



*Prepared according to OSHA Hazard Communication Standard 29CFR 1910.1200*

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

<b>COMPANY ADDRESS:</b>	<b>EMERGENCY TELEPHONE NUMBERS:</b>
Baer Enterprises	(800) 424-9300 (CHEMTREC, transportation and spills)
Db a Zone Repellents USA	(703) 527-3887 International
1629 Fourth Avenue SE	Customer Service: info@zonerepellents.com
Suite 138	Technical Questions: info@zonerepellents.com
Decatur, AL 35601 USA	

PRODUCT NAME	: <b>Zone Insect Repellent with Picaridin in bottles</b>
PRODUCT USE	: Insect Repellent
PRODUCT CODE	: EPA Reg. No. 93362-1

**SECTION 2 - HAZARDS IDENTIFICATION SUMMARY**

<b>HAZCOM Standard Status</b>	This materials is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)
<b>Physical State</b>	Liquid
<b>Classification of the Substance or Mixture</b>	FLAMMABLE LIQUIDS – Category 3 SKIN CORROSION/IRRITATION – Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION – Category 2A SKIN SENSITIZATION – Category 1 SPECIFIC TARGE ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation and narcotic effects] – Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) [Brain and nervous system] – Category 2
<b>Hazard Pictograms</b>	
<b>Signal Word</b>	Warning
<b>Hazard Statements</b>	Flammable liquid and vapor. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness and dizziness. May cause damage to organs through prolonged or repeated exposure. (brain, nervous system)
<b>Hazard Not Otherwise Classified (HNOC)</b>	Not known
<b>Precautionary Statements</b>	
<b>Prevention</b>	Wear protective gloves and eye/face protection. Keep away from heat, sparks, open flames and hot surfaces. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only in well-ventilated area. Do not breathe vapor. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
<b>Response</b>	Get medical attention if you feel unwell. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.



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<b>Storage</b>	Store locked up. Store in a well-ventilated place. Keep cool.
<b>Disposal</b>	Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Supplemental Label Elements</b>	Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink.

**SECTION 3 - COMPOSITION, INFORMATION OF INGREDIENTS**

COMPONENT	PERCENTAGE	CAS NUMBER
Picaridin [1-Piperidinecarboxylic acid, 2-(2-hydroxyethyl)-,1-methylpropyl ester]	20	119515-38-7
Ethyl Alcohol	20-30	64-17-5
Polyethylene Glycol 400	20-30	25322-68-3
Fragrance	0-1	n/a
Distilled Water	20-30	7732-18-5

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

**FLASHPOINT:** 82.4°F (28°C)

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

**FIRE AND EXPLOSION HAZARD:** Flammable – Explosive/hazardous vapors and flammable liquid. In case of fire, hazardous combustion gases may be formed:

Carbon Monoxide (CO)  
Carbon Dioxide (CO<sub>2</sub>)  
Nitrogen Oxides (NO<sub>x</sub>)

**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.



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**SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

COMPONENT	CAS No.	%	OSHA PEL	ACIGH TLV
Ethyl Alcohol	64-17-5	< 30	1000 ppm	1000 ppm

**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.

**PERSONAL PROTECTIVE EQUIPMENT:** None required

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Opaque liquid  
**Odor:** Moderate musky odor  
**pH:** 7.0 – 9.0  
**Melting Point:** Not applicable  
**Boiling Point:** Greater than 200°F (93°C)  
**Flash Point:** 82.4°F (28°C)  
**Evaporation Rate:** No data  
**Vapor Pressure:** Not applicable  
**Vapor Density:** Not applicable  
**Relative Density (H<sub>2</sub>O=1):** 0.98 g/mL (8.16 lb/gal)  
**Solubility in Water:** Soluble  
**Solubility in Solvents:** Soluble in alcohol  
**Viscosity:** 5-25 cP @ 77°F  
**Volatile Organic Compounds:** <36%  
**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:** Carbon dioxide, Carbon monoxide, Nitrogen oxides



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**SECTION 11 - TOXICOLOGICAL INFORMATION**

Acute toxicity data from similar formulation

**Acute oral toxicity:** LD50 – 6200 mg/kg bw (rat) Method: unknown Source: IUCLID Datasheet ID: 64-17-5, 18-Feb-2000

**Acute inhalation toxicity:** LC50 – 5.9 mg/l (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:** Non-irritating (rabbit) Method: OECD Guide-Line 404 Source: IUCLID Datasheet ID: 64-17-5, 18-Feb-2000

**Irritant effect on eyes:** Moderately irritating (rabbit) Method: OECD Guide-Line 405 Source: IUCLID Datasheet ID: 64-17-5, 18-Feb-2000

**Sensitization:** Not sensitizing (guinea pig) Method: unknown Source: IUCLID Datasheet ID: 64-17-5, 18-Feb-2000

**Mutagenicity:** Not determined

**Carcinogenicity/Reproductive toxicity:** 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, dryness and cracking of skin, may cause headaches and irritation to throat

**POTENTIAL HEALTH EFFECTS**

**INHALATION:** *May cause irritation to lungs*  
**SKIN CONTACT:** *Do not use over cuts, wounds or irritated skin. Pre-existing skin disorders may be aggravated by exposure*  
**EYE CONTACT:** *Prolonged contact may cause irritation, with redness, pain, tearing, blurred vision and conjunctivitis.*  
**INGESTION:** *May be harmful if swallowed*

**TARGET ORGANS:** *Respiratory system*

**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.

**Mobility:** The product is alcohol-based and expected to be mobile in the aquatic environment.

**Biodegradability:** Ethanol is expected to be biodegradable Source: Ethanol Manufacturers SDS

**Bioaccumulation:** Ethanol is not expected to bioaccumulate in the environment.

**Toxicity:** Ethanol is not classified as harmful or toxic to aquatic life. LC50 Rainbow Trout >10,000mg/L (96hr), Flathead minnow LC50 15,300 mg/L (96hr) Source: Ethanol Manufacturers SDS and IUCLID Datasheet



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**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.

**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**

**SHIPPING INFORMATION:** Marine Pollutant: No

Regulation	Un No.	Proper Shipping Name	Class	Package Group	Label	Additional Information
U.S. Department of Transportation (DOT)	1170	Ethanol solution	3	III		24, B1, IB3, T2, TP1
IMDG Class	1170	Ethanol solution	3	III		Emergency Schedules (EmS) F-E, S-D
IATA-DGR Class	1170	Ethanol solution	3	III		Passenger Aircraft 355:60L Cargo Aircraft 366:220L

The transportation regulations are cited according to international regulations and in the form applicable to the United States. Possible national deviations in other countries are not considered.

RG: 0 lbs



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**SECTION 15 - REGULATORY INFORMATION**

**U.S. FEDERAL REGULATIONS:**

TSCA (TOXIC SUBSTANCE CONTROL ACT): *All components of this product are listed or exempt on the TSCA list*

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): *None*

CERCLA HAZARDOUS SUBSTANCE: *None*

CERCLA REPORTABLE QUANTITY: *None*

RCRA 261 (RESOURCE CONSERVATION RECOVERY ACT): *This product is defined as a hazardous waste (D001).*

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Section 302 Extremely Hazardous Substances (TPQ): *None*

311/312 HAZARD CLASS: *None*

313 REPORTABLE INGREDIENTS: *None*

**U.S. STATE REGULATIONS:**

California Proposition 65 Warning: *Ethyl alcohol (64-17-5) when in alcoholic beverages. This product may contain trace amounts of Ethylene Oxide (CAS Number 75-21-8). This is a chemical known to the state of California to cause cancer.*

States Right to Know: *Ethyl alcohol (64-17-5) Pennsylvania, Rhode Island, Florida, Massachusetts, New Jersey, Tennessee, California; 1-Piperidinecarboxylic acid, 3-(2-hydroxyethyl)-, 1-methylpropylester (119515-38-7) Pennsylvania*

**SECTION 16 - OTHER INFORMATION**

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

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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:** April 2019