

	<b>Absorbine® UltraShield® Green Natural Insect Repellent</b>  <b>SAFETY DATA SHEET</b> According to 29CFR 1910.1200 OSHA Hazard Communication Standard	Document Code:	SDS-0019
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## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture  
 Product name : Absorbine® UltraShield® Green Natural Insect Repellent  
 Product number : 429512, 429520

### 1.2. Recommended use and restrictions on use

Recommended use : Fly or tick repellent  
 Restrictions on use : 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.

### 1.3. Supplier

#### Manufacturer

W.F. Young, Inc.  
 302 Benton Drive  
 East Longmeadow, MA 01028  
 USA  
 T (413) 526-9999 x 468 - F (413) 526-9869  
[www.wfyoung.com](http://www.wfyoung.com)

### 1.4. Emergency telephone number

Emergency number : Company Hotline: +1 (413) 526-9999

## SECTION 2: Hazard(s) identification


### 2.1. Classification of the substance or mixture

#### GHS US classification

Eye irritation Category 2A Causes serious eye irritation  
 Skin sensitization, Category 1 May cause an allergic skin reaction

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

#### GHS US labeling

Hazard pictograms (GHS US) : 

Signal word (GHS US) : Warning

Hazard statements (GHS US) : May cause an allergic skin reaction  
 Causes serious eye irritation

Precautionary statements (GHS US) : Avoid breathing mist, vapors.  
 Wash hands thoroughly after handling.  
 Contaminated work clothing must not be allowed out of the workplace.  
 Wear eye protection, protective gloves.  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Creator	Controller	Approvers
Victor Vides Regulatory Manager	Victor Vides Regulatory Manager	Michael Carlson - Director of Quality Audra Mulligan - Regulatory Director

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If eye irritation persists: Get medical advice/attention.  
 If on skin: Wash with plenty of soap and water.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 Wash contaminated clothing before reuse.  
 Dispose of contents/container to a hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 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	%
Glycerin	CAS-No.: 56-81-5	10 – 30
Geraniol	CAS-No.: 106-24-1	1.4
Clove Leaf Oil	CAS-No.: 8000-34-8	0.16
Citronella oil	CAS-No.: 8000-29-1	0.12
Cedarwood oil	CAS-No.: 68990-83-0	0.1
Lemongrass Oil	CAS-No.: 8007-02-1	0.1
Rosemary Oil	CAS-No.: 8000-25-7	0.1
Thyme Oil	CAS-No.: 8007-46-3	0.02

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret  
 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.  
 First-aid measures after skin contact : Wash skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.  
 First-aid measures after eye contact : 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.  
 First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects : May cause moderate irritation to the eyes. May cause an allergic skin reaction.  
Chronic symptoms : None known.

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

Treat symptomatically.

### SECTION 5: Fire-fighting measures

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

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.  
Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

Fire hazard : This product is not classified as flammable or combustible.  
Hazardous decomposition products in case of fire : Carbon oxides (CO, CO2).

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

Firefighting instructions : Cool down the containers exposed to heat with a water spray. Fight fire from safe distance and protected location.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Use self-contained breathing apparatus and chemically protective clothing.

### SECTION 6: Accidental release measures

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

General measures : Do not touch or walk on the spilled product. Avoid contact with skin, eyes and clothing. Always wash hands after handling the product. Use personal protective equipment as required.

##### 6.1.1. For non-emergency personnel

Emergency procedures : Avoid contact with skin and eyes. Avoid breathing mist, vapors. Ventilate spillage area.

##### 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

For containment : Stop leak if safe to do so.  
Methods for cleaning up : Absorb and/or contain spill with inert material, then place in suitable container.  
Other information : Dispose of materials or solid residues at an authorized site.

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#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling	: Avoid contact with eyes, skin and clothing. Wear personal protective equipment. Avoid breathing mist, vapors. Ensure adequate ventilation.
Hygiene measures	: Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

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

Storage conditions	: Store in dry, well-ventilated area. Keep away from heat and direct sunlight. Keep container tightly closed.
Packaging materials	: Store always product in container of same material as original container.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

<b>Glycerin (56-81-5)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA	10 mg/m <sup>3</sup>
<b>USA - OSHA - Occupational Exposure Limits</b>	
Local name	Glycerin (mist)
OSHA PEL (TWA)	15 mg/m <sup>3</sup> (Total dust) 5 mg/m <sup>3</sup> (Respirable fraction)
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

#### 8.2. Appropriate engineering controls

Appropriate engineering controls	: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.
Environmental exposure controls	: Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

##### Personal protective equipment:

Wear recommended personal protective equipment.

##### Hand protection:

Wear impervious gloves.

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**Eye protection:**

Wear safety goggles or other eye protection to prevent eye contact.

**Skin and body protection:**

Wear suitable protective clothing

**Respiratory protection:**

In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

**SECTION 9: Physical and chemical properties**

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

Physical state	: Liquid
Appearance	: Pump spray.
Color	: Cloudy
Odor	: Herbal
Odor threshold	: No data available
pH	: 5.5 – 6.5
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 100 °C
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: Soluble in 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	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

**9.2. Other information**

No additional information available

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

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

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### 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

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Oxidizing agents, reducing agents, acids, 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

<b>Glycerin (56-81-5)</b>	
LD50 oral rat	27200 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Female, Experimental value, Oral)
LD50 oral	25000 mg/kg body weight
LD50 dermal	56750 mg/kg (4 day(s), Guinea pig, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 2.75 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male, Converted value, Inhalation (vapours))
LC50 Inhalation - Rat (Dust/Mist)	50100 mg/l
LC50 Inhalation - Rat (Vapours)	> 2.75 mg/l Source: ECHA

<b>Cedarwood oil (68990-83-0)</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

<b>Clove Leaf Oil (8000-34-8)</b>	
LD50 oral rat	1370 mg/kg
LD50 dermal rabbit	1200 mg/kg
ATE US (oral)	1370 mg/kg body weight
ATE US (dermal)	1200 mg/kg body weight

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### Citronella oil (8000-29-1)

LD50 oral rat	300 – 2000 mg/kg body weight
LD50 dermal rabbit	4700 mg/kg
ATE US (oral)	300 mg/kg body weight
ATE US (dermal)	4700 mg/kg body weight

### Geraniol (106-24-1)

LD50 oral rat	3600 mg/kg body weight
LD50 dermal rabbit	> 5000 mg/kg body weight
ATE US (oral)	3600 mg/kg body weight

### Rosemary Oil (8000-25-7)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 10000 mg/kg

- Skin corrosion/irritation : Not classified  
pH: 5.5 – 6.5
- Serious eye damage/irritation : Causes serious eye irritation.  
pH: 5.5 – 6.5
- Respiratory or skin sensitization : May cause an allergic skin reaction.
- Germ cell mutagenicity : Not classified
- Carcinogenicity : Not classified

### Geraniol (106-24-1)

NOAEL (chronic,oral,animal/male,2 years)	60 mg/kg body weight
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- Reproductive toxicity : Not classified

### Citronella oil (8000-29-1)

NOAEL (animal/male, F1)	708 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEL (animal/female, F1)	88 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

- STOT-single exposure : Not classified
- STOT-repeated exposure : Not classified

### Geraniol (106-24-1)

NOAEL (dermal,rat/rabbit,90 days)	300 mg/kg body weight
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- Aspiration hazard : Not classified
- Viscosity, kinematic : No data available

### Glycerin (56-81-5)

Viscosity, kinematic	1119.746 mm <sup>2</sup> /s
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- Symptoms/effects : May cause moderate irritation to the eyes. May cause an allergic skin reaction.

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Chronic symptoms : None known.

## 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.

Glycerin (56-81-5)	
LC50 - Fish [1]	54000 mg/l (96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	> 10000 mg/l (24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
EC50 - Other aquatic organisms [1]	> 10000 mg/l waterflea
EC50 - Other aquatic organisms [2]	> 10000 mg/l

Cedarwood oil (68990-83-0)	
LC50 - Fish [1]	6.8 mg/l Cyprinus carpio (Common carp)
EC50 - Crustacea [1]	0.76 mg/l EC50 48h - Daphnia magna [mg/l]

Geraniol (106-24-1)	
LC50 - Fish [1]	≈ 22 mg/l Danio rerio (Zebrafish)
EC50 - Crustacea [1]	10.8 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	13.1 mg/l Desmodesmus subspicatus
ErC50 algae	13.9 mg/l

### 12.2. Persistence and degradability

UltraShield® Green Natural Fly Repellent	
Persistence and degradability	Not rapidly degradable

Glycerin (56-81-5)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.87 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.16 g O <sub>2</sub> /g substance
ThOD	1.217 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.71

Cedarwood oil (68990-83-0)	
Persistence and degradability	Rapidly degradable

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### Clove Leaf Oil (8000-34-8)

Persistence and degradability	Rapidly degradable
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### Citronella oil (8000-29-1)

Persistence and degradability	Rapidly degradable
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### Geraniol (106-24-1)

Persistence and degradability	Readily biodegradable.
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### Lemongrass Oil (8007-02-1)

Persistence and degradability	Rapidly degradable
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### Rosemary Oil (8000-25-7)

Persistence and degradability	Rapidly degradable
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### Thyme Oil (8007-46-3)

Persistence and degradability	Rapidly degradable
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### 12.3. Bioaccumulative potential

#### Glycerin (56-81-5)

Partition coefficient n-octanol/water (Log Pow)	-1.75 (Experimental value, Equivalent or similar to OECD 107, 25 °C)
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Bioaccumulative potential	Not bioaccumulative.
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#### Geraniol (106-24-1)

Partition coefficient n-octanol/water (Log Pow)	2.6
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Bioaccumulative potential	Bioaccumulation is not expected to occur.
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### 12.4. Mobility in soil

#### Glycerin (56-81-5)

Surface tension	0.0634 N/m (20 °C, 1000 g/l)
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Ecology - soil	No (test)data on mobility of the substance available.
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### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of in accordance with applicable federal, state, and local regulations.

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**SECTION 14: Transport information**

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
<b>14.1. UN number</b>		
Not regulated for transport		
<b>14.2. Proper Shipping Name</b>		
Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>		
Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>		
Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>		
Not regulated	Not regulated	Not regulated
No supplementary information available		

**14.6. Special precautions for user**

- DOT**  
Not regulated
- IMDG**  
Not regulated
- IATA**  
Not regulated

**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**

<b>UltraShield® Green Natural Fly Repellent</b>	
SARA Section 311/312 Hazard Classes	Refer to Section 2 for OSHA Hazard Classification.

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

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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.

## 15.2. International regulations

### CANADA

#### Glycerin (56-81-5)

Listed on the Canadian DSL (Domestic Substances List)

#### Cedarwood oil (68990-83-0)

Listed on the Canadian DSL (Domestic Substances List)

#### Clove Leaf Oil (8000-34-8)

Listed on the Canadian DSL (Domestic Substances List)

#### Citronella oil (8000-29-1)

Listed on the Canadian DSL (Domestic Substances List)

#### Geraniol (106-24-1)

Listed on the Canadian DSL (Domestic Substances List)

#### Lemongrass Oil (8007-02-1)

Listed on the Canadian DSL (Domestic Substances List)

#### Rosemary Oil (8000-25-7)

Listed on the Canadian DSL (Domestic Substances List)

#### Thyme Oil (8007-46-3)

Listed on the Canadian DSL (Domestic Substances List)

### EU-Regulations

No additional information available

### National regulations

No additional information available

## 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
Glycerin(56-81-5)	U.S. - New Jersey - Right to Know Hazardous Substance List

## SECTION 16: Other information

According to 29CFR 1910.1200 OSHA Hazard Communication Standard

Safety Data Sheet (SDS), USA

WF Young, Inc. urges each customer or recipient of this Safety Data Sheet to study it carefully and consult, if necessary or appropriate, experts in the field to be aware of the information contained in this SDS and any hazards associated with this product and understand them. Information herein is provided in good faith and believed to be accurate as of the date shown above. However, no warranty is given, either expressed or implied. The Regulatory requirements are subject to change and may vary by location. There is the responsibility of the purchaser / user to ensure that its activities comply with legislation. The information presented here pertains only to the product as shipped. The terms of use of the product are not under the control of the manufacturer, it is the duty of the purchaser / user to determine the conditions necessary for the safe use of this product. Due to the proliferation of information sources such as the Data Sheets (MSDS) specific to a manufacturer, we are not responsible and cannot be held accountable for SDSs obtained from any source other than ourselves. If you obtained an SDS from another source or if you are worried that your SDS is outdated, please contact us for the latest version.

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