

	Absorbine® UltraShield® Insecticide & Repellent Gold SAFETY DATA SHEET According to 29CFR 1910.1200 OSHA Hazard Communication Standard	Document Code:	SDS-0016
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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	%
Octanoic acid	CAS-No.: 124-07-2	1.66
Nonanoic acid	CAS-No.: 112-05-0	1.66
Decanoic acid	CAS-No.: 334-48-5	1.66
Piperonyl butoxide	CAS-No.: 51-03-6	1.0
Permethrin	CAS-No.: 52645-53-1	0.5
Pyrethrins	CAS-No.: 8003-34-7	0.1

*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. Wash contaminated clothing before reuse.
 First-aid measures after eye contact : Rinse eyes with water as a precaution.
 First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects : May cause minor eye irritation. May cause slight irritation to the skin. May cause minor irritation to the respiratory tract and to other mucous membranes. Ingestion may cause nausea, vomiting and diarrhea.
 Chronic symptoms : None known.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

5.2. Specific hazards arising from the chemical

Fire hazard : This product is not classified as flammable or combustible. Exposure to fire may cause containers to rupture/explode.

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO2). Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Cool down the containers exposed to heat with a water spray. Do not allow run-off from firefighting to enter drains or water courses.

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 eyes, skin and clothing.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : 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 possible without risk.

Methods for cleaning up : Absorb and/or contain spill with inert material, then place in suitable 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 13.

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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 good ventilation of the work station. Non-refillable container. Do not reuse or refill this container. Refer to product label for additional information on use and handling.
- Hygiene measures : Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove contaminated clothes. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a cool, dry (preferably locked) place that is away from heat or open flame, in an area that is protected from freezing (above 32°F) and is also inaccessible to children and animals. Keep container closed when not in use. Keep away from children.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Pyrethrins (8003-34-7)

USA - ACGIH - Occupational Exposure Limits

Local name	Pyrethrum
ACGIH OEL TWA	5 mg/m ³
Remark (ACGIH)	TLV® Basis: Liver dam; LRT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2024

USA - OSHA - Occupational Exposure Limits

Local name	Pyrethrum
OSHA PEL (TWA)	5 mg/m ³
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. Consult supplier for specific recommendations.

Eye protection:

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

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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
Color	: White
Odor	: Characteristic
Odor threshold	: No data available
pH	: 4.75
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 100 °C
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
Density	: 0.996
Solubility	: No data available
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.

10.2. Chemical stability

Stable under normal conditions.

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10.3. Possibility of hazardous reactions

Do not mix or allow coming into contact with oxidizing agents. Hazardous chemical reaction may occur.

10.4. Conditions to avoid

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

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

Absorbine® Ultra Shield® Insecticide & Repellent Gold

LD50 oral rat	> 2000 mg/kg US EPA OCSP 870.1100
LD50 dermal rat	> 2000 mg/kg US EPA OCSP 870.1200
LC50 Inhalation - Rat	> 2.25 mg/l US EPA OCSP 870.1300

Pyrethrins (8003-34-7)

LD50 oral rat	584 – 900 mg/kg
LD50 dermal rat	1350 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	3.4 mg/l/4h

Piperonyl butoxide (51-03-6)

LD50 oral rat	5630 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> 5.9 mg/l/4h

Permethrin (52645-53-1)

LD50 oral rat	600 mg/kg
LD50 dermal rat	2500 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Octanoic acid (124-07-2)

LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

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Nonanoic acid (112-05-0)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> 5.997 mg/l/4h

Decanoic acid (334-48-5)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg

Skin corrosion/irritation	: This product is expected to be non-irritating to skin based on test data from the US EPA OCSPP 870.2500 Acute Skin irritation study. pH: 4.75
Serious eye damage/irritation	: This product is expected to be non-irritating to eyes based on test data from the US EPA OCSPP 870.2400 Acute Eye Irritation Study. pH: 4.75
Respiratory or skin sensitization	: This product is not expected to cause skin sensitization based on test data from the US EPA OCSPP 870.2600 Skin Sensitization study.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Piperonyl butoxide (51-03-6)	
IARC group	3 - Not classifiable

Permethrin (52645-53-1)	
IARC group	3 - Not classifiable

Nonanoic acid (112-05-0)	
NOAEL (chronic,oral,animal/male,2 years)	400 mg/kg body weight Animal: mouse, Animal sex: male, Remarks on results: other:Effect type: carcinogenicity (migrated information)

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

Piperonyl butoxide (51-03-6)	
LOAEL (dermal,rat/rabbit,90 days)	≥ 1000 mg/kg body weight Animal: rabbit, Guideline: EPA OPP 82-2 (Repeated Dose Dermal Toxicity -21/28 Days)
NOAEL (dermal,rat/rabbit,90 days)	≥ 1000 mg/kg body weight Animal: rabbit, Guideline: EPA OPP 82-2 (Repeated Dose Dermal Toxicity -21/28 Days)

Octanoic acid (124-07-2)	
NOAEL (oral,rat,90 days)	1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available

Nonanoic acid (112-05-0)	
Viscosity, kinematic	8.976 mm²/s

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Decanoic acid (334-48-5)

Viscosity, kinematic	6 mm ² /s Temp.: '40°C' Parameter: 'kinematic viscosity (in mm ² /s)'
Symptoms/effects	: May cause minor eye irritation. May cause slight irritation to the skin. May cause minor irritation to the respiratory tract and to other mucous membranes. Ingestion may cause nausea, vomiting and diarrhea.
Chronic symptoms	: None known.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Pyrethrins (8003-34-7)

LC50 - Fish [1]	0.0032 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 - Crustacea [1]	0.025 mg/l Daphnia Pulex

Piperonyl butoxide (51-03-6)

LC50 - Fish [1]	5.37 mg/l Lepomis macrochirus (Bluegill)
EC50 - Crustacea [1]	510 µg/l Daphnia magna (Water flea)
LC50 - Fish [2]	3.94 mg/l Cyprinodon variegatus (sheepshead minnow)
EC50 72h - Algae [1]	3.89 mg/l Pseudokirchneriella subcapitata
NOEC (chronic)	0.03 mg/l Daphnia magna (Water flea)
NOEC chronic fish	0.18 mg/l Pimephales promelas (Fathead minnow)

Permethrin (52645-53-1)

LC50 - Fish [1]	0.00079 mg/l Lepomis macrochirus (Bluegill)
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Octanoic acid (124-07-2)

LC50 - Fish [1]	22 mg/l Lepomis macrochirus (Bluegill)
EC50 - Crustacea [1]	> 21 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	43.73 mg/l Raphidocelis subcapitata
LOEC (chronic)	0.64 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.2 mg/l Daphnia magna (Water flea)
NOEC chronic fish	6.4 mg/l Danio rerio (Zebrafish)

Nonanoic acid (112-05-0)

LC50 - Fish [1]	104 mg/l Pimephales promelas (Fathead minnow)
EC50 - Crustacea [1]	96 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	60 mg/l Pseudokirchneriella subcapitata
EC50 72h - Algae [2]	52 mg/l Pseudokirchneriella subcapitata

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Nonanoic acid (112-05-0)

NOEC (chronic) 18 mg/l Daphnia magna (Water flea)

Decanoic acid (334-48-5)

LC50 - Fish [1] 18.9 mg/l Lepomis macrochirus (Bluegill)

EC50 - Crustacea [1] > 21 mg/l Daphnia magna (Water flea)

EC50 - Crustacea [2] 41 mg/l

EC50 72h - Algae [1] 15 mg/l Raphidocelis subcapitata

LOEC (chronic) 0.64 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

NOEC (chronic) 0.2 mg/l Daphnia magna (Water flea)

NOEC chronic fish 6.4 mg/l Danio rerio (Zebrafish)

12.2. Persistence and degradability

Absorbine® Ultra Shield® Insecticide & Repellent Gold

Persistence and degradability Not rapidly degradable

Pyrethrins (8003-34-7)

Persistence and degradability Rapidly degradable

Piperonyl butoxide (51-03-6)

Persistence and degradability Not rapidly degradable

Permethrin (52645-53-1)

Persistence and degradability Rapidly degradable

Octanoic acid (124-07-2)

Persistence and degradability Readily biodegradable.

Nonanoic acid (112-05-0)

Persistence and degradability Rapidly degradable

Decanoic acid (334-48-5)

Persistence and degradability Readily biodegradable.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Disposal methods

Regional waste regulation : Dispose of in accordance with applicable federal, state, and local regulations.
 Product/Packaging disposal recommendations : Non-refillable container. Do not reuse or refill this container. If empty: Place in trash or offer for recycling if available. If partly filled: Do not pour or dispose down-the-drain or sewer. Call your local solid waste agency for local disposal options. Never place unused product down any indoor or outdoor drain.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
14.1. UN number		
Not regulated	3082	3082
14.2. Proper Shipping Name		
Not regulated	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pyrethrins ; Permethrin)	Environmentally hazardous substance, liquid, n.o.s. (Pyrethrins ; Permethrin)
14.3. Transport hazard class(es)		
Not regulated	9	9
		
14.4. Packing group		
Not regulated	III	III
14.5. Environmental hazards		
Not regulated	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes

Note: Inner packages containing net quantities of less than 5 kg/5 L are exempt per IMDG Code 2.10.2.7 and ICAO Special Provision A197.

14.6. Special precautions for user

DOT
Not regulated

IMDG
 Special provision (IMDG) : 274, 335, 969
 Limited quantities (IMDG) : 5 L
 Excepted quantities (IMDG) : E1
 Packing instructions (IMDG) : LP01, P001
 Packing provisions (IMDG) : PP1
 IBC packing instructions (IMDG) : IBC03

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Tank instructions (IMDG) : T4
 Tank special provisions (IMDG) : TP1, TP29
 EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
 EmS-No. (Spillage) : S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS
 Stowage category (IMDG) : A

IATA
 PCA Excepted quantities (IATA) : E1
 PCA Limited quantities (IATA) : Y964
 PCA limited quantity max net quantity (IATA) : 30kgG
 PCA packing instructions (IATA) : 964
 PCA max net quantity (IATA) : 450L
 CAO packing instructions (IATA) : 964
 CAO max net quantity (IATA) : 450L
 Special provision (IATA) : A97, A158, A197, A215
 ERG code (IATA) : 9L

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

Absorbine® Ultra Shield® Insecticide & Repellent Gold

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.

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Piperonyl butoxide	CAS-No. 51-03-6	1.0%
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Pyrethrins (8003-34-7)

CERCLA RQ	1 lb
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FIFRA Labelling

EPA Registration Number	1543-17
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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.

FIFRA Signal Word	Caution
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FIFRA Precautionary Statement	Keep out of reach of children. Hazards to Humans and Domestic Animals.
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FIFRA Labelling

FIFRA Human Health Hazards	Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eye, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes, and (waterproof or chemical-resistant) gloves.
FIFRA Environmental Hazards	This pesticide is extremely toxic to aquatic organisms, including fish and aquatic invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treated area. Do not apply directly to or near water. Drift and run-off from treated areas may be hazardous to fish in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash-water or rinsate. See Directions for Use for additional precautions and requirements. This pesticide is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product to allow it to drift to blooming crops if bees are visiting the treatment area.
FIFRA Physical Hazard	Do not mix or allow coming into contact with oxidizing agents. Hazardous chemical reaction may occur.

15.2. International regulations

CANADA

Pyrethrins (8003-34-7)

Listed on the Canadian DSL (Domestic Substances List)

Piperonyl butoxide (51-03-6)

Listed on the Canadian DSL (Domestic Substances List)

Permethrin (52645-53-1)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

Octanoic acid (124-07-2)

Listed on the Canadian DSL (Domestic Substances List)

Nonanoic acid (112-05-0)

Listed on the Canadian DSL (Domestic Substances List)

Decanoic acid (334-48-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

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National regulations

Pyrethrins (8003-34-7) Listed on INSQ (Mexican National Inventory of Chemical Substances)
Piperonyl butoxide (51-03-6) Listed on INSQ (Mexican National Inventory of Chemical Substances)
Permethrin (52645-53-1) Listed on INSQ (Mexican National Inventory of Chemical Substances)
Octanoic acid (124-07-2) Listed on INSQ (Mexican National Inventory of Chemical Substances)
Decanoic acid (334-48-5) Listed on INSQ (Mexican National Inventory of Chemical Substances)

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

Component	State or local regulations
Pyrethrins(8003-34-7)	U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - New Jersey - Right to Know Hazardous Substance List
Piperonyl butoxide(51-03-6)	U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - New Jersey - Right to Know Hazardous Substance List
Permethrin(52645-53-1)	U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

According to 29CFR 1910.1200 OSHA Hazard Communication Standard
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Indication of changes: Physical and chemical properties.
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Safety Data Sheet (SDS), USA

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