

Absorbine® UltraShield® Brand Residual Insecticide

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878
Issue date: 27OCT2022 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : Absorbine® UltraShield® Brand Residual Insecticide

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture : Insecticide

1.2.2. Uses advised against

Restrictions on use : None known

1.3. Details of the supplier of the safety data sheet

Manufacturer

W.F. Young, Inc.
302 Benton Drive
East Longmeadow, MA 01028
United States
T (413) 526-9999 F (413) 526-9869
SDS@wfyong.com
www.wfyong.com

1.4. Emergency telephone number

Emergency number : Denmark: 82 12 12 12
Germany: 030 30686 790
Norway: 22 59 13 00
Sweden: 112 or 08-33 12 31
Ireland: 01 809 2566
France: +33.145.425.959
Poland: 022 619 66 54 / 058 682 04 04 / 061 847 69 46/ 012 411 99 99

Company Hotline: +1 (413) 526-9999

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazardous to the aquatic environment – Acute Hazard, Category 1 H400
Hazardous to the aquatic environment – Chronic Hazard, Category 1 H410
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

May produce an allergic skin reaction. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS09

Signal word (CLP) : Warning

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Contains	: Contains permethrin, Chrysanthemum cinerariaefolium extract from open and mature flowers of Tanacetum cinerariifolium obtained with hydrocarbon solvents, 1,2-benzisothiazol-3(2H)-one, and Cymbopogon winterianus extracts.
Hazard statements (CLP)	: H410 - Very toxic to aquatic life with long lasting effects. EUH208 Contains permethrin, Chrysanthemum cinerariaefolium extract from open and mature flowers of Tanacetum cinerariifolium obtained with hydrocarbon solvents, 1,2-benzisothiazol-3(2H)-one, and Cymbopogon winterianus extracts. May produce an allergic reaction.
Precautionary statements (CLP)	: P273 - Avoid release to the environment. P391 - Collect spillage. P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Hazardous to bees. Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Aliphatic alcohol	-	5-15	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Alcohols, C11-14-iso-, C13-rich, ethoxylated	CAS -No.: 78330-21-9 EC-No.:16-609-5	<3	Eye Dam. 1, H318 ¹
Piperonyl butoxide	CAS-No.: 51-03-6 EC-No.: 200-076-7	<3	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)
Permethrin	CAS-No.: 52645-53-1 EC-No.: 258-067-9 EC Index-No.: 613-058-00-2	<1	Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)
Cymbopogon winterianus, extracts	CAS-No.: 91771-61-8 EC-No.: 294-954-7	0.5	Acute Tox. 4 (Oral), H302 Asp. Tox 1, H304 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, Aquatic Chronic 2, H411

¹ Not classified for eye irritation based on Primary Eye Irritation Study in Rabbits.

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Chrysanthemum cinerariaefolium extract from open and mature flowers of Tanacetum cinerariifolium obtained with hydrocarbon solvents	CAS-No.: 89997-63-7 EC-No.: 289-699-3	<0.3	Acute Tox. 4 (Oral), H302 (ATE=584 mg/kg bodyweight) Acute Tox. 4 (Dermal), H312 (ATE=1350 mg/kg bodyweight) Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=3.4 mg/l/4h) Aquatic Acute 1, H400 (M=100)
1,2-Benzisothiazol-3(2H)-one	CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6	<0.5	Acute Tox. 4 (Oral), H302 (ATE=490 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400
Oxybenzone	CAS-No.: 131-57-7 EC-No.: 205-031-5	<0.5	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)

Specific concentration limits:

Name	Product identifier	Specific concentration limits
1,2-Benzisothiazol-3(2H)-one	CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6	(0.05 ≤C ≤ 100) Skin Sens. 1, H317

Full text of H- and EUH-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. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
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, both acute and delayed

Symptoms/effects	: May cause sensitisation by skin contact. May cause drowsiness or dizziness. Ingestion may cause nausea, vomiting and diarrhea.
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4.3. Indication of any immediate medical attention and special treatment needed

Immediate medical attention is required for eye contact.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray or alcohol-resistant foam.
Unsuitable extinguishing media	: Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: This product is not classified as flammable or combustible. Prolonged exposure to fire may cause containers to rupture/explode.
Hazardous decomposition products in case of fire	: Thermal decomposition generates: Carbon oxides (CO, CO ₂). Fire will produce dense black smoke. Toxic fumes may be released.

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5.3. Advice for firefighters

- 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.
- 6.1.1. For non-emergency personnel**
- Emergency procedures : Avoid contact with skin and eyes. Avoid breathing mist, vapours. 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. Collect spillage.
- 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.

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 skin and eyes. Wear personal protective equipment. Avoid breathing mist, vapours. Ensure good ventilation of the work station.
- Hygiene measures : 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. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

7.3. Specific end use(s)

Insecticide.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Pyrethrins (8003-34-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Pyrethrum (purified of sensitising lactones)
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC

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Pyrethrins (8003-34-7)	
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	1 mg/m ³ (E)
Peak exposure limitation factor	1(I)
Remark	AGS - Ausschuss für Gefahrstoffe; EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden; Sh - Hautsensibilisierender Stoff) für Rohextrakt
Regulatory reference	TRGS900
Poland - Occupational Exposure Limits	
Local name	Pyretryny
NDS (OEL TWA)	1 mg/m ³
Regulatory reference	Dz. U. 2018 poz. 1286
United Kingdom - Occupational Exposure Limits	
Local name	Pyrethrum
WEL TWA (OEL TWA) [1]	1 mg/m ³ purified of sensitising lactones
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Aliphatic alcohol	
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	500 mg/m ³
AGW (OEL TWA) [2]	200 ppm
Peak exposure limitation factor	2(II)
Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
Germany - Biological limit values (TRGS 903)	
Biological limit value	25 mg/l Parameter: Aceton - Untersuchungsmaterial: B = Vollblut, U = Urin - Probenahmezeitpunkt: b) Expositionsende, bzw. Schichtende - Festlegung/Begründung: 11/2012 DFG 25 mg/l Parameter: Aceton - Untersuchungsmaterial: U = Urin - Probenahmezeitpunkt: b) Expositionsende, bzw. Schichtende - Festlegung/Begründung: 11/2012 DFG
Regulatory reference	TRGS 903
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	900 mg/m ³
NDSch (OEL STEL)	1200 mg/m ³
Remark	Skóra (Oznakowanie substancji notacją „skóra” oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).
Regulatory reference	Dz. U. 2018 poz. 1286
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	999 mg/m ³
WEL TWA (OEL TWA) [2]	400 ppm

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Aliphatic alcohol	
WEL STEL (OEL STEL)	1250 mg/m ³
WEL STEL (OEL STEL) [ppm]	500 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Wear safety goggles or other eye protection to prevent eye contact. Use eye protection according to EN 166.

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear suitable gloves tested to EN374

8.2.2.3. Respiratory protection

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.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Light yellow.
Odour	: Aromatic-like
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: 100 °C
Flammability	: Non flammable.
Explosive limits	: Not available

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Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 35.1 ° C (does not maintain combustion)
Auto-ignition temperature	: 490 ° C
Decomposition temperature	: Not available
pH	: 5.75 at 19.7 ° C (1% concentration)
Viscosity, kinematic	: 3.106 cS at 20 ° C; 2.032 cS at 0 ° C
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not applicable
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: 0.986 g/cm ³ at 20 °
Relative vapour density at 20 °C	: > 1
Particle characteristics	: Not applicable

9.2. Other information

Surface Tension: 22.5 mN/m at 25.4 0 ° C

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1) : < 1

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.

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

Strong oxidizers.

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Based on available data, the classification criteria are not met
Acute toxicity (dermal)	: Based on available data, the classification criteria are not met
Acute toxicity (inhalation)	: Based on available data, the classification criteria are not met

1,2-Benzisothiazol-3(2H)-one (2634-33-5)

LD50 oral rat	490 mg/kg
LD50 dermal rat	> 2000

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Permethrin (52645-53-1)	
LD50 oral rat	600 mg/kg
LD50 dermal rat	2500 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
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
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
Aliphatic alcohol	
LD50 oral rat	5840 mg/kg
LD50 dermal rabbit	16.4 ml/kg
LC50 Inhalation - Rat [ppm]	1666.66 ppm/1h
Oxybenzone (131-57-7)	
LD50 oral rat	> 12800 mg/kg
LD50 dermal rabbit	> 16000 mg/kg
Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Carcinogenicity	Based on available data, the classification criteria are not met
Permethrin (52645-53-1)	
IARC group	3 - Not classifiable
Piperonyl butoxide (51-03-6)	
IARC group	3 - Not classifiable
Aliphatic alcohol	
IARC group	3 - Not classifiable
Reproductive toxicity	: Based on available data, the classification criteria are not met
STOT-single exposure	: Based on available data, the classification criteria are not met
Aliphatic alcohol	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	Based on available data, the classification criteria are not met
Piperonyl butoxide (51-03-6)	
LOAEL (dermal, rat/rabbit, 90 days)	≥ 1000 mg/kg bodyweight Animal: rabbit, Guideline: EPA OPP 82-2 (Repeated Dose Dermal Toxicity -21/28 Days)

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Piperonyl butoxide (51-03-6)	
NOAEL (dermal, rat/rabbit, 90 days)	≥ 1000 mg/kg bodyweight Animal: rabbit, Guideline: EPA OPP 82-2 (Repeated Dose Dermal Toxicity -21/28 Days)
Nonionic detergent blend	
STOT-single exposure	May cause drowsiness or dizziness.
Aspiration hazard	Based on available data, the classification criteria are not met
Aliphatic alcohol	
Viscosity, kinematic	2.58 mm ² /s

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : None known

11.2.2. Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic) : Very toxic to aquatic life with long lasting effects.

1,2-Benzisothiazol-3(2H)-one (2634-33-5)	
LC50 - Fish [1]	2.15 mg/l
EC50 - Crustacea [1]	2.9 mg/l EC50 48h - Daphnia magna [mg/l]
Permethrin (52645-53-1)	
LC50 - Fish [1]	0.00079 mg/l Lepomis macrochirus (Bluegill)
Piperonyl butoxide (51-03-6)	
LC50 - Fish [1]	5.37 mg/l Lepomis macrochirus (Bluegill)
LC50 - Fish [2]	3.94 mg/l Cyprinodon variegatus (sheepshead minnow)
EC50 - Crustacea [1]	510 µg/l Daphnia magna (Water flea)
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)
Pyrethrins (8003-34-7)	
LC50 - Fish [1]	0.0032 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 - Crustacea [1]	0.025 mg/l Daphnia Pulex
Aliphatic alcohol	
LC50 - Fish [1]	10000 mg/l Pimephales promelas (Fathead minnow)
LC50 - Fish [2]	9640 mg/l Pimephales promelas (Fathead minnow)

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Aliphatic alcohol	
EC50 - Crustacea [1]	> 10000 mg/l
NOEC chronic crustacea	3.37 mg/l
Oxybenzone (131-57-7)	
LC50 - Fish [1]	3.8 mg/l <i>Oryzias latipes</i> (Ricefish)
EC50 - Crustacea [1]	1.87 mg/l <i>Daphnia magna</i> (Water flea)
EC50 72h - Algae [1]	0.41 mg/l <i>Pseudokirchneriella subcapitata</i>
ErC50 algae	0.67 mg/l <i>Pseudokirchneriella subcapitata</i>

12.2. Persistence and degradability

Aliphatic alcohol	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

1,2-Benzisothiazol-3(2H)-one (2634-33-5)	
BCF - Fish [1]	6.62
Partition coefficient n-octanol/water (Log Kow)	0.7
Aliphatic alcohol	
BCF - Fish [1]	3
Partition coefficient n-octanol/water (Log Kow)	0.05

12.4. Mobility in soil

Aliphatic alcohol	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.5

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- | | |
|------------------------------|--|
| Regional legislation (waste) | : Do not allow large quantities, as are, to spread into the environment. Do not discharge into drains or rivers. |
| Waste treatment methods | : Refer to product label for additional information on use and handling. Dispose in a safe manner in accordance with local/national regulations. |





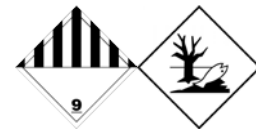
SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

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ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pyrethrins; Permethrin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pyrethrins; Permethrin)	Environmentally hazardous substance, liquid, n.o.s. (Pyrethrins; Permethrin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pyrethrins; Permethrin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pyrethrins; Permethrin)
Transport document description				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pyrethrins; Permethrin), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pyrethrins; Permethrin), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Pyrethrins; Permethrin), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pyrethrins; Permethrin), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pyrethrins; Permethrin), 9, III
14.3. Transport hazard class(es)				
9	9	9	9	9
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available				

14.6. Special precautions for user

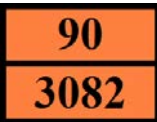
Overland transport

Classification code (ADR)	: M6
Special provisions (ADR)	: 274, 335, 375, 601
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Special packing provisions (ADR)	: PP1
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13
Hazard identification number (Kemler No.)	: 90

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Orange plates	:	
Tunnel restriction code (ADR)	:	-
EAC code	:	•3Z

Transport by sea

Special provisions (IMDG)	:	274, 335, 969
Limited quantities (IMDG)	:	5 L
Excepted quantities (IMDG)	:	E1
Packing instructions (IMDG)	:	LP01, P001
Special packing provisions (IMDG)	:	PP1
IBC packing instructions (IMDG)	:	IBC03
Tank instructions (IMDG)	:	T4
Tank special provisions (IMDG)	:	TP1, TP29
EmS-No. (Fire)	:	F-A
EmS-No. (Spillage)	:	S-F
Stowage category (IMDG)	:	A

Air transport

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 provisions (IATA)	:	A97, A158, A197, A215
ERG code (IATA)	:	9L

Inland waterway transport

Classification code (ADN)	:	M6
Special provisions (ADN)	:	274, 335, 375, 601
Limited quantities (ADN)	:	5 L
Excepted quantities (ADN)	:	E1
Carriage permitted (ADN)	:	T
Equipment required (ADN)	:	PP
Number of blue cones/lights (ADN)	:	0

Rail transport

Classification code (RID)	:	M6
Special provisions (RID)	:	274, 335, 375, 601
Limited quantities (RID)	:	5L
Excepted quantities (RID)	:	E1
Packing instructions (RID)	:	P001, IBC03, LP01, R001
Special packing provisions (RID)	:	PP1
Mixed packing provisions (RID)	:	MP19
Portable tank and bulk container instructions (RID)	:	T4
Portable tank and bulk container special provisions (RID)	:	TP1, TP29
Tank codes for RID tanks (RID)	:	LGBV
Transport category (RID)	:	3
Special provisions for carriage – Packages (RID)	:	W12
Special provisions for carriage - Loading, unloading and handling (RID)	:	CW13, CW31
Colis express (express parcels) (RID)	:	CE8
Hazard identification number (RID)	:	90

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no REACH substances with Annex XVII restrictions

REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

PIC Regulation (Prior Informed Consent)

Substances subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals: Permethrin (52645-53-1)

POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

15.1.2. National regulations

Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level

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Abbreviations and acronyms:	
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
EUH208	Contains 1,2-Benzisothiazol-3(2H)-one, Permethrin. May produce an allergic reaction.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2

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Full text of H- and EUH-statements:	
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

Safety Data Sheet (SDS), EU

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.