



**SPIRIFEN 10 EC**

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**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 Product identifier:** SPIRIFEN 10 EC
- Other means of identification:**  
Not relevant
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses (Professional users): Insecticide for agricultural use  
For Professional users only.  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**  
LÉRIDA UNIÓN QUÍMICA, S.A. (LUQSA)  
Afueras, s/n  
25173 Sudanel - Lleida - España  
Phone: 973258256  
info@luqsa.es  
www.luqsa.com
- 1.4 Emergency telephone number:** +34 973 258 256 (Solo disponible en horario de oficina; Lunes-Viernes; 09:00-18:00h; Horario de oficina agosto: Lunes-Viernes; 07:00-15:00h)

**SECTION 2: HAZARDS IDENTIFICATION**

- 2.1 Classification of the substance or mixture:**
- CLP Regulation (EC) No 1272/2008:**  
Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.
- Aquatic Acute 1: Hazardous to the aquatic environment, acute hazard, Category 1, H400  
Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard, Category 1, H410  
Asp. Tox. 1: Aspiration hazard, Category 1, H304  
Eye Dam. 1: Serious eye damage, Category 1, H318  
Skin Irrit. 2: Skin irritation, Category 2, H315  
Skin Sens. 1: Sensitisation, skin, Category 1, H317

**2.2 Label elements:**

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

Danger



**Hazard statements:**

- H304 - May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H318 - Causes serious eye damage.  
H410 - Very toxic to aquatic life with long lasting effects.

**Precautionary statements:**

- P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264: Wash thoroughly after handling.  
P273: Avoid release to the environment.  
P280: Wear gloves/protective clothing/eye/face/ear protection...  
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P302+P352: IF ON SKIN: Wash with plenty of water.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P331: Do NOT induce vomiting.  
P391: Collect spillage.  
P501: Dispose of contents/ container in accordance with local/regional/national/international regulation.

- CONTINUED ON NEXT PAGE -



**SPIRIFEN 10 EC**

Printing: 31/03/2026

Date of compilation: 20/11/2025

Version: 1

**SECTION 2: HAZARDS IDENTIFICATION (continued)**

**Supplementary information:**

EUH401: To avoid risks to human health and the environment, comply with the instructions for use.

SP1: Do not contaminate water with the product or its container.

**2.3 Other hazards:**

Product does not meet PBT/vPvB criteria

Endocrine-disrupting properties: The product does not meet the criteria.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substance:**

Not relevant

**3.2 Mixture:**

**Chemical description:** Biocide/s

**Components:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification		Concentration
CAS: 186817-80-1 EC: 606-097-1 Index: Not relevant REACH: 01-2119516238-41-XXXX	Propanoic acid, 2-hydroxy-, 2-ethylhexyl ester, (2S) <sup>(1)</sup>	Self-classified	25 - <50%
Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning		
CAS: 64742-47-8 EC: 265-149-8 Index: 649-422-00-2 REACH: 01-2119484819-18-XXXX	Distillates (petroleum), hydrotreated light <sup>(1)</sup>	ATP CLP00	25 - <50%
Regulation 1272/2008	Asp. Tox. 1: H304 - Danger		
CAS: 95737-68-1 EC: 429-800-1 Index: 613-303-00-3 REACH: 01-0000017608-63-XXXX	2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine <sup>(1)</sup>	ATP ATP01	10 - <25%
Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning		
CAS: 26264-06-2 EC: 247-557-8 Index: Not relevant REACH: 01-2120122335-68-XXXX	Calcium dodecylbenzenesulphonate <sup>(1)</sup>	Self-classified	2.5 - <10%
Regulation 1272/2008	Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger		
CAS: 78-83-1 EC: 201-148-0 Index: 603-108-00-1 REACH: 01-2119484609-23-XXXX	2-methylpropan-1-ol <sup>(1)</sup>	ATP CLP00	1 - <2.5%
Regulation 1272/2008	Eye Dam. 1: H318; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT SE 3: H335; STOT SE 3: H336 - Danger		

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures:**

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

**By inhalation:**

Remove the affected person from the area of exposure, provide them with fresh air, and keep them at rest. In severe cases such as cardiorespiratory arrest, administer artificial respiration techniques if properly trained (CPR, oxygen provision, etc.) and seek immediate medical assistance.

**By skin contact:**

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

**By eye contact:**

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

- CONTINUED ON NEXT PAGE -



**SPIRIFEN 10 EC**

Printing: 31/03/2026

Date of compilation: 20/11/2025

Version: 1

**SECTION 4: FIRST AID MEASURES (continued)**

**By ingestion/aspiration:**

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

**4.2 Most important symptoms and effects, both acute and delayed:**

Acute and delayed effects are indicated in sections 2 and 11.

**4.3 Indication of any immediate medical attention and special treatment needed:**

Not relevant

**SECTION 5: FIREFIGHTING MEASURES**

**5.1 Extinguishing media:**

**Suitable extinguishing media:**

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

**Unsuitable extinguishing media:**

Non-applicable

**5.2 Special hazards arising from the substance or mixture:**

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

**5.3 Advice for firefighters:**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EEC.

**Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures:**

**For non-emergency personnel:**

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

**For emergency responders:**

Wear protective equipment. Keep unprotected persons away. See section 8.

**6.2 Environmental precautions:**

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

**6.3 Methods and material for containment and cleaning up:**

It is recommended:

- CONTINUED ON NEXT PAGE -



**SPIRIFEN 10 EC**

Printing: 31/03/2026      Date of compilation: 20/11/2025      Version: 1

**SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)**

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.

Spillages in water or sea:

Small spillages:

Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.

Large spillages:

If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

**6.4 Reference to other sections:**

See sections 8 and 13.

**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling:**

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

**7.2 Conditions for safe storage, including any incompatibilities:**

A.- Specific storage requirements

Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

Maximum time: 24 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

**7.3 Specific end use(s):**

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters:**

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

There are no applicable occupational exposure limits for the substances contained in the product

**DNEL (Workers):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Propanoic acid, 2-hydroxy-, 2-ethylhexyl ester, (2S)- CAS: 186817-80-1 EC: 606-097-1	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	4,7 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	16,48 mg/m <sup>3</sup>	Not relevant

- CONTINUED ON NEXT PAGE -



**SPIRIFEN 10 EC**

Printing: 31/03/2026      Date of compilation: 20/11/2025      Version: 1

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Calcium dodecylbenzenesulphonate CAS: 26264-06-2 EC: 247-557-8	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	80 mg/kg	Not relevant	57,2 mg/kg	Not relevant
	Inhalation	52 mg/m <sup>3</sup>	52 mg/m <sup>3</sup>	52 mg/m <sup>3</sup>	52 mg/m <sup>3</sup>
2-methylpropan-1-ol CAS: 78-83-1 EC: 201-148-0	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
	Inhalation	Not relevant	Not relevant	Not relevant	310 mg/m <sup>3</sup>

**DNEL (General population):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Propanoic acid, 2-hydroxy-, 2-ethylhexyl ester, (2S)- CAS: 186817-80-1 EC: 606-097-1	Oral	Not relevant	Not relevant	2,3 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	2,3 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	4,04 mg/m <sup>3</sup>	Not relevant
Calcium dodecylbenzenesulphonate CAS: 26264-06-2 EC: 247-557-8	Oral	13 mg/kg	Not relevant	13 mg/kg	Not relevant
	Dermal	40 mg/kg	Not relevant	28,6 mg/kg	Not relevant
	Inhalation	26 mg/m <sup>3</sup>	26 mg/m <sup>3</sup>	26 mg/m <sup>3</sup>	26 mg/m <sup>3</sup>
2-methylpropan-1-ol CAS: 78-83-1 EC: 201-148-0	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
	Inhalation	Not relevant	Not relevant	Not relevant	55 mg/m <sup>3</sup>

**PNEC:**

Identification				
Propanoic acid, 2-hydroxy-, 2-ethylhexyl ester, (2S)- CAS: 186817-80-1 EC: 606-097-1	STP	Not relevant	Fresh water	0,186 mg/L
	Soil	1,25 mg/kg	Marine water	0,0186 mg/L
	Intermittent	0,21 mg/L	Sediment (Fresh water)	6,81 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,681 mg/kg
Calcium dodecylbenzenesulphonate CAS: 26264-06-2 EC: 247-557-8	STP	50 mg/L	Fresh water	0,28 mg/L
	Soil	25 mg/kg	Marine water	0,458 mg/L
	Intermittent	0,654 mg/L	Sediment (Fresh water)	27,5 mg/kg
	Oral	0,02 g/kg	Sediment (Marine water)	2,75 mg/kg
2-methylpropan-1-ol CAS: 78-83-1 EC: 201-148-0	STP	10 mg/L	Fresh water	0,4 mg/L
	Soil	0,076 mg/kg	Marine water	0,04 mg/L
	Intermittent	11 mg/L	Sediment (Fresh water)	1,56 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,156 mg/kg

**8.2 Exposure controls:**

**A.- Individual protection measures, such as personal protective equipment**

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

**B.- Respiratory protection**

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Filter mask for gases and vapours (Filter type: A)		EN 405:2001+A1:2009	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

**C.- Specific protection for the hands**

- CONTINUED ON NEXT PAGE -





**SPIRIFEN 10 EC**

Printing: 31/03/2026

Date of compilation: 20/11/2025

Version: 1

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)**

Appearance:	Not relevant *
Colour:	<span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 15px; height: 15px; vertical-align: middle;"></span> Yellow
Odour:	Aromatic
Odour threshold:	Not relevant *
<b>Volatility:</b>	
Boiling point at atmospheric pressure:	225 °C
Vapour pressure at 20 °C:	Not relevant *
Vapour pressure at 50 °C:	935,21 Pa (0,94 kPa)
Evaporation rate at 20 °C:	Not relevant *
<b>Product description:</b>	
Density at 20 °C:	900 - 950 kg/m <sup>3</sup>
Relative density at 20 °C:	Not relevant *
Dynamic viscosity at 20 °C:	11,57 mPa·s
Kinematic viscosity at 20 °C:	Not relevant *
Kinematic viscosity at 40 °C:	<=20,5 mm <sup>2</sup> /s
Concentration:	Not relevant *
pH:	4,5 - 5,5 (at 1 %)
Vapour density at 20 °C:	Not relevant *
Partition coefficient n-octanol/water 20 °C:	Not relevant *
Solubility in water at 20 °C:	Not relevant *
Solubility properties:	Not relevant *
Decomposition temperature:	Not relevant *
Melting point/freezing point:	Not relevant *
<b>Flammability:</b>	
Flash Point:	66 °C
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	260 °C
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *
<b>Particle characteristics:</b>	
Median equivalent diameter:	Not relevant *
<b>9.2 Other information:</b>	
<b>Information with regard to physical hazard classes:</b>	
Explosive properties:	Not relevant *
Oxidising properties:	Not relevant *
Corrosive to metals:	Not relevant *
Heat of combustion:	Not relevant *
Aerosols-total percentage (by mass) of flammable components:	Not relevant *
<b>Other safety characteristics:</b>	
Surface tension at 20 °C:	Not relevant *
Refraction index:	Not relevant *

\*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -



**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

**10.2 Chemical stability:**

Chemically stable under the indicated conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Precaution	Precaution	Not applicable

**10.5 Incompatible materials:**

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

**10.6 Hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

**SECTION 11: TOXICOLOGICAL INFORMATION**

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

**Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.  
IARC: Distillates (petroleum), hydrotreated light (3: Not classifiable as to its carcinogenicity to humans)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

- CONTINUED ON NEXT PAGE -



## SECTION 11: TOXICOLOGICAL INFORMATION (continued)

### G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

### H- Aspiration hazard:

May be fatal if swallowed and enters airways.

### Other information:

Not relevant

### Product-specific toxicological information:

Acute toxicity		Genus
LD50 oral	>2000 mg/kg	Rat
LD50 dermal	>2000 mg/kg	Rat

### Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
2-methylpropan-1-ol CAS: 78-83-1 EC: 201-148-0	LD50 oral	3350 mg/kg	Rat
	LD50 dermal	2460 mg/kg	Rabbit
	LC50 inhalation vapour	24,6 mg/L (4 h)	Rat

### 11.2 Information on other hazards:

#### Endocrine disrupting properties

Endocrine-disrupting properties: The product does not meet the criteria.

#### Other information

Not relevant

## SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Very toxic to aquatic life with long lasting effects.

### 12.1 Toxicity:

#### Acute toxicity:

Identification	Concentration		Species	Genus
Propanoic acid, 2-hydroxy-, 2-ethylhexyl ester, (2S)- CAS: 186817-80-1 EC: 606-097-1	LC50	32 mg/L (96 h)	Pimephales promelas	Fish
	EC50	83 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	11 mg/L (96 h)	Selenastrum capricornutum	Algae
2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine CAS: 95737-68-1 EC: 429-800-1	LC50	0,45 mg/L (96 h)	Cyprinus carpio	Fish
	EC50	Not relevant		
	EC50	Not relevant		
2-methylpropan-1-ol CAS: 78-83-1 EC: 201-148-0	LC50	2030 mg/L (96 h)	Carassius auratus	Fish
	EC50	1439 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	1250 mg/L (48 h)	Scenedesmus subspicatus	Algae

#### Chronic toxicity:

Identification	Concentration		Species	Genus
Propanoic acid, 2-hydroxy-, 2-ethylhexyl ester, (2S)- CAS: 186817-80-1 EC: 606-097-1	NOEC	9,61 mg/L	Danio rerio	Fish
	NOEC	2,4 mg/L	Daphnia magna	Crustacean
2-methylpropan-1-ol CAS: 78-83-1 EC: 201-148-0	NOEC	Not relevant		
	NOEC	20 mg/L	Daphnia magna	Crustacean

### 12.2 Persistence and degradability:

#### Substance-specific information:

- CONTINUED ON NEXT PAGE -



**SPIRIFEN 10 EC**

Printing: 31/03/2026      Date of compilation: 20/11/2025      Version: 1

**SECTION 12: ECOLOGICAL INFORMATION (continued)**

Identification	Degradability		Biodegradability	
	Propanoic acid, 2-hydroxy-, 2-ethylhexyl ester, (2S)- CAS: 186817-80-1 EC: 606-097-1	BOD5	0,45 g O2/g	Concentration
COD		0,85 g O2/g	Period	28 days
BOD5/COD		0,53	% Biodegradable	86 %
2-methylpropan-1-ol CAS: 78-83-1 EC: 201-148-0	BOD5	0,4 g O2/g	Concentration	100 mg/L
	COD	2,41 g O2/g	Period	14 days
	BOD5/COD	0,17	% Biodegradable	90 %

**12.3 Bioaccumulative potential:**

**Substance-specific information:**

Identification	Bioaccumulation potential	
	Distillates (petroleum), hydrotreated light CAS: 64742-47-8 EC: 265-149-8	BCF
Pow Log		3.3
Potential		High
2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine CAS: 95737-68-1 EC: 429-800-1	BCF	3700
	Pow Log	5.6
	Potential	Very High
2-methylpropan-1-ol CAS: 78-83-1 EC: 201-148-0	BCF	3
	Pow Log	0.76
	Potential	Low

**12.4 Mobility in soil:**

Identification	Absorption/desorption		Volatility	
	Propanoic acid, 2-hydroxy-, 2-ethylhexyl ester, (2S)- CAS: 186817-80-1 EC: 606-097-1	Koc	330	Henry
Conclusion		Low	Dry soil	Yes
Surface tension		3,7E-2 N/m (20 °C)	Moist soil	Yes
2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine CAS: 95737-68-1 EC: 429-800-1	Koc	405000	Henry	6,383E-5 Pa·m <sup>3</sup> /mol
	Conclusion	Immobile	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant
2-methylpropan-1-ol CAS: 78-83-1 EC: 201-148-0	Koc	Not relevant	Henry	Not relevant
	Conclusion	Not relevant	Dry soil	Not relevant
	Surface tension	2,378E-2 N/m (25 °C)	Moist soil	Not relevant

**12.5 Results of PBT and vPvB assessment:**

Product does not meet PBT/vPvB criteria

**12.6 Endocrine disrupting properties:**

Endocrine-disrupting properties: The product does not meet the criteria.

**12.7 Other adverse effects:**

Not described

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods:**

Code	Description	Waste class (Regulation (EU) No 1357/2014)
02 01 08*	agrochemical waste containing hazardous substances	Hazardous

**Type of waste (Regulation (EU) No 1357/2014):**

HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP14 Ecotoxic, HP13 Sensitising, HP4 Irritant — skin irritation and eye damage

**Waste management (disposal and evaluation):**

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

- CONTINUED ON NEXT PAGE -



**SPIRIFEN 10 EC**

Printing: 31/03/2026

Date of compilation: 20/11/2025

Version: 1

**SECTION 13: DISPOSAL CONSIDERATIONS (continued)**

**Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

**SECTION 14: TRANSPORT INFORMATION**

**Transport of dangerous goods by land:**

With regard to ADR 2025 and RID 2025:



- 14.1 **UN number or ID number:** UN3082
- 14.2 **UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine)
- 14.3 **Transport hazard class(es):** 9  
**Labels:** 9
- 14.4 **Packing group:** III
- 14.5 **Environmental hazards:** Yes
- 14.6 **Special precautions for user**  
**Special regulations:** 274, 335, 375, 601, 650  
**Tunnel restriction code:** -  
**Physico-Chemical properties:** see section 9  
**Limited quantities:** 5 L
- 14.7 **Maritime transport in bulk according to IMO instruments:** Not relevant

**Transport of dangerous goods by sea:**

With regard to IMDG 42-24:



- 14.1 **UN number or ID number:** UN3082
- 14.2 **UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine)
- 14.3 **Transport hazard class(es):** 9  
**Labels:** 9
- 14.4 **Packing group:** III
- 14.5 **Marine pollutant:** Yes
- 14.6 **Special precautions for user**  
**Special regulations:** 375, 335, 274, 969  
**EmS Codes:** F-A, S-F  
**Physico-Chemical properties:** see section 9  
**Limited quantities:** 5 L  
**Segregation group:** Not relevant
- 14.7 **Maritime transport in bulk according to IMO instruments:** Not relevant

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2026:

- CONTINUED ON NEXT PAGE -



**SPIRIFEN 10 EC**

Printing: 31/03/2026

Date of compilation: 20/11/2025

Version: 1

**SECTION 14: TRANSPORT INFORMATION (continued)**



- 14.1 UN number or ID number:** UN3082
- 14.2 UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine)
- 14.3 Transport hazard class(es):** 9  
**Labels:** 9
- 14.4 Packing group:** III
- 14.5 Environmental hazards:** Yes
- 14.6 Special precautions for user**  
Physico-Chemical properties: see section 9
- 14.7 Maritime transport in bulk according to IMO instruments:** Not relevant

**SECTION 15: REGULATORY INFORMATION**

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

- Composition of the active ingredients (Regulation (EU) No 528/2012): 2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine (15.7%)
- Article 95, REGULATION (EU) No 528/2012: 2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine (95737-68-1) - PT: (18)
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EU) 2019/1021 on persistent organic pollutants: Not relevant
- Regulation (EU) No 2024/590, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

**Seveso III:**

Section	Description	Lower-tier requirements	Upper-tier requirements
E1	ENVIRONMENTAL HAZARDS	100,000	200,000

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):**

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

**Other legislation:**

The product could be affected by sectorial legislation

Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products

**15.2 Chemical safety assessment:**

The supplier has not carried out evaluation of chemical safety.

**SECTION 16: OTHER INFORMATION**

**Legislation related to safety data sheets:**

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

**Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:**

Not relevant

**Texts of the legislative phrases mentioned in section 2:**

- CONTINUED ON NEXT PAGE -



**SPIRIFEN 10 EC**

Printing: 31/03/2026

Date of compilation: 20/11/2025

Version: 1

**SECTION 16: OTHER INFORMATION (continued)**

H315: Causes skin irritation.  
H318: Causes serious eye damage.  
H317: May cause an allergic skin reaction.  
H304: May be fatal if swallowed and enters airways.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.

**Texts of the legislative phrases mentioned in section 3:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

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

Aquatic Acute 1: H400 - Very toxic to aquatic life.  
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.  
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.  
Eye Dam. 1: H318 - Causes serious eye damage.  
Eye Irrit. 2: H319 - Causes serious eye irritation.  
Flam. Liq. 3: H226 - Flammable liquid and vapour.  
Skin Irrit. 2: H315 - Causes skin irritation.  
Skin Sens. 1: H317 - May cause an allergic skin reaction.  
STOT SE 3: H335 - May cause respiratory irritation.  
STOT SE 3: H336 - May cause drowsiness or dizziness.

**Classification procedure:**

Skin Irrit. 2: Calculation method  
Eye Dam. 1: Calculation method  
Skin Sens. 1: Calculation method  
Asp. Tox. 1: Calculation method  
Aquatic Acute 1: Calculation method  
Aquatic Chronic 1: Calculation method

**Advice related to training:**

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**Principal bibliographical sources:**

<http://echa.europa.eu>  
<http://eur-lex.europa.eu>

**Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road  
IMDG: International maritime dangerous goods code  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organisation  
COD: Chemical Oxygen Demand  
BOD5: 5day biochemical oxygen demand  
BCF: Bioconcentration factor  
LD50: Lethal Dose 50  
LC50: Lethal Concentration 50  
EC50: Effective concentration 50  
LogPOW: Octanolwater partition coefficient  
Koc: Partition coefficient of organic carbon  
UFI: unique formula identifier  
IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -