



PCP 27258

Material Safety Data Sheet

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May 5th 2004

**ZEP SUPER BUG BUSTER**  
**ZEP MANUFACTURING CO**  
**11627-178 ST EDMONTON AB T5S 1N6**  
**1 877 453 5800**

**PCP 27258****SECTION 1: MANUFACTURER INFORMATION**

MANUFACTURER

NATURAL PROPELLENT INC

P.O.BOX 63589 WOODSIDE SQ.MALL. 1571 SANDHURST CIRCLE

AGINCOURT, ONTARIO CANADA M1V 1V0

**SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

AgrEvo Environmental Health. Inc. (Active manufacturers)

95 Chesnut Ridge Road

Montvale, NJ 07645

EMERGENCY TELEPHONE NUMBER

In case of medical environmental or transportation emergencies or inquiries. call 1-800-471-0660 (24 hours day).

For product use information, call: (800) 337-2657 (Days)

PRODUCT NAME: **ZEP SUPER BUG BUSTER**

(PERMANOIVE® INSECT KILLER R4)

PRODUCT CODE: E72053

CHEMICAL NAME: Mixture; active ingredient. Permethrin

MSDS IDENTIFICATION CODE/NUMBER: E72053

Permanone is a registered trademark of AgrEvo Environmental Health, Inc.

PRODUCT DESCRIPTION: **ZEP SUPER BUG BUSTER**

(Permanone Insect Killer R4) is a ready-to-use stable emulsion insecticide for domestic use both indoors and outdoors.

**SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

INGREDIENT NAME	EXPOSURE LIMITS	CONCENTRATION % BY WT.
Permethrin	OSHA/ACGIH	Limits: None established = 0.25

CAS NUMBER: 52645-53-1

Other ingredients

OSHA/ACGIH Limits: None established = 99.75

This product contains no hazardous inert ingredients as defined by the OSHA

Hazard Communication Standard (29 CFR 1910.1200) or WHMIS regulations

**SECTION 3. HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW: A milky white liquid with a mild aromatic odor. This product is extremely toxic to fish.

POTENTIAL HEALTH EFFECTS (ACUTE EFFECTS) SKIN: May cause slight irritation.**SECTION 4. FIRST AID MEASURES**EYES: Flush eyes with plenty of water. Get medical attention if irritation persists.SKIN: Wash with plenty of soap and waterINHALATION: Remove individual to fresh air. Get medical attention if breathing difficulty develops.

**SECTION 5. FIRE FIGHTING MEASURES****FLAMMABLE PROPERTIES**

FLASH POINT: > 200°F > 93°C TCC

**EXTINGUISHING MEDIA**

Carbon dioxide, dry chemical foam or water

**FIRE FIGHTING INSTRUCTIONS**

As in any case, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear. Keep upwind.

Isolate hazard area. Avoid inhalation of smoke and fumes. Use water or foam to reduce fumes. Do not touch spilled material. If possible, move containers from area. Extinguish only if flow can be stopped. Use flooding amounts of water as a fog. Cool containers with flooding amounts of water from as far a distance as possible. Avoid breathing vapors.

**FLAMMABILITY CLASSIFICATION/RATING:**

NFPA/OSHA Class: III B

NFPA Rating (Fire): 1

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**GENERAL AND DISPOSAL** Use proper protective equipment to minimize personal exposure (see Section 8). Take all necessary action to prevent and to remedy the adverse effect of the spill. Ensure that the disposal is in compliance with all Federal, State/Provincial, and local regulations (See Section 73 for applicable RCRA Number). Refer to Section 15 for applicable Reportable Quantity (RQ) and other regulatory requirements.

**LAND SPILL OR LEAK**

**Small Spills:** Absorb with an inert absorbent material such as granular clay, saw dust, or pet litter. Sweep up carefully while avoiding the formation of a dust cloud. Place in an approved chemical waste container for disposal. Rinse spill area with small amount of soapy water. Contain and absorb the rinsate with inert absorbents and place into the same disposal container. Area can be washed with water to remove the last trace residue. Do not allow water to contaminate water supplies or sewers.

**Large Spills:** Eliminate all ignition sources. Stop leak if you can do so without coming into contact with spilled material. Dike far ahead of liquid spill for later disposal. All equipment used to clean up spill should be grounded. Prevent entry into waterways, sewers, basements or confined areas. Inform appropriate authorities immediately if contamination occurs. Contact AgrEvo for further assistance if necessary.

**SECTION 7. HANDLING AND STORAGE****HANDLING PRECAUTIONS**

- \* Avoid contamination of feed and foodstuffs.
- \* Remove pets and birds and cover fish aquaria before surface applications.
- \* Do not use on humans.
- \* Do not allow children or pets to contact treated areas until surfaces are dry.
- \* Do not use on dogs under twelve weeks old.
- \* Consult a veterinarian before using this product on medicated, debilitated, aged, pregnant or nursing animals.

**STORAGE PRECAUTIONS**

Do not contaminate water, food or feed by storage.

- \* Store upright at room temperature.
- \* Avoid exposure to extreme temperatures.

**WORK/HYGIENIC PRACTICES:** Wash thoroughly after handling & before smoking or eating.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**  
**MANUFACTURING, FORMULATION AND OTHER NON-AGRICULTURAL USES**  
**ENGINEERING CONTROLS**

Control airborne concentrations below the appropriate exposure guideline (see Section 2 for applicable OSHA/ACGIH Exposure Limits). Local exhaust ventilation may be necessary.

**EYE/FACE PROTECTION**

Wear safety glasses, splash goggles or face shield.

**SKIN PROTECTION**

Wear chemical-resistant gloves (Neoprene, Nitrile, PVC) and other protective clothing to avoid skin contact

**RESPIRATORY PROTECTION**

Ensure good ventilation. If not adequate, use a chemical cartridge-type respirator approved by the National Institute of Occupational Health and Safety

**GENERAL PROTECTION**

Eye wash facility and safety shower should be available.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES****APPEARANCE**

A milky white liquid.

**ODOR**

Mild aromatic

**BASIC PHYSICAL PROPERTIES**

PHYSICAL STATE Liquid      ph: Neutral (6 - 8)

VAPOR PRESSURE: Not available

VAPOR DENSITY (AIR=1): Not available

EVAPORATION RATE (BUTYL ACETATE=1): Not Available

SPECIFIC GRAVITY OR DENSITY: 1.00 @ 20°C

PACKING (BULK) DENSITY: Not available

BOILING POINT/RANGE: Not available

MELTING/FREEZING POINT RANGE: Not available

SOLUBILITY (IN WATER): Not available

SOLBILITY IN SOLVENTS/OIL (SPECIFIED): Not available

DUST EXPLOSION SEVERITY DATA: Not applicable

MINIMUM IGNITION ENERGY (MJ): Not available

MINIMUM EXPLOSION CONCENTRATION (MEC): Not available

LIMITED OXYGEN CONCENTRATION (LOC): Not available

**SECTION 10 STABILITY AND REACTIVITY**

STABILITY: Stable

HAZARDOUS POLYMERIZATION- Will not occur.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Acute toxicity data listed below was bridged from a similar product

THE FOLLOWING DATA WERE DEVELOPED WITH: Permethrin General Purpose Aqueous Insecticide (EPA Reg No.4816-696) which contains 0.5% permethrin

**ACUTE TOXICITY**

ORAL LOSE (rat): > 5.050 mg/kg (practically non-toxic) –

DERMAL LOSO (rabbit): >5,050 mg/kg (practically non-toxic)

INHALATION LC50 (rat, 4hr): > 5.18 mg/L (practically non-toxic)

EYE IRRITATION (rabbit): non-irritating (Max. Avg. Score = 3.0)



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SKIN IRRITATION (rabbit): non-irritating (Primary irr Index = 0.0)

SKIN SENSITIZATION (guinea pig): non-sensitizing

**NOTE:** The severity classifications listed above are those of AgrEvo, and, particularly for eye irritation, may not always coincide with EPA-mandated Precautionary Statements.

**THE FOLLOWING DATA WERE DEVELOPED WITH: permethrin, the active ingredient.**

**CHRONIC TOXICITY AND CARCINOGENICITY**

A statistically significant increase in the incidence of lung and liver tumors was observed in female mice receiving diets containing 375 and 750 mg/kg/day of permethrin technical over 85 weeks.

**REPRODUCTIVE AND DEVELOPMENTAL TOXICITY**

Permethrin was not teratogenic when tested in rats.

**MUTAGENICITY (GENETIC EFFECTS)**

Permethrin did not produce any mutagenic effects when tested in the Ames test

**SECTION 12. ECOLOGICAL INFORMATION****ENVIRONMENTAL PRECAUTIONS**

This product is extremely toxic to fish. Do not apply directly to water. Do not contaminate water when disposing of equipment wash waters.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Do not contaminate water, food or feed by disposal.

Disposal: Do not reuse container. Wrap container in several layers of newspaper and discard in trash.

**RCRA INFORMATION**

RCRA HAZARDOUS WASTE INGREDIENTS: None

**SECTION 14 TRANSPORT INFORMATION**

PROPER SHIPPING NAME: Not DOT Regulated.

**NOTE:** For transport purposes (49 CFR Part I 73 132) the calculated 1-Hour LC50 (Rat) is: > 20.72 mg/l

**SECTION 15 REGULATORY INFORMATION****U.S. FEDERAL REGULATORY INFORMATION**

EPA Registration Number: 4816-756

TSCA Inventory: registered pesticide, exempt from TSCA

**CARCINOGENICITY: NTP: No IARC: No OSHA: No**

**SARA TITLE III SECTION 311/312 - HAZARD CLASSES:**

Acute Health Hazard - Yes

Chronic Health Hazard - No

Fire Hazard - No

Sudden Release of Pressure Hazard - No

Reactivity Hazard - No

**SARA TITLE III - NOTIFICATIONS AND INFORMATION**

Section 302 (EHS) ingredients: None

Section 304 (CERCLA & EHS) ingredients (RQ): None

**SARA TITLE III - SECTION 313 SUPPLIER NOTIFICATION**

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community

Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372

**CAS NUMBER**

52645-53-1

**INGREDIENT**

Permethrin

**NAME PERCENT BY WEIGHT**

= 0.25

This information must be included on all MSDS that are copied and distributed for this material.

**REGULATED INGREDIENTS**

INGREDIENT: Permethrin

CAS NUMBER: 52645-53-1



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PERCENT BY WEIGHT: = 0.25

Regulations: Massachusetts Hazardous Substance  
New Jersey workplace Hazardous Substance  
SARA Section 313 Toxic Chemical

**CANADIAN REGULATORY INFORMATION**PCP NUMBER: **27258**

WHIMIS Classification for Control Product Regulations (CPR): Registered pesticide under US FIFRA regulations; exempt from CPR classification.

The MSDS contains all CPR required hazard-related information.

WHIMIS HAZARD RATING: See HMIS rating (Section 16)

**SECTION 16. OTHER INFORMATION**

WHIMIS HAZARD RATING	-HEALTH:	1 Slight
	-FIRE:	1 Slight
	-REACTIVITY:	0 Negligible
	-PROTECTION:	B
NFPA HAZARD RATING	-HEALTH:	1 Slight
	-FIRE:	1 Slight
	-REACTIVITY:	0 Negligible
	-SPECIAL:	-

**MSDS IDENTIFICATION CODE/NUMBER: E72053**

PREPARED BY Regulatory Department PHONE (800) 438-5837

SUPERCEDES MSDS DATE: 70/30/95

DATE AND TIME OF PRINTING 10/04/99 09:43:51

MSDS Revision Indicators: Revisions made in

Section 1 (added product information number, trademark, product description),

Section 2 (changed inert ingredients to other ingredients),

Section 3 (changed Emergency Overview, deleted Eyes, chronic information),

Section 4 (changed Eyes, Skin, added Inhalation),

Section 5 (changed Fire Fighting Instructions, added Flammability Classification/Rating).

Section 6 (changed Accidental Release Measures),

Section 7 (changed Handling and Storage Precautions. Work Hygienic Practices),

Section 8 (Changed text under each subsection),

Section 9 (reformatted Basic Physical Properties),

Section 11 (reformatted acute toxicity data),

Section 12 (changed Environmental Precautions),

Section 13 (added to Disposal Considerations),

Section 14 (added 7-Hour LC50).

Section 15 (added to Regulatory Information) and

Section 16 (changed Disclaimer text).

**SECTION 17: ADDITIONAL INFORMATION**

THE INFORMATION ON THIS MATERIAL SAFETY

NOTICE FROM **ZEP**DATA SHEET IS PROVIDED BY **ZEP** FREE OF CHARGE. WHILE BELIEVED TO BE RELIABLE, IT IS INTENDED FOR USE BY SKILLED PERSONS AT THEIR OWN RISK.**ZEP** ASSUMES NO RESPONSIBILITY FOR EVENTS RESULTING OR DAMAGES INCURRED FROM ITS USE. THE INFORMATION ON THIS MATERIAL SAFETY DATA SHEET

RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN

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