



PERMOST UNI FLY SPRAY

Version number: 7.4
Issued: 2025-02-10
Replaces SDS: 2020-03-16

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

1.1. Product identifier

Trade name

PERMOST UNI FLY SPRAY

Name of the chemical

Permethrin 2.5 g/l + Tetramethrin 1.0 g/l + PBO 3.0 g/l

Article No.

PBPTTE0007XXA

UFI code

3XR2-Y0KV-F00A-65PM

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

Relevant identified uses

Product-type 18: Insecticides, acaricides and products to control other arthropods

1.3. Details of the supplier of the safety data sheet

Manufacturer

Hockley International Ltd

Address

Hockley House
3 Longstone Road
Ashbrook Office Park
Manchester
M22 5LB
United Kingdom

Telephone

0161 209 7400

Email

sds@hockley.co.uk

1.4. Emergency telephone number

Poison center/Additional emergency number

0344 892 0111 - National Poisons Information Service (Belfast Centre)
0344 892 0111 - National Poisons Information Service (Birmingham Centre)

Other

Phone, general enquiries

NATIONAL POISON INFORMATION SERVICE (DUBLIN CENTRE) 01 809 2566 or 01 837 9964
(24 hours)



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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Hazardous to the aquatic environment — Acute hazard category 1

Hazardous to the aquatic environment — Chronic hazard category 1

Aspiration hazard, hazard category 1

Hazard statements

H304, H400, H410

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H304 May be fatal if swallowed and enters airways.

H410 Very toxic to aquatic life with long lasting effects.

Supplemental hazard statements

EUH208 Contains Permethrin. May produce an allergic reaction.

Precautionary statements

P273 Avoid release to the environment.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331 Do NOT induce vomiting.

P391 Collect spillage.

P405 Store locked up.

P501 Dispose of contents/container to National regulations.

More information

Contains: Odourless Kerosine

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.



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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrases M factor acute M factor chronic	Specific concentration limits	Note
ODOURLESS KEROSENE	64742-47-8 926-141-6 - -	60 - 100%	Asp. Tox. 1	H304 - -	-	-
PERMETHRIN	52645-53-1 258-067-9 - -	>0 - <1%	Acute Tox. 4 - oral, Skin Sens. 1, Acute Tox. 4 - inhalation, Aquatic Chronic 1, Aquatic Acute 1	H302, H317, H332, H410 M-acut=1000 M-chro=1000	-	ATE Oral = 554 mg/kg ATE Inhal (dust & mists) = > 4.638 mg/l
TETRAMETHRIN	7696-12-0 231-711-6 - -	>0 - <1%	Acute Tox. 4 - oral, Carc. 2, STOT SE 2, Aquatic Acute 1, Aquatic Chronic 1	H302, H351, H371, H400, H410 M-acut=100 M-chro=100	-	ATE oral = 500 mg/kg
PIPERONYL BUTOXIDE	51-03-6 200-076-7 01-2119537431-46-0000 -	>0 - 1%	Eye Irrit. 2, Aquatic Acute 1, Aquatic Chronic 1, STOT SE 3	H319, H335, H400, H410, EUH066 M-acut=1 M-chro=1	-	-
BUTYLATED HYDROXY-TOLUENE BHT	128-37-0 204-881-4 01-2119480433-40-XXXX -	>0 - <1%	Aquatic Acute 1, Aquatic Chronic 1	H400, H410 M-acut=1 M-chro=1	-	-

Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Remove person to fresh air and keep comfortable for breathing. If unconscious but breathing normally, place in recovery position and seek medical advice.



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Skin contact

Take off contaminated clothing and wash it before reuse. Gently wash with plenty of soap and water.

Eye contact

Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

Ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Get medical help.

Information for doctors

Treat symptomatically.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation

Cough Breathing difficulties

Skin contact

erythema (redness) Burning sensation. Repeated exposure may cause skin dryness or cracking.

Eye contact

erythema (redness) Pain

Ingestion

Nausea , Vomiting , If ingested, material may be aspirated into the lungs and cause chemical pneumonitis.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Observe risk of aspiration if vomiting occurs.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog
Use fire extinguishing media suitable for the surrounding fire

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire



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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide

Carbon dioxide (CO₂)

Hydrogen chloride (HCl)

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Use water spray jet to protect personnel and to cool endangered containers.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Other

Measures in case of fire

In case of fire: Evacuate area.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment (refer to section 8). Provide adequate ventilation.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Stop leak if safe to do so. Absorb spillage with sand or other inert absorbent. Dike far ahead of larger spills for later

disposal. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. This material and its container must be disposed of as hazardous waste.

6.4. Reference to other sections

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Use biocides safely. Always read the label and product information before use. Wear personal protection equipment (refer to section 8). Handle and open container with care. Discharge into the environment must be avoided.



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General hygiene

Do not eat, drink or smoke when using this product. Take off immediately all contaminated clothing and wash it before reuse. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Keep only in the original container in a cool, well-ventilated place. Keep container tightly closed. Store away from incompatible materials listed in section 10 of this safety data sheet

7.3. Specific end use(s)

Product-type 18: Insecticides, acaricides and products to control other arthropods

Other

Keep locked up and out of reach of children.



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
PIPERONYL BUTOXIDE (51-03-6/200-076-7)	DNEL	Chronic (long term) Oral	0.221 mg/kg bw/day	Consumers	Systemic
PIPERONYL BUTOXIDE (51-03-6/200-076-7)	DNEL	Chronic (long term) Inhalation	0.388 mg/m ³	Consumers	Systemic
PIPERONYL BUTOXIDE (51-03-6/200-076-7)	DNEL	Chronic (long term) Dermal	0.221 mg/kg bw/day	Consumers	Systemic
PIPERONYL BUTOXIDE (51-03-6/200-076-7)	DNEL	Chronic (long term) Inhalation	1.6 mg/m ³	Workers	Systemic
PIPERONYL BUTOXIDE (51-03-6/200-076-7)	DNEL	Chronic (long term) Dermal	0.443 mg/kg bw/day	Workers	Systemic
PIPERONYL BUTOXIDE (51-03-6/200-076-7)	DNEL	Chronic (long term) Oral	0.221 mg/kg bw/day	Consumers	Systemic
PIPERONYL BUTOXIDE (51-03-6/200-076-7)	DNEL	Chronic (long term) Inhalation	0.388 mg/m ³	Consumers	Systemic
PIPERONYL BUTOXIDE (51-03-6/200-076-7)	DNEL	Chronic (long term) Dermal	0.221 mg/kg bw/day	Consumers	Systemic
PIPERONYL BUTOXIDE (51-03-6/200-076-7)	DNEL	Chronic (long term) Inhalation	1.6 mg/m ³	Workers	Systemic
PIPERONYL BUTOXIDE (51-03-6/200-076-7)	DNEL	Chronic (long term) Dermal	0.443 mg/kg bw/day	Workers	Systemic
BUTYLATED HYDROXYTOLUENE BHT (128-37-0/204-881-4)	DNEL	Acute (short term) Inhalation	2 mg/m ³	Workers	Systemic
BUTYLATED HYDROXYTOLUENE BHT (128-37-0/204-881-4)	DNEL	Chronic (long term) Oral	0.3 mg/kg bw/day	Consumers	Systemic

PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
PERMETHRIN (52645-53-1/258-067-9)	PNEC	Freshwater	0.00047 µg/l
PERMETHRIN (52645-53-1/258-067-9)	PNEC	Sewage Treatment Plant	0.00495 mg/l
PERMETHRIN (52645-53-1/258-067-9)	PNEC	Sediment (freshwater)	0.001 mg/kg dwt



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Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
PIPERONYL BUTOXIDE (51-03-6/200-076-7)	PNEC	Freshwater	0.00148 mg/l
PIPERONYL BUTOXIDE (51-03-6/200-076-7)	PNEC	Marine water	0.148 µg/l
PIPERONYL BUTOXIDE (51-03-6/200-076-7)	PNEC	Sediment (freshwater)	0.043 mg/kg
PIPERONYL BUTOXIDE (51-03-6/200-076-7)	PNEC	Sediment (marine water)	0.0043 mg/kg
PIPERONYL BUTOXIDE (51-03-6/200-076-7)	PNEC	Sewage Treatment Plant	2.89 mg/l
PIPERONYL BUTOXIDE (51-03-6/200-076-7)	PNEC	Soil	0.111 mg/kg dwt
BUTYLATED HYDROXYTOLUENE BHT (128-37-0/204-881-4)	PNEC	Freshwater	0.0041 mg/l
BUTYLATED HYDROXYTOLUENE BHT (128-37-0/204-881-4)	PNEC	Marine water	0.0041 mg/l
BUTYLATED HYDROXYTOLUENE BHT (128-37-0/204-881-4)	PNEC	Sediment (freshwater)	0.731 mg/kg
BUTYLATED HYDROXYTOLUENE BHT (128-37-0/204-881-4)	PNEC	Sediment (marine water)	0.731 mg/kg
BUTYLATED HYDROXYTOLUENE BHT (128-37-0/204-881-4)	PNEC	Soil	0.35 mg/kg

8.2. Exposure controls

Eye / face protection

Use eye protection according to EN 166. goggles

Hand protection

Wear chemical resistant gloves tested to EN 374 Nitrile gloves or gauntlets are recommended Break-through time: > 480 minutes

Other skin protection

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Respiratory protection

In case of inadequate ventilation wear respiratory protection. It is recommended to use respiratory equipment with a combination filter, type A2/P2,(EN140/143) or higher

Environmental exposure controls

Discharge into the environment must be avoided.



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Other

Provide adequate ventilation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

colourless

Odour

practically odourless

Odour threshold

This information is not available.

Melting point / freezing point

not applicable

Boiling point or initial boiling point and boiling range

No data available

Flammability

No data available

Lower and upper explosion limit

No data available

Flash point

> 61 °C

Auto-ignition temperature

No data available

Decomposition temperature

No data available

pH

No data available

Kinematic viscosity

No data available

Solubility

Insoluble in water



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Water solubility

Insoluble in water

Partition coefficient n-octanol/water

No data available

Vapour pressure

No data available

Density and/or relative density

0.795 - 0.825

Method

Hydrometer

Relative vapour density

No data available

Evaporation Rate

No data available

Explosive properties

No data available

Oxidising properties

No data available

VOC %

No data available

Particle characteristics

No data available

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Avoid high temperatures or direct sunlight.



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10.5. Incompatible materials

Strong acid Strong alkali Oxidising substances

10.6. Hazardous decomposition products

Does not decompose when stored and used as recommended

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Classification according to Regulation (EC) No 1272/2008, as retained and amended in UK law [GB CLP]

Acute toxicity

Calculation method Not Classified

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline	Remarks
TETRA- METHRIN 7696-12-0 / 231-711-6	ATE (oral):	500 mg/kg bw	-	-	Rat	-	-
TETRA- METHRIN 7696-12-0 / 231-711-6	Acute inhala- tion toxicity (dust/mist) LD50:	> 2000 mg/kg bw	-	-	Rat	-	-
TETRA- METHRIN 7696-12-0 / 231-711-6	Acute dermal toxicity	> 2000 mg/kg bw	-	-	-	-	-
PIPERONYL BUTOXIDE 51-03-6 / 200- 076-7	Acute oral tox- icity LD50:	4570 mg/kg bw	-	-	Rat	OECD 401	-
PIPERONYL BUTOXIDE 51-03-6 / 200- 076-7	Acute dermal toxicity LD50:	> 2000 mg/kg bw	-	-	Rabbit	OECD 402	-
PIPERONYL BUTOXIDE 51-03-6 / 200- 076-7	Acute inhala- tion toxicity (dust/mist) LC50:	> 5.9 mg/L/4h	-	-	Rat	OECD 403	-
PERMETHRIN 52645-53-1 /	LD50:	554 mg/kg bw	oral	-	Rat	OECD 401	-



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Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline	Remarks
258-067-9							
PERMETHRIN 52645-53-1 / 258-067-9	LD50:	> 2000 mg/kg bw	Dermal	14 day(s)	Rabbit	OECD 402	-
PERMETHRIN 52645-53-1 / 258-067-9	LC50:	> 4.639 mg/L	Inhalation	4 hour(s)	Rat	OECD 403	Maximum attainable aer- osol concen- tration

Skin corrosion/irritation

Calculation method Not Classified

Product / Sub- stance name CAS / EC no.	Result	Duration of expos- ure	Species	Method / Guideline	Other
PERMETHRIN 52645-53-1 / 258- 067-9	non-irritant.	4 hour(s)	Rabbit	OECD 404	-
TETRAMETHRIN 7696-12-0 / 231- 711-6	-	-	-	-	Based on available data, the classifica- tion criteria are not met.
PIPERONYL BUT- OXIDE 51-03-6 / 200-076-7	-	-	-	-	Based on available data, the classifica- tion criteria are not met.

Serious eye damage/irritation

Calculation method Not Classified

Product / Sub- stance name CAS / EC no.	Result	Duration of expos- ure	Species	Method / Guideline	Other
PERMETHRIN 52645-53-1 / 258- 067-9	non-irritant.	4 hour(s)	Rabbit	OECD 405	-
TETRAMETHRIN 7696-12-0 / 231- 711-6	-	-	-	-	Based on available data, the classifica- tion criteria are not met.



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Product / Substance name CAS / EC no.	Result	Duration of exposure	Species	Method / Guideline	Other
PIPERONYL BUT-OXIDE 51-03-6 / 200-076-7	-	-	-	-	Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Calculation method Not Classified Contains: Permethrin > 0.1 % May cause an allergic skin reaction.

Product / Substance name CAS / EC no.	Result	Species	Method / Guideline	Other
PERMETHRIN 52645-53-1 / 258-067-9	Skin sensitisation not sensitising.	Guinea pig	OECD 406	Harmonised (legal) classification. May cause an allergic skin reaction.
TETRAMETHRIN 7696-12-0 / 231-711-6	not sensitising.	-	-	-
PIPERONYL BUTOX-IDE 51-03-6 / 200-076-7	-	-	-	Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Calculation method Not Classified

Product / Substance name CAS / EC no.	Result	Exposure route	Value / Dose	Species	Method / Guideline	Other
PERMETHRIN 52645-53-1 / 258-067-9	negative (with metabolic activation) negative (without metabolic activation)	In vitro mutagenicity/genotoxicity	-	Hamster	OECD 473	-
PERMETHRIN 52645-53-1 / 258-067-9	negative	-	2 Dose: 24 hour(s) Application interval	Mouse	OECD 475	-
TETRA-METHRIN 7696-12-0 / 231-711-6	-	-	-	-	-	Based on available data, the classification criteria are not met.
PIPERONYL BUTOXIDE 51-03-6 / 200-076-7	-	-	-	-	-	Based on available data, the classification criteria are not met.



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Carcinogenicity

Calculation method. Not Classified

Product / Substance name CAS / EC no.	Exposure route	Value / Dose	Species	Other
PERMETHRIN 52645-53-1 / 258-067-9	oral	No Observed Adverse Effect Level 75 mg/kg bw/day	Rat	No indication of human carcinogenicity.
TETRAMETHRIN 7696-12-0 / 231-711-6	-	-	-	Presumed to have carcinogenic potential for humans; largely based on animal evidence.
PIPERONYL BUTOXIDE 51-03-6 / 200-076-7	-	-	-	Based on available data, the classification criteria are not met.

Repeated dose toxicity

Calculation method. Not Classified

Reproductive toxicity

Based on available data, the classification criteria are not met.

Product / Substance name CAS / EC no.	Exposure route	Value / Dose	Species	Result	Other
PERMETHRIN 52645-53-1 / 258-067-9	oral	No Observed Adverse Effect Level 500 mg/kg bw/day	Rabbit	negative	OECD 414 Developmental toxicity:
PERMETHRIN 52645-53-1 / 258-067-9	oral	250 mg/kg bw/day No Observed Adverse Effect Level	Rabbit	negative	OECD 416 fertility Toxicity
TETRAMETHRIN 7696-12-0 / 231-711-6	-	-	-	-	Based on available data, the classification criteria are not met.
PIPERONYL BUTOXIDE 51-03-6 / 200-076-7	-	-	-	-	Based on available data, the classification criteria are not met.

STOT-single exposure

Calculation method Not Classified



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Product / Substance name CAS / EC no.	Exposure route	Target organs	Other
PERMETHRIN 52645-53-1 / 258-067-9	-	-	No data available
TETRAMETHRIN 7696-12-0 / 231-711-6	inhalation	nervous system	-
PIPERONYL BUTOXIDE 51-03-6 / 200-076-7	-	-	Irritation to respiratory tract

STOT-repeated exposure

Calculation method Not Classified

Product / Substance name CAS / EC no.	Exposure route	Value / Dose	Species	Result	Exposure time / Exposure frequency	Method / Guideline	Other
PERMETHRIN 52645-53-1 / 258-067-9	oral Feed	8.6 mg/kg bw/day	Rat	No Observed Adverse Effect Level	90 day(s)	OECD 408	-
PERMETHRIN 52645-53-1 / 258-067-9	Dermal	1000 mg/kg bw/day	Rat	No Observed Adverse Effect Level	13 week(s) 6 hours / day 5 days per week	OECD 411	-
PERMETHRIN 52645-53-1 / 258-067-9	inhalation Aerosol	0.2201 mg/L Air	Rat	No Observed Adverse Effect Level	13 week(s) 6 hours / day 5 days per week	OECD 413	-
PIPERONYL BUTOXIDE 51-03-6 / 200-076-7	-	-	-	-	-	-	Based on available data, the classification criteria are not met.

Aspiration hazard

Calculation method Aspiration hazard If ingested, material may be aspirated into the lungs and cause chemical pneumonitis.

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.



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SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Very toxic to aquatic life with long lasting effects.

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Species	Method / Guideline
PERMETHRIN 52645-53-1 / 258-067-9	LD50:	0.163 µg/L	Apis mellifera (bee)	No data available

Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
PERMETHRIN 52645-53-1 / 258-067-9	LC50:	8.9 µg/L	96 hour(s)	Poecilia reticulata (Guppy)	OECD 203 semi-static freshwater
PERMETHRIN 52645-53-1 / 258-067-9	LC50:	0.145 mg/L	96 hour(s)	Cyprinus carpio (Common Carp)	OECD 203
TETRAMETHRIN 7696-12-0 / 231-711-6	LC50:	0.033 mg/L	96 hour(s)	Danio rerio (zebrafish)	-
PIPERONYL BUT-OXIDE 51-03-6 / 200-076-7	Acute (short-term) fish toxicity LC50:	3.94 mg/L	96 hour(s)	Cyprinodon variegatus -Sheepshead Minnow	OECD 203

Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
PERMETHRIN 52645-53-1 / 258-067-9	EC50	> 1.13 mg/L	72 hour(s)	Pseudokirchneriella subcapitata	OECD 201
TETRAMETHRIN 7696-12-0 / 231-711-6	IC50:	1.36 mg/L	72 hour(s)	Scenedesmus subspicatus	-
PIPERONYL BUT-OXIDE 51-03-6 / 200-076-7	EC50	3.89 mg/L	72 hour(s)	Selenastrum capricornutum	OECD 201



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Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
PERMETHRIN 52645-53-1 / 258-067-9	EC50	0.00127 mg/L	48 hour(s)	Daphnia magna (Big water flea)	OECD 202
TETRAMETHRIN 7696-12-0 / 231-711-6	EC50	0.47 mg/L	48 hour(s)	Daphnia magna (Big water flea)	-
PIPERONYL BUT-OXIDE 51-03-6 / 200-076-7	EC50	0.51 mg/L	48 hour(s)	Daphnia magna (Big water flea)	OECD 202

Micro-/macro organism toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
PERMETHRIN 52645-53-1 / 258-067-9	EC50	> 1000 mg/l	3 hour(s)	Activated sludge	OECD 209
PERMETHRIN 52645-53-1 / 258-067-9	NOEC:	0.00495 mg/L	3 hour(s)	Activated sludge	OECD 209

Chronical toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
PERMETHRIN 52645-53-1 / 258-067-9	NOEC:	> 0.0131 mg/L	72 hour(s)	Pseudokirchneriella subcapitata	OECD 201
PERMETHRIN 52645-53-1 / 258-067-9	EC10:	0.0023 mg/L	72 hour(s)	Pseudokirchneriella subcapitata	This information is not available.
PERMETHRIN 52645-53-1 / 258-067-9	NOEC:	0.00041 mg/L	35 day(s)	Danio rerio (zebrafish)	OECD 210
PERMETHRIN 52645-53-1 / 258-067-9	NOEC:	0.0047 mg/L	21 day(s)	Daphnia magna (Big water flea)	OECD 211



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Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of expos- ure	Species	Method / Guideline
PERMETHRIN 52645-53-1 / 258- 067-9	EC50	126 mg/kg soil dw	14 day(s)	Lampito Mauriti	OECD 207
PIPERONYL BUT- OXIDE 51-03-6 / 200-076-7	Chronic (long-term) fish toxicity NOEC	0.18 mg/L	-	Pimephales pro- melas (fathead min- now)	EPA OPP 72-4
PIPERONYL BUT- OXIDE 51-03-6 / 200-076-7	Chronic (long-term) toxicity to aquatic invertebrate NOEC	0.03 mg/L	21 day(s)	Daphnia magna (Big water flea)	-
PIPERONYL BUT- OXIDE 51-03-6 / 200-076-7	Chronic (long-term) toxicity to aquatic algae and cyanobacteria NOEC	0.824 mg/L	-	Selenastrum capri- cornutum	OECD 201

12.2. Persistence and degradability

Some of the components are poorly biodegradable. The solvent is biodegradable.

Product / Sub- stance name CAS / EC no.	Type of test	Duration	Result	Method / Guideline	Remark
PERMETHRIN 52645-53-1 / 258- 067-9	Biodegradation Water CO2 Evolu- tion Test	28 day(s)	5 %	OECD 301B	-
PERMETHRIN 52645-53-1 / 258- 067-9	Half-life time: Water	-	> 1 year pH < 7 , > 1 year pH = 7 , 35 day(s) - 42 day(s) pH >7	-	Not readily biode- gradable
PERMETHRIN 52645-53-1 / 258- 067-9	Half-life time in soil	-	11 - 21.2 day(s)	-	-
TETRAMETHRIN 7696-12-0 / 231- 711-6	-	-	-	-	Moderately/partially biodegradable.

12.3. Bioaccumulative potential

Product / Sub- stance name CAS / EC no.	LogKow / Log- Pow	Bioconcentra- tion factor (BCF)	Result	Species	Method / Guideline	Remark
PERMETHRIN 52645-53-1 /	4.67 calculated	-	290 - 620	Cyprinodon variegatus -	-	literature value



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Product / Sub- stance name CAS / EC no.	LogKow / Log- Pow	Bioconcentra- tion factor (BCF)	Result	Species	Method / Guideline	Remark
258-067-9				Sheepshead Minnow		
TETRA- METHRIN 7696-12-0 / 231- 711-6	4.58	634	-	-	-	-
PIPERONYL BUTOXIDE 51-03-6 / 200- 076-7	4.8 OECD 117	380	-	Lepomis mac- rochirus (Blue- gill)	OECD 305	-

12.4. Mobility in soil

Mobility

Product / Substance name CAS / EC no.	KOC	Mobility
PERMETHRIN 52645-53-1 / 258-067-9	-	low Mobility in soil
TETRAMETHRIN 7696-12-0 / 231-711-6	-	Not considered mobile.
TETRAMETHRIN 7696-12-0 / 231-711-6	2754	-
PIPERONYL BUTOXIDE 51-03-6 / 200-076-7	-	Low to moderate potential of mobility

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

Product / Substance name CAS / EC no.	PBT / vPvB
PERMETHRIN 52645-53-1 / 258-067-9	The substances in the mixture do not meet the PBT/vPvB cri- teria according to REACH, annex XIII.
TETRAMETHRIN 7696-12-0 / 231-711-6	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
PIPERONYL BUTOXIDE 51-03-6 / 200-076-7	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.



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12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste. Contain and dispose of waste according to local regulations.

Packaging

Clean fibreboard boxes/cartons should be recycled

SECTION 14: Transport information

14.1. UN number

3082

14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (permethrin, tetramethrin)

IMDG proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (permethrin, tetramethrin)

IATA proper shipping name

Environmentally hazardous substance, liquid, n.o.s. (permethrin, tetramethrin)

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14.3. Transport hazard class(es)

Label

ADR/RID/ADN



9

Environmental hazard



IMDG



9

Environmental hazard



IATA



9

Environmental hazard



ADR / RID Class

9

ADR / RID Classification code

M6

ADR / RID hazard identification number

90

IMDG Class

9

IATA Class

9

ADN Class

9

ADN Class Code

M6

14.4. Packing group

ADR / RID / ADN: III

IMDG: III

IATA: III



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14.5. Environmental hazards

Environmental hazards

ENVIRONMENTALLY HAZARDOUS Marine pollutant

IMDG Marine Pollutant

Yes.

14.6. Special precautions for user

Special precautions for user

Tunnel restriction code: -

Transport category: 3

IMDG EmS

F-A, S-F

14.7. Maritime transport in bulk according to IMO instruments

IBC Instruction: IBC03

Other

Environmentally Hazardous Substance Mark NOT required for single packagings and combination packagings containing inner packagings $\leq 5\text{L}$ for liquids, or $\leq 5\text{kg}$ for solids. (ADR special provision 375, IMDG code 2.10.2.7, IATA special provision A197).
Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provisions of the Code relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants also meeting the criteria for inclusion in another hazard class all provisions of this Code relevant to any additional hazards continue to apply.

SECTION 15: Regulatory information

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

National regulations

Labelling according to Regulation (EC) No 1272/2008, as retained and amended in UK law [GB CLP]
Classification according to Regulation (EC) No 1272/2008, as retained and amended in UK law [GB CLP]
Information on hazard classes as defined in Regulation (EC) No. 1272/2008, as retained and amended for UK law [GB CLP]

Other regulations, limitations and legal regulations

Regulation (EU) 649/2012 (PIC) Permethrin

15.2. Chemical safety assessment

not applicable



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SECTION 16: Other information

References to key literature and data sources

Supplier safety data sheet EU BPR Active Substance Evaluation report Rapporteur Member State assessment reports submitted for the EU peer review of active substances used in plant protection products, Draft Assessment Report - <http://dar.efsa.europa.eu/dar-web/provision>.

Evaluation methods for classification

Calculation method.

Phrase meaning

Aquatic Acute 1 - Hazardous to the aquatic environment — Acute hazard category 1
Aquatic Chronic 1 - Hazardous to the aquatic environment — Chronic hazard category 1
Asp. Tox. 1 - Aspiration hazard, hazard category 1
Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4
Skin Sens. 1 - Skin sensitisation, hazard category 1
Acute Tox. 4 - inhalation - Acute toxicity, inhalation, hazard category 4
Carc. 2 - Carcinogenicity, hazard category 2
STOT SE 2 - Specific Target Organ Toxicity — Single exposure, hazard category 2
Eye Irrit. 2 - Eye irritation, hazard category 2
STOT SE 3 - Specific Target Organ Toxicity — Single exposure, hazard category 3
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H371 May cause damage to organs.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.
EUH208 Contains Permethrin. May produce an allergic reaction.