

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Flumethrin (2%) Formulation

Version 4.0 Revision Date: 14.04.2025 SDS Number: 10225284-00010 Date of last issue: 24.02.2025 Date of first issue: 12.11.2021

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

#### 1.1 Product identifier

Trade name : Flumethrin (2%) Formulation

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

Use of the Substance/Mixture : Veterinary product

Recommended restrictions on use : Not applicable

#### 1.3 Details of the supplier of the safety data sheet

Company : MSD  
Drynam Road  
K67 P263 Dublin, Ireland

Telephone : +1-908-740-4000

E-mail address of person responsible for the SDS : EHSDATASTEWARD@msd.com

#### 1.4 Emergency telephone number

+1-908-423-6000

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

|  |  |
|--|--|
| Acute toxicity, Category 3                                     | H301: Toxic if swallowed.  |
| Acute toxicity, Category 2                                     | H310: Fatal in contact with skin.  |
| Skin irritation, Category 2                                    | H315: Causes skin irritation.  |
| Eye irritation, Category 2                                     | H319: Causes serious eye irritation.                                     |
| Reproductive toxicity, Category 1B                             | H360D: May damage the unborn child.                                      |
| Specific target organ toxicity - single exposure, Category 2   | H371: May cause damage to organs.  |
| Specific target organ toxicity - repeated exposure, Category 2 | H373: May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard, Category 1                                  | H304: May be fatal if swallowed and enters airways.                      |
| Long-term (chronic) aquatic hazard, Category 2                 | H411: Toxic to aquatic life with long lasting effects.                   |

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### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word :

Danger

Hazard statements :

H301 Toxic if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H310 Fatal in contact with skin.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H360D May damage the unborn child.  
H371 May cause damage to organs.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements :

**Prevention:**  
P201 Obtain special instructions before use.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### Response:

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.  
P302 + P352 + P310 IF ON SKIN: Wash with plenty of water. Immediately call a POISON CENTER/ doctor.  
P391 Collect spillage.

#### Hazardous components which must be listed on the label:

Paraffin oil  
Xylene  
Flumethrin

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

May form explosive dust-air mixture during processing, handling or other means.

# SAFETY DATA SHEET

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Commission Regulation (EU) 2020/878



## Flumethrin (2%) Formulation

Version 4.0 Revision Date: 14.04.2025 SDS Number: 10225284-00010 Date of last issue: 24.02.2025 Date of first issue: 12.11.2021

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

| Chemical name | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification   | Concentration<br>(% w/w) |
|---------------|---|--|--------------------------|
| Paraffin oil  | 8012-95-1<br>232-384-2                                | Asp. Tox. 1; H304<br>Aquatic Chronic 4;<br>H413  | >= 50 - < 70             |
| Xylene        | 1330-20-7<br>215-535-7<br>601-022-00-9                | Flam. Liq. 3; H226<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335<br>STOT RE 2; H373<br>(Auditory system)<br>Asp. Tox. 1; H304<br>Aquatic Chronic 3;<br>H412<br><br>Acute toxicity esti-<br>mate<br><br>Acute inhalation tox-<br>icity (vapour): 11 mg/l<br>Acute dermal toxicity:<br>1,100 mg/kg | >= 10 - < 20             |
| Flumethrin    | 69770-45-2<br>274-110-4                               | Acute Tox. 2; H300<br>Acute Tox. 1; H310<br>Eye Irrit. 2; H319<br>Repr. 1B; H360D<br>STOT SE 1; H370<br>STOT RE 1; H372<br>Aquatic Chronic 1;<br>H410<br><br>M-Factor (Chronic<br>aquatic toxicity): 1<br><br>Acute toxicity esti-<br>mate<br><br>Acute dermal toxicity:<br>5 mg/kg  | >= 2.5 - < 10            |

For explanation of abbreviations see section 16.

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

|                            |   |
|----------------------------|---|
| General advice             | : In the case of accident or if you feel unwell, seek medical advice immediately.<br>When symptoms persist or in all cases of doubt seek medical advice.  |
| Protection of first-aiders | : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).   |
| If inhaled                 | : If inhaled, remove to fresh air.<br>Get medical attention.  |
| In case of skin contact    | : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.<br>Get medical attention immediately.<br>Wash clothing before reuse.<br>Destroy contaminated shoes.     |
| In case of eye contact     | : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.<br>If easy to do, remove contact lens, if worn.<br>Get medical attention.  |
| If swallowed               | : If swallowed, DO NOT induce vomiting.<br>If vomiting occurs have person lean forward.<br>Call a physician or poison control centre immediately.<br>Rinse mouth thoroughly with water.<br>Never give anything by mouth to an unconscious person. |

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

|       |   |
|-------|---|
| Risks | : Toxic if swallowed.<br>May be fatal if swallowed and enters airways.<br>Fatal in contact with skin.<br>Causes skin irritation.<br>Causes serious eye irritation.<br>May damage the unborn child.<br>May cause damage to organs.<br>May cause damage to organs through prolonged or repeated exposure. |
|-------|---|

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

|           |   |
|-----------|---|
| Treatment | : Treat symptomatically and supportively. |
|-----------|---|

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
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|                |                              |                               |   |
|----------------|------------------------------|-------------------------------|---|
| Version<br>4.0 | Revision Date:<br>14.04.2025 | SDS Number:<br>10225284-00010 | Date of last issue: 24.02.2025<br>Date of first issue: 12.11.2021 |
|----------------|------------------------------|-------------------------------|---|

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : None known.

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

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## SECTION 6: Accidental release measures

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

Personal precautions : Evacuate personnel to safe areas.  
Only trained personnel should re-enter the area.  
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

### 6.2 Environmental precautions

Environmental precautions : Avoid release to the environment.  
Prevent further leakage or spillage if safe to do so.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
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## Flumethrin (2%) Formulation

|                |                              |                               |   |
|----------------|------------------------------|-------------------------------|---|
| Version<br>4.0 | Revision Date:<br>14.04.2025 | SDS Number:<br>10225284-00010 | Date of last issue: 24.02.2025<br>Date of first issue: 12.11.2021 |
|----------------|------------------------------|-------------------------------|---|

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).  
Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.  
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

|                         |  |
|-------------------------|--|
| Technical measures      | : Static electricity may accumulate and ignite suspended dust causing an explosion.<br>Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.   |
| Local/Total ventilation | : If sufficient ventilation is unavailable, use with local exhaust ventilation.  |
| Advice on safe handling | : Do not get on skin or clothing.<br>Do not breathe mist or vapours.<br>Do not swallow.<br>Do not get in eyes.<br>Wash skin thoroughly after handling.<br>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment<br>Keep container tightly closed.<br>Minimize dust generation and accumulation.<br>Keep container closed when not in use.<br>Keep away from heat and sources of ignition.<br>Take precautionary measures against static discharges.<br>Do not eat, drink or smoke when using this product.<br>Take care to prevent spills, waste and minimize release to the environment. |
| Hygiene measures        | : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.<br>The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures,   |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Flumethrin (2%) Formulation

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10225284-00010

Date of last issue: 24.02.2025  
Date of first issue: 12.11.2021

industrial hygiene monitoring, medical surveillance and the use of administrative controls.

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

Requirements for storage areas and containers : Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.

Advice on common storage : Do not store with the following product types:  
Strong oxidizing agents  
Self-reactive substances and mixtures  
Organic peroxides  
Flammable liquids  
Flammable solids  
Pyrophoric liquids  
Pyrophoric solids  
Self-heating substances and mixtures  
Substances and mixtures, which in contact with water, emit flammable gases  
Explosives  
Gases

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components  | CAS-No.   | Value type (Form of exposure)           | Control parameters               | Basis      |
|---|-----------|---|----------------------------------|------------|
| Paraffin oil  | 8012-95-1 | OELV - 8 hrs (TWA) (inhalable fraction) | 5 mg/m <sup>3</sup>              | IE OEL     |
| Xylene  | 1330-20-7 | OELV - 8 hrs (TWA)                      | 50 ppm<br>221 mg/m <sup>3</sup>  | IE OEL     |
| Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body |           |   |                                  |            |
|   |           | OELV - 15 min (STEL)                    | 100 ppm<br>442 mg/m <sup>3</sup> | IE OEL     |
| Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body |           |   |                                  |            |
|   |           | TWA                                     | 50 ppm<br>221 mg/m <sup>3</sup>  | 2000/39/EC |
| Further information: Identifies the possibility of significant uptake through the skin, Indicative  |           |   |                                  |            |
|   |           | STEL                                    | 100 ppm<br>442 mg/m <sup>3</sup> | 2000/39/EC |
| Further information: Identifies the possibility of significant uptake through the   |           |   |                                  |            |

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Commission Regulation (EU) 2020/878



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|            |                           |                  |                            |          |
|------------|---------------------------|------------------|----------------------------|----------|
|            |                           | skin, Indicative |                            |          |
| Flumethrin | 69770-45-2                | TWA              | 30 µg/m3 (OEB 3)           | Internal |
|            | Further information: Skin |                  |                            |          |
|            |                           | Wipe limit       | 300 µg/100 cm <sup>2</sup> | Internal |

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

| Substance name                          | End Use      | Exposure routes | Potential health effects   | Value              |
|---|--------------|-----------------|----------------------------|--------------------|
| Xylene                                  | Workers      | Inhalation      | Long-term systemic effects | 221 mg/m3          |
|   | Workers      | Inhalation      | Acute systemic effects     | 442 mg/m3          |
|   | Workers      | Inhalation      | Long-term local effects    | 221 mg/m3          |
|   | Workers      | Inhalation      | Acute local effects        | 442 mg/m3          |
|   | Workers      | Skin contact    | Long-term systemic effects | 212 mg/kg bw/day   |
|   | Consumers    | Inhalation      | Long-term systemic effects | 65.3 mg/m3         |
|   | Consumers    | Inhalation      | Acute systemic effects     | 260 mg/m3          |
|   | Consumers    | Inhalation      | Long-term local effects    | 65.3 mg/m3         |
|   | Consumers    | Inhalation      | Acute local effects        | 260 mg/m3          |
|   | Consumers    | Skin contact    | Long-term systemic effects | 125 mg/kg bw/day   |
| Glycerides, mixed decanoyl and octanoyl | Consumers    | Ingestion       | Long-term systemic effects | 12.5 mg/kg bw/day  |
|   | Workers      | Inhalation      | Long-term systemic effects | 177.79 mg/m3       |
|   | Workers      | Skin contact    | Long-term systemic effects | 25.21 mg/kg bw/day |
|   | Consumers    | Inhalation      | Long-term systemic effects | 43.84 mg/m3        |
|   | Consumers    | Skin contact    | Long-term systemic effects | 12.61 mg/kg bw/day |
|   | Consumers    | Ingestion       | Long-term systemic effects | 12.61 mg/kg bw/day |
|   | Paraffin oil | Inhalation      | Long-term systemic effects | 5 mg/m3            |
|   | Workers      | Inhalation      | Short-term exposure        | 5 mg/m3            |
|   | Workers      | Inhalation      | Long-term local effects    | 5 mg/m3            |
|   | Workers      | Inhalation      | Acute local effects        | 5 mg/m3            |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

| Substance name | Environmental Compartment | Value      |
|----------------|---------------------------|------------|
| Xylene         | Fresh water               | 0.327 mg/l |
|                | Intermittent use/release  | 0.327 mg/l |
|                | Marine water              | 0.327 mg/l |

# SAFETY DATA SHEET

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Commission Regulation (EU) 2020/878



## Flumethrin (2%) Formulation

Version 4.0 Revision Date: 14.04.2025 SDS Number: 10225284-00010 Date of last issue: 24.02.2025 Date of first issue: 12.11.2021

|   |                            |                               |
|---|----------------------------|-------------------------------|
|   | Sewage treatment plant     | 6.58 mg/l                     |
|   | Fresh water sediment       | 12.46 mg/kg dry weight (d.w.) |
|   | Marine sediment            | 12.46 mg/kg dry weight (d.w.) |
|   | Soil                       | 2.31 mg/kg dry weight (d.w.)  |
| Glycerides, mixed decanoyl and octanoyl | Oral (Secondary Poisoning) | 0.03 mg/kg food               |

### 8.2 Exposure controls

#### Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.

#### Personal protective equipment

Eye/face protection : Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.

#### Hand protection

Material : Chemical-resistant gloves

Remarks : Consider double gloving.

Skin and body protection : Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.

Filter type : Filter should conform to I.S. EN 14387

Filter type : Combined particulates and organic vapour type (A-P)

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : light brown

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



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|                |                              |                               |   |
|----------------|------------------------------|-------------------------------|---|
| Version<br>4.0 | Revision Date:<br>14.04.2025 | SDS Number:<br>10225284-00010 | Date of last issue: 24.02.2025<br>Date of first issue: 12.11.2021 |
|----------------|------------------------------|-------------------------------|---|

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|  |   |   |
|--|---|---|
| Odour  | : | odourized   |
| Odour Threshold                                  | : | No data available   |
| Melting point/freezing point                     | : | No data available   |
| Initial boiling point and boiling range          | : | No data available   |
| Flammability (solid, gas)                        | : | May form explosive dust-air mixture during processing, handling or other means. |
| Flammability (liquids)                           | : | Not applicable  |
| Upper explosion limit / Upper flammability limit | : | No data available   |
| Lower explosion limit / Lower flammability limit | : | No data available   |
| Flash point                                      | : | No data available   |
| Auto-ignition temperature                        | : | No data available   |
| Decomposition temperature                        | : | No data available   |
| pH   | : | No data available   |
| Viscosity  | : |   |
| Viscosity, kinematic                             | : | No data available   |
| Solubility(ies)                                  | : |   |
| Water solubility                                 | : | No data available   |
| Partition coefficient: n-octanol/water           | : | Not applicable  |
| Vapour pressure                                  | : | No data available   |
| Relative density                                 | : | No data available   |
| Density  | : | 0.750 - 0.950 g/cm <sup>3</sup>   |
| Relative vapour density                          | : | No data available   |
| Particle characteristics                         | : |   |
| Particle size                                    | : | Not applicable  |

## 9.2 Other information

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Flumethrin (2%) Formulation

Version 4.0 Revision Date: 14.04.2025 SDS Number: 10225284-00010 Date of last issue: 24.02.2025 Date of first issue: 12.11.2021

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|                      |  |
|----------------------|--|
| Explosives           | : Not explosive  |
| Oxidizing properties | : The substance or mixture is not classified as oxidizing. |
| Evaporation rate     | : No data available  |
| Molecular weight     | : No data available  |

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : May form explosive dust-air mixture during processing, handling or other means.  
Can react with strong oxidizing agents.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.  
Avoid dust formation.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

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

Information on likely routes of exposure : Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Toxic if swallowed.  
Fatal in contact with skin.

#### Product:

Acute oral toxicity : Acute toxicity estimate: 187.52 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Flumethrin (2%) Formulation

Version 4.0      Revision Date: 14.04.2025      SDS Number: 10225284-00010      Date of last issue: 24.02.2025  
Date of first issue: 12.11.2021

---

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 183.33 mg/kg  
Method: Calculation method

### Components:

#### **Paraffin oil:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

#### **Xylene:**

Acute oral toxicity : LD50 (Rat): 3,523 mg/kg  
Method: Directive 67/548/EEC, Annex V, B.1.  
Acute inhalation toxicity : Acute toxicity estimate: 11 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Expert judgement  
Remarks: Based on national or regional regulation.  
Acute dermal toxicity : Acute toxicity estimate: 1,100 mg/kg  
Method: Expert judgement  
Remarks: Based on national or regional regulation.

#### **Flumethrin:**

Acute oral toxicity : LD50 (Rat): > 20 mg/kg  
LD50 (Mouse): > 20 mg/kg  
Acute inhalation toxicity : LC50 (Rat): > 2,934 mg/l  
Acute dermal toxicity : LD50 (Rat): > 5 mg/kg

#### **Skin corrosion/irritation**

Causes skin irritation.

### Components:

#### **Paraffin oil:**

Species : Rabbit  
Result : No skin irritation

#### **Xylene:**

Species : Rabbit  
Result : Skin irritation

# SAFETY DATA SHEET

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Date of first issue: 12.11.2021

---

### Flumethrin:

||| Result : No skin irritation

### Serious eye damage/eye irritation

||| Causes serious eye irritation.

### Components:

#### Paraffin oil:

||| Species : Rabbit  
||| Result : No eye irritation

#### Xylene:

||| Species : Rabbit  
||| Result : Irritation to eyes, reversing within 21 days

#### Flumethrin:

||| Result : Mild eye irritation

### Respiratory or skin sensitisation

#### Skin sensitisation

||| Not classified based on available information.

#### Respiratory sensitisation

||| Not classified based on available information.

### Components:

#### Xylene:

||| Test Type : Local lymph node assay (LLNA)  
||| Exposure routes : Skin contact  
||| Species : Mouse  
||| Result : negative

### Germ cell mutagenicity

||| Not classified based on available information.

### Components:

#### Xylene:

||| Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Test Type: Chromosome aberration test in vitro  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Result: negative

Test Type: In vitro sister chromatid exchange assay in mam-

# SAFETY DATA SHEET

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Date of last issue: 24.02.2025  
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|                                    |   |  |
|------------------------------------|---|--|
|                                    |   | malian cells<br>Result: negative   |
| Genotoxicity in vivo               | : | Test Type: Rodent dominant lethal test (germ cell) (in vivo)<br>Species: Mouse<br>Application Route: Skin contact<br>Result: negative                  |
| <b>Flumethrin:</b>                 |   |  |
| Genotoxicity in vitro              | : | Test Type: Microbial mutagenesis assay (Ames test)<br>Test system: Salmonella typhimurium<br>Result: equivocal   |
|                                    |   | Test Type: Chromosomal aberration<br>Test system: Chinese hamster ovary cells<br>Result: positive<br>Remarks: Not classified due to inconclusive data. |
|                                    |   | Test Type: Chromosomal aberration<br>Test system: Human lymphocytes<br>Result: negative  |
|                                    |   | Test Type: in vitro micronucleus test<br>Test system: Mouse<br>Result: negative  |
| Germ cell mutagenicity- Assessment | : | Weight of evidence does not support classification as a germ cell mutagen.   |

### Carcinogenicity

Not classified based on available information.

### Components:

#### Xylene:

|                   |   |           |
|-------------------|---|-----------|
| Species           | : | Rat       |
| Application Route | : | Ingestion |
| Exposure time     | : | 103 weeks |
| Result            | : | negative  |

#### Flumethrin:

|                   |   |                       |
|-------------------|---|-----------------------|
| Species           | : | Rat                   |
| Application Route | : | Oral                  |
| Exposure time     | : | 2 Years               |
| NOAEL             | : | 0.5 mg/kg body weight |
| Result            | : | negative              |

|                              |   |  |
|------------------------------|---|--|
| Carcinogenicity - Assessment | : | Weight of evidence does not support classification as a carcinogen |
|------------------------------|---|--|

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Flumethrin (2%) Formulation

Version  
4.0

Revision Date:  
14.04.2025

SDS Number:  
10225284-00010

Date of last issue: 24.02.2025  
Date of first issue: 12.11.2021

### Reproductive toxicity

||| May damage the unborn child.

#### Components:

##### **Xylene:**

|                               |   |
|-------------------------------|---|
| Effects on fertility          | : Test Type: One-generation reproduction toxicity study<br>Species: Rat<br>Application Route: inhalation (vapour)<br>Result: negative |
| Effects on foetal development | : Test Type: Embryo-foetal development<br>Species: Rat<br>Application Route: inhalation (vapour)<br>Result: negative                  |

##### **Flumethrin:**

|                                    |  |
|------------------------------------|--|
| Effects on foetal development      | : Test Type: Development<br>Species: Rat<br>Application Route: Oral<br>Developmental Toxicity: NOAEL: 0.36 mg/kg body weight<br>Result: Maternal toxicity observed., Reduced offspring weight gain, foetal abnormalities |
|                                    | : Test Type: Development<br>Species: Rat<br>Application Route: Oral<br>Developmental Toxicity: NOAEL: 0.5 mg/kg body weight<br>Result: Maternal toxicity observed., Skeletal malformations, Reduced foetal weight        |
|                                    | : Test Type: Development<br>Species: Rabbit<br>Application Route: Oral<br>Developmental Toxicity: NOAEL: 1.7 mg/kg body weight<br>Result: No teratogenic potential   |
| Reproductive toxicity - Assessment | : May damage the unborn child.   |

### **STOT - single exposure**

||| May cause damage to organs.

#### Components:

##### **Xylene:**

|            |                                     |
|------------|-------------------------------------|
| Assessment | : May cause respiratory irritation. |
|------------|-------------------------------------|

##### **Flumethrin:**

|                 |                            |
|-----------------|----------------------------|
| Exposure routes | : Oral                     |
| Assessment      | : Causes damage to organs. |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Flumethrin (2%) Formulation

Version 4.0      Revision Date: 14.04.2025      SDS Number: 10225284-00010      Date of last issue: 24.02.2025  
Date of first issue: 12.11.2021

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### STOT - repeated exposure

|| May cause damage to organs through prolonged or repeated exposure.

#### Components:

##### **Xylene:**

|                 |   |  |
|-----------------|---|--|
| Exposure routes | : | inhalation (vapour)  |
| Target Organs   | : | Auditory system  |
| Assessment      | : | Shown to produce significant health effects in animals at concentrations of >0.2 to 1 mg/l/6h/d. |

##### **Flumethrin:**

|                 |   |   |
|-----------------|---|---|
| Exposure routes | : | Oral  |
| Assessment      | : | Causes damage to organs through prolonged or repeated exposure. |

### Repeated dose toxicity

#### Components:

##### **Paraffin oil:**

|                   |   |             |
|-------------------|---|-------------|
| Species           | : | Rat, female |
| LOAEL             | : | 161 mg/kg   |
| Application Route | : | Ingestion   |
| Exposure time     | : | 90 Days     |

##### **Xylene:**

|                   |   |                                      |
|-------------------|---|--------------------------------------|
| Species           | : | Rat                                  |
| LOAEL             | : | > 0.2 - 1 mg/l                       |
| Application Route | : | inhalation (vapour)                  |
| Exposure time     | : | 13 Weeks                             |
| Remarks           | : | Based on data from similar materials |

|                   |   |           |
|-------------------|---|-----------|
| Species           | : | Rat       |
| LOAEL             | : | 150 mg/kg |
| Application Route | : | Ingestion |
| Exposure time     | : | 90 Days   |

##### **Flumethrin:**

|                   |   |                                      |
|-------------------|---|--------------------------------------|
| Species           | : | Rat                                  |
| NOAEL             | : | 0.7 mg/kg                            |
| Application Route | : | Oral                                 |
| Exposure time     | : | 13 Weeks                             |
| Target Organs     | : | digestive system, Skin               |
| Symptoms          | : | decrease in appetite, Skin disorders |

|                   |   |                              |
|-------------------|---|------------------------------|
| Species           | : | Dog                          |
| NOAEL             | : | 0.88 mg/kg                   |
| Application Route | : | Oral                         |
| Exposure time     | : | 13 Weeks                     |
| Target Organs     | : | digestive system, Hair, Skin |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Flumethrin (2%) Formulation

Version 4.0      Revision Date: 14.04.2025      SDS Number: 10225284-00010      Date of last issue: 24.02.2025  
Date of first issue: 12.11.2021

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||| Symptoms : decrease in appetite, Skin disorders

### Aspiration toxicity

||| May be fatal if swallowed and enters airways.

### Components:

#### Paraffin oil:

||| The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

#### Xylene:

||| The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

## 11.2 Information on other hazards

### Endocrine disrupting properties

||| Not classified based on available information.

### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

---

## SECTION 12: Ecological information

### 12.1 Toxicity

### Components:

#### Paraffin oil:

||| Toxicity to fish : LL50 (Scophthalmus maximus (turbot)): > 100 mg/l  
Exposure time: 96 h  
Test substance: Water Accommodated Fraction  
Remarks: Based on data from similar materials

||| Toxicity to daphnia and other aquatic invertebrates : EL50 (Acartia tonsa (Calanoid copepod)): > 100 mg/l  
Exposure time: 48 h  
Test substance: Water Accommodated Fraction  
Remarks: Based on data from similar materials

||| Toxicity to algae/aquatic plants : EL50 (Skeletonema costatum (marine diatom)): > 100 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Remarks: Based on data from similar materials

||| NOELR (Skeletonema costatum (marine diatom)): > 1 mg/l

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Flumethrin (2%) Formulation

Version  
4.0

Revision Date:  
14.04.2025

SDS Number:  
10225284-00010

Date of last issue: 24.02.2025  
Date of first issue: 12.11.2021

Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Remarks: Based on data from similar materials

### Xylene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 13.5 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l  
Exposure time: 24 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 (Skeletonema costatum (marine diatom)): 10 mg/l  
Exposure time: 72 h

Toxicity to microorganisms : NOEC : > 100 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
Remarks: Based on data from similar materials

Toxicity to fish (Chronic toxicity) : NOEC: > 0.1 - < 1 mg/l  
Exposure time: 35 d  
Species: Danio rerio (zebra fish)  
Method: OECD Test Guideline 210  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EL10: > 1 - 10 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211  
Remarks: Based on data from similar materials

### Flumethrin:

Toxicity to fish (Chronic toxicity) : NOEC: 0.046 mg/l  
Exposure time: 144 h  
Species: Danio rerio (zebra fish)

M-Factor (Chronic aquatic toxicity) : 1

## 12.2 Persistence and degradability

### Components:

#### Xylene:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: > 70 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
Remarks: Based on data from similar materials

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Flumethrin (2%) Formulation

Version 4.0      Revision Date: 14.04.2025      SDS Number: 10225284-00010      Date of last issue: 24.02.2025  
Date of first issue: 12.11.2021

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### 12.3 Bioaccumulative potential

#### Components:

##### **Paraffin oil:**

Partition coefficient: n-octanol/water : log Pow: > 4  
Remarks: Calculation

##### **Xylene:**

Partition coefficient: n-octanol/water : log Pow: 3.16  
Remarks: Calculation

##### **Flumethrin:**

Partition coefficient: n-octanol/water : log Pow: 6.2

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

No data available

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.  
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.  
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.  
Do not dispose of waste into sewer.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## Flumethrin (2%) Formulation

Version      Revision Date:      SDS Number:      Date of last issue: 24.02.2025  
4.0      14.04.2025      10225284-00010      Date of first issue: 12.11.2021

If not otherwise specified: Dispose of as unused product.

## SECTION 14: Transport information

#### 14.1 UN number or ID number

|             |   |         |
|-------------|---|---------|
| <b>ADN</b>  | : | UN 2810 |
| <b>ADR</b>  | : | UN 2810 |
| <b>RID</b>  | : | UN 2810 |
| <b>IMDG</b> | : | UN 2810 |
| <b>IATA</b> | : | UN 2810 |

## 14.2 UN proper shipping name

|             |   |   |
|-------------|---|---|
| <b>ADN</b>  | : | TOXIC LIQUID, ORGANIC, N.O.S.<br>(Flumethrin) |
| <b>ADR</b>  | : | TOXIC LIQUID, ORGANIC, N.O.S.<br>(Flumethrin) |
| <b>RID</b>  | : | TOXIC LIQUID, ORGANIC, N.O.S.<br>(Flumethrin) |
| <b>IMDG</b> | : | TOXIC LIQUID, ORGANIC, N.O.S.<br>(Flumethrin) |
| <b>IATA</b> | : | Toxic liquid, organic, n.o.s.<br>(Flumethrin) |

### 14.3 Transport hazard class(es)

|             | Class | Subsidiary risks |
|-------------|-------|------------------|
| <b>ADN</b>  | :     | 6.1              |
| <b>ADR</b>  | :     | 6.1              |
| <b>RID</b>  | :     | 6.1              |
| <b>IMDG</b> | :     | 6.1              |
| <b>IATA</b> | :     | 6.1              |

## 14.4 Packing group

**ADN**  
Packing group : II  
Classification Code : T1  
Hazard Identification Number : 60  
Labels : 6.1

**ADR**  
Packing group : II  
Classification Code : T1  
Hazard Identification Number : 60  
Labels : 6 1

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Flumethrin (2%) Formulation

|         |                |                |                                 |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number:    | Date of last issue: 24.02.2025  |
| 4.0     | 14.04.2025     | 10225284-00010 | Date of first issue: 12.11.2021 |

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Tunnel restriction code : (D/E)

### RID

Packing group : II  
Classification Code : T1  
Hazard Identification Number : 60  
Labels : 6.1

### IMDG

Packing group : II  
Labels : 6.1  
EmS Code : F-A, S-A

### IATA (Cargo)

Packing instruction (cargo aircraft) : 662  
Packing instruction (LQ) : Y641  
Packing group : II  
Labels : Toxic

### IATA (Passenger)

Packing instruction (passenger aircraft) : 654  
Packing instruction (LQ) : Y641  
Packing group : II  
Labels : Toxic

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : yes

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, : Conditions of restriction for the following entries should be considered:

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Flumethrin (2%) Formulation

Version  
4.0

Revision Date:  
14.04.2025

SDS Number:  
10225284-00010

Date of last issue: 24.02.2025  
Date of first issue: 12.11.2021

mixtures and articles (Annex XVII)

Number on list 3

Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).  
Regulation (EU) No 2024/590 on substances that deplete the ozone layer  
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)  
Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals  
REACH - List of substances subject to authorisation (Annex XIV)  
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the conditions in corresponding Regulation to determine whether an entry is applicable to the placing on the market or not.

: Not applicable  
: Not applicable

|    |                       | Quantity 1 | Quantity 2 |
|----|-----------------------|------------|------------|
| H2 | ACUTE TOXIC           | 50 t       | 200 t      |
| E2 | ENVIRONMENTAL HAZARDS | 200 t      | 500 t      |

### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### The components of this product are reported in the following inventories:

|       |                  |
|-------|------------------|
| AICS  | : not determined |
| DSL   | : not determined |
| IECSC | : not determined |

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



## Flumethrin (2%) Formulation

Version Revision Date: SDS Number: Date of last issue: 24.02.2025  
4.0 14.04.2025 10225284-00010 Date of first issue: 12.11.2021

## SECTION 16: Other information

Other information : Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

## Full text of H-Statements

H226 : Flammable liquid and vapour.  
H300 : Fatal if swallowed.  
H304 : May be fatal if swallowed and enters airways.  
H310 : Fatal in contact with skin.  
H312 : Harmful in contact with skin.  
H315 : Causes skin irritation.  
H319 : Causes serious eye irritation.  
H332 : Harmful if inhaled.  
H335 : May cause respiratory irritation.  
H360D : May damage the unborn child.  
H370 : Causes damage to organs if swallowed.  
H372 : Causes damage to organs through prolonged or repeated exposure if swallowed.  
H373 : May cause damage to organs through prolonged or repeated exposure.  
H410 : Very toxic to aquatic life with long lasting effects.  
H412 : Harmful to aquatic life with long lasting effects.  
H413 : May cause long lasting harmful effects to aquatic life.

## Full text of other abbreviations

|                               |   |
|-------------------------------|---|
| Acute Tox.                    | : Acute toxicity  |
| Aquatic Chronic               | : Long-term (chronic) aquatic hazard  |
| Asp. Tox.                     | : Aspiration hazard   |
| Eye Irrit.                    | : Eye irritation  |
| Flam. Liq.                    | : Flammable liquids   |
| Repr.                         | : Reproductive toxicity   |
| Skin Irrit.                   | : Skin irritation   |
| STOT RE                       | : Specific target organ toxicity - repeated exposure  |
| STOT SE                       | : Specific target organ toxicity - single exposure  |
| 2000/39/EC                    | : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values            |
| IE OEL                        | : Ireland. List of Chemical Agents and Carcinogens with Occupational Exposure Limit Values - Code of Practice, Schedule 1 and 2 |
| 2000/39/EC / TWA              | : Limit Value - eight hours   |
| 2000/39/EC / STEL             | : Short term exposure limit   |
| IE OEL / OELV - 8 hrs (TWA)   | : Occupational exposure limit value (8-hour reference period)   |
| IE OEL / OELV - 15 min (STEL) | : Occupational exposure limit value (15-minute reference period)  |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Flumethrin (2%) Formulation

Version  
4.0

Revision Date:  
14.04.2025

SDS Number:  
10225284-00010

Date of last issue: 24.02.2025  
Date of first issue: 12.11.2021

of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

### Classification of the mixture:

|                   |       |                    |
|-------------------|-------|--------------------|
| Acute Tox. 3      | H301  | Calculation method |
| Acute Tox. 2      | H310  | Calculation method |
| Skin Irrit. 2     | H315  | Calculation method |
| Eye Irrit. 2      | H319  | Calculation method |
| Repr. 1B          | H360D | Calculation method |
| STOT SE 2         | H371  | Calculation method |
| STOT RE 2         | H373  | Calculation method |
| Asp. Tox. 1       | H304  | Calculation method |
| Aquatic Chronic 2 | H411  | Calculation method |

### Classification procedure:

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Flumethrin (2%) Formulation

Version  
4.0

Revision Date:  
14.04.2025

SDS Number:  
10225284-00010

Date of last issue: 24.02.2025  
Date of first issue: 12.11.2021

---

considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

IE / EN