

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Trade name : BUGGINS Insect Repellent IV - Aerosol  
Other means of identification : BuggSpray Insect Repellent. EPA Reg No. 67867-4

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Pesticides  
Recommended use : Insect Repellent (intended to be applied to the skin)  
Restrictions on use : None known

#### 1.3. Supplier

Bugg Products LLC  
14505 21st Ave N Ste 214  
Plymouth, MN 55447  
T (866) 720-2844

#### 1.4. Emergency telephone number

Emergency number : (866) 720-2844

### SECTION 2: Hazard(s) identification


#### 2.1. Classification of the substance or mixture

##### GHS US classification

Flammable aerosol Category 1	Extremely flammable aerosol
Gases under pressure Dissolved gas	Contains gas under pressure; may explode if heated
Eye irritation Category 2	Causes serious eye irritation

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) : 

Signal word (GHS US) : Danger

Hazard statements (GHS US) : Extremely flammable aerosol  
Contains gas under pressure; may explode if heated  
Causes serious eye irritation

Precautionary statements (GHS US) : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Do not spray on an open flame or other ignition source.  
Pressurized container: Do not pierce or burn, even after use.  
Wash hands, forearms and face thoroughly after handling.  
Wear eye protection.  
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 advice/attention.  
Protect from sunlight. Store in a well-ventilated place.  
Do not expose to temperatures exceeding 50 °C/ 122 °F.

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According to 29CFR 1910.1200 OSHA Hazard Communication Standard

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

No additional information available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%
Ethanol	CAS-No.: 64-17-5	70 – 75
diethyltoluamide (ISO): N, N-diethyl-m-toluamide; [deet]	CAS-No.: 134-62-3	25

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms occur.
First-aid measures after skin contact	: Insect Repellent (intended to be applied to the skin). No first aid should be needed. If skin irritation occurs: Discontinue use. Take off contaminated clothing and wash it before reuse. Wash skin with plenty of water. Get medical advice if skin irritation persists.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists.
First-aid measures after ingestion	: Rinse mouth. Call a poison center or a doctor if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Inhalation	: May cause minor irritation to the respiratory tract and to other mucous membranes.
Skin	: No adverse effects expected under normal conditions of use.
Eyes	: Causes serious eye irritation.
Ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic symptoms	: No chronic health hazards are likely for this material.

### 4.3. Immediate medical attention and special treatment, if necessary

Not required. Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water spray. Use extinguishing media appropriate for surrounding fire. Cool down the containers exposed to heat with a water spray.
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### 5.2. Specific hazards arising from the chemical

Fire hazard	: Extremely flammable aerosol. Contents under pressure. On combustion, forms: carbon oxides (CO and CO <sub>2</sub> ). Keep away from open flames, hot surfaces and sources of ignition.
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Explosion hazard : Contains gas under pressure; may explode if heated.

### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Use shielding to protect from bursting cans. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No flames, no sparks. Eliminate all sources of ignition. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. Absorb with an inert material and place in an appropriate waste disposal container. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of contaminated materials refer to section 13: "Disposal considerations".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Read and understand the entire label before using. Use only according to label directions. It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with eyes. Wear proper protective equipment.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store away from strong oxidizers, strong bases, strong acids. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a well-ventilated place. Keep cool. U.F.C. (NFPA 30B) Level II Aerosol.

Incompatible materials : Synthetic material. Rayon. acetate. Plastic articles.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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### BUGGINS Insect Repellent IV - Aerosol

No additional information available

### Ethanol (64-17-5)

#### USA - ACGIH - Occupational Exposure Limits

Local name	Ethanol
ACGIH OEL STEL [ppm]	1000 ppm

#### USA - OSHA - Occupational Exposure Limits

Local name	Ethyl alcohol (Ethanol)
OSHA PEL (TWA)	1900 mg/m <sup>3</sup>
OSHA PEL (TWA)	1000 ppm

### diethyltoluamide (ISO): N, N-diethyl-m-toluamide; [deet] (134-62-3)

No additional information available

## 8.2. Appropriate engineering controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation.  
Environmental exposure controls : Avoid release to the environment.

## 8.3. Individual protection measures/Personal protective equipment

### Hand protection:

None under normal conditions

### Eye protection:

No special eye protection equipment recommended under normal conditions of use. Avoid contact with eyes

### Skin and body protection:

None under normal conditions

### Respiratory protection:

No respiratory protection needed under normal use conditions

### Thermal hazard protection:

Not applicable.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Aerosol can. Transparent. Colorless liquid.
Color	: Colorless
Odor	: Pleasant odour Odourless
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 100 °F
Flash point	: 70 °F
Relative evaporation rate (butyl acetate=1)	: No data available

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Flammability (solid, gas)	: Extremely flammable aerosol.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: Miscible with water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: Lower explosion limit: 3.5 vol % Upper explosion limit: 15 vol %
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

Gas group : Press. Gas (Diss.)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Extremely flammable aerosol. The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

### 10.5. Incompatible materials

Keep away from oxidizers, strong acids and strong bases.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

#### BUGGINS Insect Repellent IV - Aerosol

LD50 dermal rat	> 2000 mg/kg
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#### Ethanol (64-17-5)

LD50 oral rat	15010 mg/kg body weight
LD50 oral	8300 mg/kg body weight

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### Ethanol (64-17-5)

LC50 Inhalation - Rat (Vapours)	≈ 116.9 mg/l/4h
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### diethyltoluamide (ISO): N, N-diethyl-m-toluamide; [deet] (134-62-3)

LD50 oral rat	1892 mg/kg
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Skin corrosion/irritation	: Not classified. No adverse effects expected under normal conditions of use.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

### Ethanol (64-17-5)

NOAEL (subchronic,oral,animal/male,90 days)	< 9700 mg/kg body weight
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Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Inhalation	: May cause minor irritation to the respiratory tract and to other mucous membranes.
Skin	: No adverse effects expected under normal conditions of use.
Eyes	: Causes serious eye irritation.
Ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic symptoms	: No chronic health hazards are likely for this material.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
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### Ethanol (64-17-5)

LC50 - Fish [1]	14.2 g/l Pimephales promelas (Fathead minnow)
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EC50 - Crustacea [1]	> 100 mg/l
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NOEC (chronic)	9.6 mg/l Daphnia magna (Water flea)
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### 12.2. Persistence and degradability

### Ethanol (64-17-5)

Persistence and degradability	Readily biodegradable.
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### diethyltoluamide (ISO): N, N-diethyl-m-toluamide; [deet] (134-62-3)

Persistence and degradability	Biodegradable.
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### 12.3. Bioaccumulative potential

### Ethanol (64-17-5)

Bioaccumulative potential	Low bioaccumulation potential.
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### diethyltoluamide (ISO): N, N-diethyl-m-toluamide; [deet] (134-62-3)

Bioaccumulative potential	Low bioaccumulation potential.
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### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods




Waste treatment methods : Contains pesticides or empty packaging from pesticides. Refer to product label for additional information on use and handling.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Flammable vapors may accumulate in the container.

## SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
<b>14.1. UN number</b>		
1950	1950	1950
<b>14.2. Proper Shipping Name</b>		
Aerosols	AEROSOLS	Aerosols, flammable
<b>14.3. Transport hazard class(es)</b>		
2.1	2.1	2.1
 Not applicable		
<b>14.4. Packing group</b>		
Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available		

### 14.6. Special precautions for user

**DOT**

UN-No.(DOT) : UN1950

DOT Special Provisions (49 CFR 172.102) : N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.

DOT Packaging Exceptions (49 CFR 173.xxx) : 306

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 75 kg

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 150 kg

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DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 25 - Protected from sources of heat, 87 - Stow "separated from" Class 1 (explosives) except Division 14, 126 - Segregation same as for Class 9, miscellaneous hazardous materials

<b>IMDG</b>	
Special provision (IMDG)	: 63, 190, 277, 327, 344, 381, 959
Limited quantities (IMDG)	: SP277
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P207, LP200
Packing provisions (IMDG)	: PP87, L2
EmS-No. (Fire)	: F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES
EmS-No. (Spillage)	: S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE)
Stowage category (IMDG)	: None
Stowage and handling (IMDG)	: SW1, SW22
Segregation (IMDG)	: SG69

<b>IATA</b>	
PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 203
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 150kg
Special provision (IATA)	: A145, A167, A802
ERG code (IATA)	: 10L

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### BUGGINS Insect Repellent IV - Aerosol

SARA Section 311/312 Hazard Classes	Refer to Section 2 for OSHA Hazard Classification.
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All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### FIFRA Labelling

EPA Registration Number	67867-4
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# BUGGINS Insect Repellent IV - Aerosol (BOV)

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According to 29CFR 1910.1200 OSHA Hazard Communication Standard

### FIFRA Labelling

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

#### HAZARD TO HUMANS AND DOMESTIC ANIMALS –

**WARNING:** Causes substantial but temporary eye injury. Do not get in eyes. Harmful if swallowed. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Do not apply over cuts, wounds, or irritated skin. Do not apply near eyes and mouth. Apply sparingly around ears. Do not apply to children's hands. Use of this product may cause skin reactions in rare cases. If you suspect a reaction to this product, discontinue use, wash treated skin and call your local poison control center. If you go to a doctor, take this repellent product with you.

#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in a secure, preferably locked storage area away from heat or open flame in an area that is inaccessible to children.

#### PESTICIDE DISPOSAL & CONTAINER HANDLING:

Non-refillable container. Do not reuse or refill this container.

**If empty** - Place in trash or offer for recycling, if available.

**If partly filled** - Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

### 15.2. International regulations

#### CANADA

##### Ethanol (64-17-5)

Listed on the Canadian DSL (Domestic Substances List)

##### diethyltoluamide (ISO): N, N-diethyl-m-toluamide; [deet] (134-62-3)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

No additional information available

#### National regulations

### BUGGINS Insect Repellent IV - Aerosol

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label

##### Ethanol (64-17-5)

Listed on IARC (International Agency for Research on Cancer)

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

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Component	State or local regulations
Ethanol(64-17-5)	U.S. - New Jersey - Right to Know Hazardous Substance List

### SECTION 16: Other information

According to 29CFR 1910.1200 OSHA Hazard Communication Standard

Revision date : 6/1/2023

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product