regulations

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Neem Oil	8002-65-1	No	N/Av	No	No	No	No	No	No

### International Inventories

Components listed below are present on the following International Inventory lists:

<u>Ingredients</u>	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Neem Oil	8002-65-1	N/Av	Not available.	Not available.	Not available.	Not available.	Not available.	Not available.

## 16. Other information, including date of preparation or last revision

**Issue date** 11/24/2016

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**Legend**

ACGIH: American Conference of Governmental Industrial Hygienists  
CA: California  
CAS: Chemical Abstract Services  
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
DOT: Department of Transportation  
HSDB: Hazardous Substances Data Bank  
IARC: International Agency for Research on Cancer  
Inh: Inhalation  
LC: Lethal Concentration  
LD: Lethal Dose  
MA: Massachusetts  
MN: Minnesota  
MSHA: Mine Safety and Health Administration  
N/Ap: Not Applicable  
N/Av: Not Available  
NIOSH: National Institute of Occupational Safety and Health  
NJ: New Jersey  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PA: Pennsylvania  
PEL: Permissible exposure limit  
RCRA: Resource Conservation and Recovery Act  
RI: Rhode Island  
RTECS: Registry of Toxic Effects of Chemical Substances  
SARA: Superfund Amendments and Reauthorization Act  
STEL: Short Term Exposure Limit  
TCC: Tagliabue Closed Cup  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
TWA: Time Weighted Average  
TSCA: Toxic Substance Control Act  
WHMIS: Workplace Hazardous Materials Identification System

**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

**Disclaimer**

Prepared by: ICC The Compliance Center Inc.  
<http://www.thecompliancecenter.com>

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## Bibliography

1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016
2. International Agency for Research on Cancer Monographs, searched 2016
3. Canadian Centre for Occupational Health and Safety, CCHInfoWeb databases, 2016(Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists - 2016 version.
6. California Proposition 65 List - 2016 version.
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal,2016.