

Safety Data Sheet

DURACID SPRAY

Safety Data Sheet dated 16/11/2023 version 10

In accordance with Regulation (UE) 2020/878



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

1.1. Product identifier

Mixture identification:

Trade name: DURACID SPRAY

UFI: 5990-M03F-T00E-3CY0

Authorization of Ministry of Health n° : Italian Authorization n° 14573

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

Recommended use: Insecticide-Biocide

Uses advised against: All uses not listed in the Recommended uses

1.3. Details of the supplier of the safety data sheet

Company: VEBI ISTITUTO BIOCHIMICO SRL

Via Desman, 43 - 35010 Borgoricco (PD)

Tel. +39 049 9337111 - www.vebi.it

Responsable: regulatory@vebi.it

1.4. Emergency telephone number

United Kingdom Emergency number: 111

Ireland National Poisons Information Centre: 353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week). Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

VEBI ISTITUTO BIOCHIMICO customer service: Tel. +39 49 9337111 8:00-12:00- 13:00- 17:00

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Aerosols 1 Extremely flammable aerosol. Pressurized container: may burst if heated.

Aquatic Acute 1 Very toxic to aquatic life.

Aquatic Chronic 1 Very toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Hazard pictograms and Signal Word



Danger

Hazard statements

H222, H229 Extremely flammable aerosol. Pressurized container: may burst if heated.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe spray.

P273 Avoid release to the environment.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501 Dispose of contents and container in accordance with national regulation.

Special Provisions:

EUH066 Repeated exposure may cause skin dryness or cracking.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%.

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: DURACID SPRAY

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
≥ 7 - < 10 %	propane	CAS:74-98-6 EC:200-827-9 Index:601-003-00-5	2.2/1 Flam. Gas 1, H220	01-2119486944-21-xxxx
≥ 5 - < 7 %	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	CAS:64742-48-9 EC:919-857-5	2.6/3 Flam. Liq. 3, H226; 3.8/3 STOT SE 3, H336; 3.10/1 Asp. Tox. 1, H304, EUH066, DECLP(*)	01-2119463258-33-XXXX
≥ 1 - < 2,5 %	Piperonyl butoxide (ISO); 2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether	CAS:51-03-6 EC:200-076-7 Index:604-096-00-0	3.8/3 STOT SE 3, H335; 3.3/2 Eye Irrit. 2, H319; 4.1/A1 Aquatic Acute 1, H400; 4.1/C1 Aquatic Chronic 1, H410, M-Chronic:1, M-Acute:1, EUH066	01-2119537431-46-0000
≥ 0,25 - < 0,3 %	tetramethrin (ISO); (1,3-dioxo-1,3,4,5,6,7-hexahydro-2H-isoindol-2-yl)methyl 2,2-dimethyl-3-(2-methylprop-1-en-1-yl)cyclopropanecarboxylate	CAS:7696-12-0 EC:231-711-6 Index:607-727-00-8	3.1/4/Oral Acute Tox. 4, H302; 3.6/2 Carc. 2, H351; 3.8/2 STOT SE 2, H371; 4.1/A1 Aquatic Acute 1, H400; 4.1/C1 Aquatic Chronic 1, H410, M-Chronic:100, M-Acute:100	01-2119480433-40-XXXX
≥ 0,1 - < 0,25 %	cypermethrin cis/trans +/-40/60; (RS)-alfa-cyano-3-phenoxybenzyl (1RS,3RS; 1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	CAS:52315-07-8 EC:257-842-9 Index:607-421-00-4	3.1/4/Inhal Acute Tox. 4, H332 3.1/4/Oral Acute Tox. 4, H302 3.8/3 STOT SE 3, H335 3.9/2 STOT RE 2, H373 4.1/A1 Aquatic Acute 1, H400 4.1/C1 Aquatic Chronic 1, H410, M-Chronic:100000, M-Acute:100000 Acute Toxicity Estimate: ATE - Oral: 500mg/kg bw ATE - Inhalation (Dust/mist): 3.3mg/l	

(*)DECLP Substance classified in accordance with Note P, Annex VI of EC Regulation (EC) 1272/2008.
The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:
Wash with plenty of water and soap.
In case of eyes contact:
Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

Symptoms associated with exposure to pyrethroid compounds include skin and eye irritation, irritability to sound or touch, abnormal facial sensation, sensation of prickling, tingling, or creeping on skin, numbness, headache, dizziness, nausea, vomiting, diarrhea, salivation, and fatigue. At very high levels of exposure, muscle twitching and fluid accumulation in the lungs may occur. Shortness of breath, blisters, welts, and hives are also noted with tetramethrin exposure. In mammals, tremor (T-syndrome) is the characteristic poisoning symptom with Tetramethrin. The product contains Cypermethrin. It can cause paraesthesia

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

Treatment: Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water. CO2 or Dry chemical fire extinguisher

Extinguishing media which must not be used for safety reasons:

direct water jets

5.2. Special hazards arising from the substance or mixture

Overheated aerosol containers burst and can be projected violently from a distance. Burning produces heavy smoke. Do not inhale explosion and combustion gases

Hazardous combustion products:

Polycyclic aromatic hydrocarbons; Carbon monoxide; Inorganic acid gases; HCl; NOx; Cyanide

5.3. Advice for firefighters

Keep containers cool with water spray. Move undamaged containers from immediate hazard area if it can be done safely. Use fire fighter's clothing conforming to European standard EN469. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use suitable breathing apparatus

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment. See protective measures under point 7 and 8. Remove persons to safety

For emergency responders:

Wear personal protection equipment. Evacuate the danger area

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

For cleaning up:

Wash with plenty of water. Clear spills immediately

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists. Do not use on extensive surface areas in premises where there are occupants

Advice on general occupational hygiene:

Do not eat, drink or smoke when using this product. Contaminated clothing should be changed before entering eating areas. Wash hands after use

7.2. Conditions for safe storage, including any incompatibilities

Avoid temperatures > 50°C; Store in a cool, ventilated and dry environment; Avoid the accumulation of electrostatic charges

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Incompatible materials:

Keep away from combustible materials.

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

None in particular

Industrial sector specific solutions:
None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

propane

CAS: 74-98-6	OEL Type	ACGIH	Notes: (D, EX) - Asphyxia
	OEL Type	MAK AUSTRIA	Long Term: 1800 mg/m ³ - 1000 ppm; Short Term: 3600 mg/m ³ - 2000 ppm
	OEL Type	MAK GERMANY	Long Term: 1800 mg/m ³ - 1000 ppm; Short Term: 7200 mg/m ³ - 4000 ppm

Predicted No Effect Concentration (PNEC) values

Piperonyl butoxide (ISO); 2-(2-butoxyethoxy)ethyl
6-propylpiperonyl ether

CAS: 51-03-6	Exposure Route: Fresh Water; PNEC Limit: 1.007 µg/L
	Exposure Route: Marine water; PNEC Limit: 100.7 ng/L
	Exposure Route: Freshwater sediments; PNEC Limit: 19.4 mg/kg
	Exposure Route: Marine water sediments; PNEC Limit: 1.94 mg/kg

cypermethrin cis/trans +/-40/60; (RS)-alfa-cyano-3-phenoxybenzyl (1RS,3RS; 1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

CAS: 52315-07-8	Exposure Route: Fresh Water; PNEC Limit: 0.000001 mg/l
	Remark: assessment factor (10)
	Exposure Route: Freshwater sediments; PNEC Limit: 0.0125 mg/Kgwwt
	Remark: koc=575000

Derived No Effect Level (DNEL) values

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

CAS: 64742-48-9	Exposure Route: Human Dermal; Exposure Frequency: Long Term (repeated)
	Worker Professional: 77 mg/kg bw/day
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term (repeated)
	Worker Professional: 871 mg/kg/day
	Exposure Route: Human Oral; Exposure Frequency: Long Term, local effects
	Worker Professional: 125 mg/kg bw/day
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
	Consumer: 185 mg/kg/day
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, local effects
	Consumer: 125 mg/kg bw/day

Piperonyl butoxide (ISO); 2-(2-butoxyethoxy)ethyl
6-propylpiperonyl ether

CAS: 51-03-6	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
	Worker Industry: 3.875 mg/kg/day; Consumer: 1.937 mg/kg/day
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
	Worker Industry: 7.75 mg/kg/day; Consumer: 3.874 mg/kg/day
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
	Worker Industry: 222 µg/cm ² ; Consumer: 1.937 µg/cm ²
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
	Worker Industry: 3.875 mg/kg/day; Consumer: 1.937 mg/kg/day
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
	Worker Industry: 27.7 mg/kg bw/day; Consumer: 13.888 mg/kg bw/day
	Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects
	Worker Industry: 55.5 mg/kg bw/day; Consumer: 27.776 mg/kg bw/day
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, local effects
	Worker Industry: 440 µg/cm ² ; Consumer: 220 µg/cm ²
	Exposure Route: Human Dermal; Exposure Frequency: Short Term, local effects
	Worker Industry: 444 µg/cm ² ; Consumer: 220 µg/cm ²

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 1.14 mg/kg bw/day

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects
Consumer: 2.286 mg/kg bw/day

8.2. Exposure controls

For the choice of personal protection equipment, refer to the risk assessment carried out by the user in compliance with the national legislation on safety in the workplace.

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

Mask with AX filter, brown color

Thermal Hazards:

N.A.

Environmental exposure controls:

Do not get into drains, soil or any water body; Place the product out of the reach of children, birds, pets, farm animals and other non-target animals

Hygienic and Technical measures

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State Liquified Gas (OPPTS 830.6302 OPPTS 830.6303 OPPTS 830.6304)

Colour: colourless (OPPTS 830.6302 OPPTS 830.6303 OPPTS 830.6304)

Odour: stinging (OPPTS 830.6302 OPPTS 830.6303 OPPTS 830.6304)

Odour threshold: Not Relevant

pH: 7.000 Notes: (Cipac MT 75.3)

Kinematic viscosity: N.A.

Melting point / freezing point: Not Relevant

Initial boiling point and boiling range: Not Relevant

Flash point: fp<23°C Notes: < -60°C (rif. propellente)

Upper/lower flammability or explosive limits: 9.500 % v/v (UEL). 1.800 % v/v (LEL).

Vapour density: Not Relevant

Vapour pressure: Not Relevant

Relative density: 0.784 g/ml (OECD 109)

Solubility in water: slightly soluble

Solubility in oil: Not Relevant

Partition coefficient (n-octanol/water): Not Relevant

Auto-ignition temperature: Not Relevant

Decomposition temperature: Not Relevant

Flammability: Flammable

Particle characteristics:

Particle size: N.A.

VOC (Dir. 2010/75/CE): 43.00% - 337.50 g/l

VOC (volatile carbon): 0

9.2. Other information

Explosive properties: Not explosive

Oxidizing properties: Not oxidant (CHETAH 7.3 (ASTM 2002))

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Data not available.

10.3. Possibility of hazardous reactions

Under normal storage and use condition, no hazardous reactions occur.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

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

Toxicological Information of the Preparation

a) acute toxicity	Not classified Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified Based on available data, the classification criteria are not met
c) serious eye damage/irritation	Not classified Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	Not classified Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

CAS: 64742-48-9 a) acute toxicity LC50 Inhalation Rat > 5000 mg/m³ 4h
LD50 Oral Rat > 5000 mg/kg
LD50 Skin Rabbit > 5000 mg/kg

Piperonyl butoxide (ISO); 2-(2-butoxyethoxy)ethyl
6-propylpiperonyl ether

CAS: 51-03-6 a) acute toxicity LD50 Oral Rat = 4570 mg/kg bw
Notes: male. (OCSPP 870.1100; OECD 401)

LD50 Oral Rat = 7220 mg/kg bw
Notes: female

LD50 Skin Rabbit > 2000 mg/kg bw
Notes: (OCSPP 870.1200; OECD 402)

LC50 Inhalation Vapour Rat > 5.9 mg/l 4h
Notes: (OCSPP 870.1300; OECD 403)

b) skin corrosion/irritation Eye Corrosive Negative

Skin Corrosive Negative

d) respiratory or skin sensitisation Skin Sensitization Negative

f) carcinogenicity Genotoxicity Negative

g) reproductive toxicity Reproductive Toxicity Negative

tetramethrin (ISO); (1,3-dioxo-1,3,4,5,6,7-hexahydro-2H-isoindol-2-yl)methyl 2,2-dimethyl-3-(2-methylprop-1-en-1-yl)cyclopropanecarboxylate

CAS: 7696-12-0 a) acute toxicity LD50 Oral Rat > 2000 mg/kg bw
LD50 Skin Rat > 2000 mg/kg bw

- LC50 Inhalation Rat > 5.63 mg/l 4h
- b) skin corrosion/irritation Eye Corrosive Eyes Rat Negative
Skin Corrosive Skin Rat Negative
Skin Irritant Skin Rat Negative
Eye Irritant Eyes Rat Negative
- d) respiratory or skin sensitisation Skin Sensitization Skin Rat Negative
- e) germ cell mutagenicity Mutagenesis Oral Rat Negative 3000 ppm 90 d
- g) reproductive toxicity Reproductive Toxicity Rat Negative

cypermethrin cis/trans +/-40/60; (RS)-alfa-cyano-3-phenoxybenzyl (1RS,3RS; 1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

CAS: 52315-07-8 a) acute toxicity ATE - Oral: 500 mg/kg bw
ATE - Inhalation (Dust/mist): 3.3 mg/l
LOAEL neurotoxicity Rat = 60 mg/kg bw
LD50 Oral Rat = 500 mg/kg bw
LD50 Skin Rat > 2000 mg/kg bw
LC50 Inhalation Rat = 3.3 mg/l 4h
NOAEL neurotoxicity Rat = 20 mg/kg bw

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

Very toxic to aquatic organisms.

Very toxic to aquatic life with long lasting effects.

List of Eco-Toxicological properties of the product

The product is classified: Aquatic Acute 1(H400), Aquatic Chronic 1(H410)

List of Eco-Toxicological properties of the components

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

CAS: 64742-48-9 a) Aquatic acute toxicity: EL50 Algae > 1000 mg/L 72 h
a) Aquatic acute toxicity: LC50 Fish > 1000 mg/L 96 h
a) Aquatic acute toxicity: EC50 SEAFOOD = 1000 mg/L 48 h

Piperonyl butoxide (ISO); 2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether

CAS: 51-03-6 a) Aquatic acute toxicity: LC50 Fish = 3.94 mg/L 96 h - (Cyprinodon variegatus) (OECD 203)
a) Aquatic acute toxicity: EC50 Algae = 3.89 mg/L 72 h - (Selenastrum capricornutum) (OECD 201)
a) Aquatic acute toxicity: EC50 Daphnia = 0.51 mg/L 48 h - (Daphnia magna) (OECD 202)
b) Aquatic chronic toxicity: NOEC Daphnia = 0.03 mg/L - 21d
b) Aquatic chronic toxicity: NOEC Fish = 0.053 mg/L - (Cyprinodon variegatus) (OECD 210 OCSP 850.1400)
b) Aquatic chronic toxicity: NOEC SEAFOOD = 0.03 mg/L - 21d (Daphnia magna)
b) Aquatic chronic toxicity: NOEC Algae = 0.824 mg/L - (Selenastrum capricornutum) (OECD 201)
a) Aquatic acute toxicity: EC50 SEAFOOD = 0.23 mg/L 96 h - Crassostrea virginica

tetramethrin (ISO); (1,3-dioxo-1,3,4,5,6,7-hexahydro-2H-isoindol-2-yl)methyl 2,2-dimethyl-3-(2-methylprop-1-en-1-yl)cyclopropanecarboxylate

CAS: 7696-12-0 a) Aquatic acute toxicity: LC50 Fish = 0.033 mg/L 96 h - (Brachydanio rerio) (OECD 203)
a) Aquatic acute toxicity: EC50 Algae = 1.36 mg/L 72 h - (Scenedesmus subspicatus) (OECD 201)
a) Aquatic acute toxicity: EC50 Daphnia = 0.47 mg/L 48 h - (Daphnia magna)(OECD 202)
a) Aquatic acute toxicity: LC50 Fish = 0.0037 mg/L 96 h - Oncorhynchus mykiss
b) Aquatic chronic toxicity: NOEC Algae = 0.72 mg/L - (Selenastrum capricornutum) (OECD 201)

cypermethrin cis/trans +/-40/60; (RS)-alfa-cyano-3-phenoxybenzyl (1RS,3RS; 1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

CAS: 52315-07-8 a) Aquatic acute toxicity: LC50 Fish = 0.0028 mg/L 96 h - *Salmo gairdneri*
a) Aquatic acute toxicity: EC50 Daphnia = 0.0003 mg/L 48 h - *Daphnia magna*
a) Aquatic acute toxicity: EC50 Algae > 0.1 mg/L 96 h - *Selenastrum capricornutum*
b) Aquatic chronic toxicity: NOEC Fish > 0.00003 mg/L - 34 d *Pimephales promelas*

12.2. Persistence and degradability

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

CAS: 64742-48-9 Readily biodegradable

Piperonyl butoxide (ISO); 2-(2-butoxyethoxy)ethyl
6-propylpiperonyl ether

CAS: 51-03-6 Non-readily biodegradable Test: OECD 301

tetramethrin (ISO); (1,3-dioxo-1,3,4,5,6,7-hexahydro-2H-isoindol-2-yl)methyl 2,2-dimethyl-3-(2-methylprop-1-en-1-yl)cyclopropanecarboxylate

CAS: 7696-12-0 Test: OECD 301; Duration: vebi4; Value: 23

cypermethrin cis/trans +/-40/60; (RS)-alfa-cyano-3-phenoxybenzyl (1RS,3RS; 1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

CAS: 52315-07-8 Not persistent and Biodegradable Test: OECD 308; Value: 0.948
Notes: 12°C

12.3. Bioaccumulative potential

Piperonyl butoxide (ISO); 2-(2-butoxyethoxy)ethyl
6-propylpiperonyl ether

CAS: 51-03-6 Not bioaccumulative Test: BCF - Bioconcentration factor; Value: 757
Notes: earthworm

Not bioaccumulative Test: LogKow; Value: 4.8
Notes: (pH 6.5) (OECD 117)

tetramethrin (ISO); (1,3-dioxo-1,3,4,5,6,7-hexahydro-2H-isoindol-2-yl)methyl 2,2-dimethyl-3-(2-methylprop-1-en-1-yl)cyclopropanecarboxylate

CAS: 7696-12-0 Bioaccumulative Test: LogKow; Value: > 4.09
Notes: OECD 107

cypermethrin cis/trans +/-40/60; (RS)-alfa-cyano-3-phenoxybenzyl (1RS,3RS; 1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

CAS: 52315-07-8 Not bioaccumulative Test: BCF - Bioconcentration factor; Value: 374
Notes: BCFwin (EPISUIT) 417L/Kgwwt

Not bioaccumulative Test: Kow - Partition coefficient; Value: 5.3

12.4. Mobility in soil

tetramethrin (ISO); (1,3-dioxo-1,3,4,5,6,7-hexahydro-2H-isoindol-2-yl)methyl 2,2-dimethyl-3-(2-methylprop-1-en-1-yl)cyclopropanecarboxylate

CAS: 7696-12-0 Not mobile Test: Koc
Notes: 2045-2754

cypermethrin cis/trans +/-40/60; (RS)-alfa-cyano-3-phenoxybenzyl (1RS,3RS; 1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

CAS: 52315-07-8 Not mobile Test: Koc; Value: 574360
Notes: QSAR from 80653to
574360 mL/g

Not mobile Test: DT50; Value: 17.2
Notes: 12°C

12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration >= 0.1%

12.6 Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7 Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Additional disposal information:

Dispose of unused product and packaging as hazardous waste.

Notes (Irish Regulation):

In case of rodenticides: At the end of the treatment, dispose of uneaten bait and the packaging in accordance with EPA requirements for the disposal of hazardous waste. Use of gloves is recommended.

Professional and Trained Professional users: dispose of dead rodents in accordance with local requirements, using one of the following methods of disposal (in order of preference): via an on-site or on-farm small carcass incinerator; with the site's or farm's domestic waste; in the site's or farm's normal non-hazardous waste; or by burial on-site, but away from sensitive areas.

Rodents can be disease carriers. Do not touch dead rodents with bare hands, use gloves or use tools such as tongs when disposing them.

SECTION 14: Transport information

14.1. UN number or ID number

1950

14.2. UN proper shipping name

ADR-Shipping Name: AEROSOLS, flammable

IATA-Technical name: AEROSOLS, FLAMMABLE

IMDG-Technical name: AEROSOLS

14.3. Transport hazard class(es)

ADR-Class: 2

IATA-Class: 2.1

IMDG-Class: 2

14.4. Packing group

ADR-Packing Group: -

IATA-Packing group: -

IMDG-Packing group: -

14.5. Environmental hazards

Marine pollutant: Yes

Environmental Pollutant: Yes

IMDG-EMS: F-D, S-U

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: 2.1

ADR - Hazard identification number: -

ADR-Special Provisions: 190 327 344 625

ADR-Transport category (Tunnel restriction code): 2 (D)

Air (IATA):

IATA-Passenger Aircraft: 203

IATA-Cargo Aircraft: 203

IATA-Label: 2.1

IATA-Subsidiary hazards: -

IATA-Erg: 10L

IATA-Special Provisions: A145 A167 A802

Sea (IMDG):

IMDG-Stowage Code: SW1 SW22

IMDG-Stowage Note: SG69

IMDG-Subsidiary hazards: See SP63

IMDG-Special Provisions: 63 190 277 327 344 381 959

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EU) n. 2020/878

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)
 Regulation (EU) n. 618/2012 (ATP 3 CLP)
 Regulation (EU) n. 487/2013 (ATP 4 CLP)
 Regulation (EU) n. 944/2013 (ATP 5 CLP)
 Regulation (EU) n. 605/2014 (ATP 6 CLP)
 Regulation (EU) n. 2015/1221 (ATP 7 CLP)
 Regulation (EU) n. 2016/918 (ATP 8 CLP)
 Regulation (EU) n. 2016/1179 (ATP 9 CLP)
 Regulation (EU) n. 2017/776 (ATP 10 CLP)
 Regulation (EU) n. 2018/669 (ATP 11 CLP)
 Regulation (EU) n. 2018/1480 (ATP 13 CLP)
 Regulation (EU) n. 2019/521 (ATP 12 CLP)
 Regulation (EU) n. 2020/217 (ATP 14 CLP)
 Regulation (EU) n. 2020/1182 (ATP 15 CLP)
 Regulation (EU) n. 2021/643 (ATP 16 CLP)
 Regulation (EU) n. 2021/849 (ATP 17 CLP)
 Regulation (EU) n. 2022/692 (ATP 18 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3, 40

Restrictions related to the substances contained: 75

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1	Lower-tier threshold (tonnes)	Upper-tier threshold (tonnes)
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Product belongs to category: P3a	150	500
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Product belongs to category: E1	100	200
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Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

German Water Hazard Class.

Class 3: extremely hazardous.

SVHC Substances:

No SVHC substances present in concentration $\geq 0.1\%$

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Code	Description
EUH066	Repeated exposure may cause skin dryness or cracking.
H220	Extremely flammable gas.
H222, H229	Extremely flammable aerosol. Pressurized container: may burst if heated.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H371	May cause damage to organs (nervous system) if inhaled.
H373	May cause damage to organs (nervous system) through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
2.2/1	Flam. Gas 1	Flammable gas, Category 1
2.3/1	Aerosols 1	Aerosol, Category 1
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3

3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.6/2	Carc. 2	Carcinogenicity, Category 2
3.8/2	STOT SE 2	Specific target organ toxicity — single exposure, Category 2
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
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Aerosols 1, H222+H229	On basis of test data
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.
IRCCS: Scientific Institute for Research, Hospitalization and Health Care
KAFH: KAFH
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
LDLo: Leathal Dose Low
N.A.: Not Applicable
N/A: Not Applicable
N/D: Not defined/ Not available
NA: Not available
NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.
WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- Safety Data Sheet
- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 3: Composition/information on ingredients
- SECTION 8: Exposure controls/personal protection
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 15: Regulatory information