



Prepared according to OSHA Hazard Communication Standard 29CFR 1910.1200

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY ADDRESS: Baer Enterprises Dba Zone Repellents 1629 Fourth Avenue SE Suite 138 Decatur, AL 35601 USA	EMERGENCY TELEPHONE NUMBERS: (800) 424-9300 (CHEMTREC, transportation and spills) Customer Service: zone-info@zoneprotects.com Technical Questions: zone-info@zoneprotects.com
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PRODUCT NAME	: Zone Protects Flea & Tick Yard Spray
PRODUCT USE	: Insecticide Spray
PRODUCT CODE	: 113-HES
USEPS REGISTRATION	: 6218-76-93362

SECTION 2 - HAZARDS IDENTIFICATION SUMMARY

EMERGENCY OVERVIEW:

HEALTH HAZARDS: Permethrin is a neurotoxin. Exposure may produce symptoms of neurotoxicity. Refer to Section 11.

ENVIRONMENTAL: Permethrin is considered acutely toxic to aquatic life. Permethrin has low avian toxicity. Refer to Section 12.

NFPA Hazard Rating

Health 1
Flammability 0
Reactivity 0

GHS Classification

Health 1
Flammability 0
Reactivity 0



SECTION 3 - COMPOSITION, INFORMATION OF INGREDIENTS

COMPONENT	PERCENTAGE (v/v)	CAS NUMBER
Inert Ingredients	97.5	Not Classified
Permethrin Tech	2.5	52645-53-1

SECTION 4 - FIRST AID MEASURES

First Aid responders should use protective equipment in Section 8 if there is a potential for exposure to product.

IF SWALLOWED: Have victim rinse mouth with water. NEVER give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. DO NOT INDUCE VOMITING. Contact a physician if warranted.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air, if person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Have a product container or label with you when calling a poison control center or doctor, or going for treatment.

NOTE TO PHYSICIAN: No specific antidote, treat symptomatically.



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SECTION 5 - FIRE FIGHTING MEASURES

National Fire Protection Rating (NFPA)

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

FLASHPOINT: Will not burn

EXTINGUISHING MEDIA: Use foam, dry chemical, or water spray.

FIRE AND EXPLOSION HAZARD: None expected

FIRE FIGHTING EQUIPMENT: Self-contained breathing apparatus with full face piece and full protective clothing

SECTION 6 - ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILLS OR LEAKS: Clean up spills immediately, observing precautions in Section 8 of this document. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

SMALL SPILL: Absorb small spills on sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal.

LARGE SPILL: Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, and scrape up for disposal. After removal, clean contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container.

This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Minimize use of water to prevent environmental contamination

SECTION 7 - HANDLING AND STORAGE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.
KEEP OUT OF REACH OF CHILDREN!

HANDLING: Read entire label before using. Use strictly in accordance with label precautionary statements and directions

STORAGE: Keep container closed when not in use. Keep away from food, feed and drinking water. Store in a well ventilated dry place away from heat, sparks, open flame or any other ignition sources. Store above 32 F.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

COMPONENT	CAS No.	%	OSHA PEL	ACIGH TLV

ENGINEERING CONTROLS: Proper ventilation is required when handling or using this product. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.



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PERSONAL PROTECTIVE EQUIPMENT: None required

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Milky liquid
Odor:	Mild slight chemical
pH:	6.0-8.0
Melting Point:	Not applicable
Boiling Point:	Greater than 200°F (93°C)
Flash Point:	Will not burn
Evaporation Rate:	No data
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Relative Density (H₂O=1):	1.01 g/mL (8.29 lb/gal)
Solubility in Water:	Emulsifies
Solubility in Solvents:	No data
Viscosity:	No data
Volatile Organic Compounds:	No data
Partition Coefficient:	Not determined

SECTION 10 - STABILITY AND REACTIVITY

PRODUCT REACTIVITY: Non-reactive

CHEMICAL STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Avoid extreme temperatures

INCOMPATIBLE MATERIALS: Oxidizing agents, acids, alkali metals, ammonia, peroxides, calcium hypochlorite, reducing agents

HAZARDOUS DECOMPOSITION PRODUCTS: May release irritating and toxic gases due to thermal decomposition

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity data from similar formulation

Acute oral toxicity: LD50 – >5000 mg/kg bw (rat) Method: unknown Source: IUCLID Datasheet ID: 64-17-5, 18-Feb-2000

Acute inhalation toxicity: LC50 – >2.05 mg/kg (rat-6hrs) Method: unknown Source: IUCLID Datasheet ID: 64-17-5, 18-Feb-2000

Acute dermal toxicity: LDLo – >2000 mg/kg bw (rabbit) Method: unknown Source: IUCLID Datasheet ID: 64-17-5, 18-Feb-2000

Irritant effect on skin: Slightly irritating (rabbit) Method: OECD Guide-Line 404 Source: IUCLID Datasheet ID: 64-17-5, 18-Feb-2000

Irritant effect on eyes: Slightly irritating (rabbit) Method: OECD Guide-Line 405 Source: IUCLID Datasheet ID: 64-17-5, 18-



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Feb-2000

Sensitization: Permethrin may cause tingling sensation known as parasthesia

Mutagenicity: Not determined

Carcinogenicity/Reproductive toxicity: Not likely and Not determined; None of the components present in this material at concentrations of 0.1% or greater are listed by IARC, NTP, OSHA or ACGIH as being carcinogens. Source: Safety Data Sheets of components

Specific Target Organ Toxicity: Single exposure (GHS) – no data available Repeated exposure (GHS) – no data available

Signs and Symptoms of Exposure: Irritation

POTENTIAL HEALTH EFFECTS

INHALATION: *May cause irritation to lungs*
SKIN CONTACT: *Slightly irritating*
EYE CONTACT: *Slightly irritating*
INGESTION: *Permethrin may induce neurotoxic symptoms including diarrhea, salivation, tremors, convulsions, hyperactivity and hypersensitivity to touch and sound.*

TARGET ORGANS: *Not classified*

SECTION 12 - ECOLOGICAL INFORMATION

General Comments: Ecotoxicological data have not been determined specifically for this product, but it is classified on the basis of the known hazards of the components.

Aquatic: LC₅₀ (96hrs) Rainbow Trout: 2.5 ug/L
LC₅₀ (96hrs) Bluegill: 1.8 ug/L
Avian: LD₅₀ Bobwhite Quail: >10,000 mg/kg
Mobility: Not Determined
Biodegradability: The average half-life of permethrin in aerobic soils is 39.5 days, with a range from 11.6 to 113 days. Permethrin binds tightly to soil and is broken down primarily by microorganisms but also photolysis.
Bioaccumulation: Unlikely to accumulate due to high acute toxicity
Toxicity: This product is extremely toxic to fish. Do not apply directly to water. Drifts and runoff from treated areas may be hazardous to aquatic organisms in treated areas.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Do not reuse any empty containers.

US: This product is a hazardous liquid waste (D001) as defined in Resource Conservation Recovery Act Regulations (40 CFR 261) and should be disposed of according to local, state and Federal regulations Dispose of partially filled and empty containers by wrapping and discarding in trash.



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International: This product should not be disposed of via the drains or by landfill. Disposal must be in accordance with current national and local regulations. Chemical residues generally count as special waste, and their disposal may be regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities or approved waste disposal companies who will advise you on how to dispose of special waste. General EU requirements are given in the Waste Framework Directive (75/442/EEC) and the Hazardous Waste Directive (91/689/EEC). Packaging may contain residues of the product and should be treated accordingly

SECTION 14 - TRANSPORT INFORMATION

DOT: Not regulated
IATA: Not regulated
IMDG: Not regulated
FMCC: Insecticide, liquid, other than agricultural NOIBN

SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCE CONTROL ACT): *Not listed*
CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): *None*
CERCLA HAZARDOUS SUBSTANCE: *None*
CERCLA REPORTABLE QUANTITIY: *None*
RCRA 261 (RESOURCE CONSERVATION RECOVERY ACT): *This product is defined as a hazardous waste (D001).*
311/312 HAZARD CLASS: *Acute Health Hazard*
313 REPORTABLE INGREDIENTS: *None*

U.S. STATE REGULATIONS:

None

SECTION 16 - OTHER INFORMATION

HMIS HAZARD RATINGS	HEALTH	1
	FLAMMABILITY	0
	PHYSICAL HAZARD	0
	4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

DISCLAIMER: The information presented herein is based on available data from reliable sources and is correct to the best of Baer Enterprises' knowledge. Baer Enterprises makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions.

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling.

It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

REVISED DATE: May 2022