

# Safety data sheet

Page: 1/20

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Date / Revised: 08.09.2025

Version: 10.0

Date / Previous version: 29.03.2023

Previous version: 9.0

Product: **Fastac® SC**

(ID no. 30262577/SDS\_CPA\_EU/EN)

Date of print 02.12.2025

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

### 1.1. Product identifier

**Fastac® SC**

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

Relevant identified uses: crop protection product, insecticide

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

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Crop Protection

Telephone: +49 621 60-27777

E-mail address: Produktinformation-Pflanzenschutz@basf.com

### 1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

## SECTION 2: Hazards Identification

### 2.1. Classification of the substance or mixture

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

According to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4 (oral)

H302 Harmful if swallowed.

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Aquatic Acute 1

H400 Very toxic to aquatic life.

Aquatic Chronic 1

H410 Very toxic to aquatic life with long lasting effects.

For the classifications not written out in full in this section the full text can be found in section 16.

## 2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Globally Harmonized System, EU (GHS)

Pictogram:



Signal Word:

Warning

Hazard Statement:

H302

Harmful if swallowed.

H400

Very toxic to aquatic life.

H410

Very toxic to aquatic life with long lasting effects.

EUH401

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

Precautionary Statement:

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P103

Read carefully and follow all instructions.

Precautionary Statements (Prevention):

P270

Do not eat, drink or smoke when using this product.

P264

Wash contaminated body parts thoroughly after handling.

P262

Do not get in eyes, on skin, or on clothing.

Precautionary Statements (Response):

P301 + P312

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330

Rinse mouth.

P391

Collect spillage.

Precautionary Statements (Disposal):

P501

Dispose of contents and container to hazardous or special waste collection point.

Labeling of special preparations (GHS):

May cause paraesthesia. Contains:  $\alpha$ -cypermethrin (ISO); racemate comprising (R)- $\alpha$ -cyano-3-phenoxybenzyl (1S,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate; (S)- $\alpha$ -cyano-3-phenoxybenzyl(1R, 3R)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate  
EUH208: May produce an allergic reaction. Contains: 1,2-benzisothiazol-3(2H)-one

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Hazard determining component(s) for labelling:  $\alpha$ -cypermethrin (ISO); racemate comprising (R)- $\alpha$ -cyano-3-phenoxybenzyl (1S,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate; (S)- $\alpha$ -cyano-3-phenoxybenzyl(1R, 3R)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

### 2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Chemical nature

crop protection product, insecticide, suspension concentrate (SC)

Regulatory relevant ingredients

$\alpha$ -cypermethrin (ISO); racemate comprising (R)- $\alpha$ -cyano-3-phenoxybenzyl (1S,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate; (S)- $\alpha$ -cyano-3-phenoxybenzyl(1R, 3R)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

Content (W/W): 9.85 % Acute Tox. 4 (Inhalation - dust)

CAS Number: 67375-30-8 Acute Tox. 3 (oral)

EC-Number: 257-842-9 STOT SE 3 (irr. to respiratory syst.)

INDEX-Number: 607-422-00-X STOT RE (Nervous system) 2

Aquatic Acute 1

Substance with EU occupational Aquatic Chronic 1

exposure limit M-factor acute: 1000

M-factor chronic: 1000

H301, H332, H335, H373, H400, H410

Distillates (petroleum), hydrotreated heavy paraffinic

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Content (W/W): < 15 %  
CAS Number: 64742-54-7  
EC-Number: 265-157-1  
REACH registration number: 01-2119484627-25

Asp. Tox. 1  
H304

Substance with EU occupational exposure limit

Poly(oxy-1,2-ethanediyl), .alpha.-[2,4,6-tris(1,1-dimethylethyl)phenyl]-.omega.-hydroxy-

Content (W/W): < 5 %  
CAS Number: 9046-09-7

Acute Tox. 4 (oral)  
Eye Dam./Irrit. 1  
Aquatic Chronic 2  
H318, H302, H411

Alcohols, C13-15, branched and linear, ethoxylated (>1 <2.5 mol EO)

Content (W/W): < 0.5 %  
CAS Number: 157627-86-6  
EC-Number: 500-337-8

Aquatic Acute 1  
Aquatic Chronic 3  
M-factor acute: 1  
H412, H400

bronopol (INN)

Content (W/W): < 0.05 %  
CAS Number: 52-51-7  
EC-Number: 200-143-0  
REACH registration number: 01-2119980938-15  
INDEX-Number: 603-085-00-8

Acute Tox. 3 (Inhalation - dust)  
Acute Tox. 3 (oral)  
Acute Tox. 4 (dermal)  
Skin Irrit. 2  
Eye Dam. 1  
STOT SE 3 (irr. to respiratory syst.)  
Aquatic Acute 1  
Aquatic Chronic 1  
M-factor acute: 10  
M-factor chronic: 10  
H318, H315, H312, H335, H301 + H331, H400, H410  
Differing classification according to current knowledge and the criteria given in Annex I of Regulation (EC) No. 1272/2008  
Aquatic Chronic 1  
Aquatic Acute 1  
M-factor acute: 100  
M-factor chronic: 10

1,2-benzisothiazol-3(2H)-one

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Content (W/W): < 0.036 %  
CAS Number: 2634-33-5  
EC-Number: 220-120-9  
REACH registration number: 01-2120761540-60  
INDEX-Number: 613-088-00-6

Acute Tox. 2 (Inhalation - dust)  
Acute Tox. 4 (oral)  
Skin Irrit. 2  
Eye Dam. 1  
Skin Sens. 1A  
Aquatic Acute 1  
Aquatic Chronic 1  
M-factor acute: 1  
M-factor chronic: 1  
H318, H315, H330, H302, H317, H400, H410

Specific concentration limit:

Skin Sens. 1A: >= 0.036 %

Acute toxicity estimate:

oral: 450 mg/kg  
Inhalation: 0.21 mg/l

Propane-1,2-diol

Content (W/W): < 10 %  
CAS Number: 57-55-6  
EC-Number: 200-338-0  
REACH registration number: 01-2119456809-23

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

## SECTION 4: First-Aid Measures

### 4.1. Description of first aid measures

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

Hazards: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. (Further) symptoms and / or effects are not known so far

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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### **SECTION 5: Fire-Fighting Measures**

#### **5.1. Extinguishing media**

Suitable extinguishing media:  
water spray, carbon dioxide, foam, dry powder

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

Endangering substances: Carbon monoxide, Carbon dioxide, hydrogen chloride, Hydrogen bromide, nitrogen oxides, halogenated compounds, silica compounds, Phosphorus compounds, sulfur oxides, cyanides

Advice: The substances/groups of substances mentioned can be released in case of fire.

#### **5.3. Advice for fire-fighters**

Special protective equipment:  
Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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### **SECTION 6: Accidental Release Measures**

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

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Do not breathe vapour/spray.

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## 6.2. Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

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

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

## 6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

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# SECTION 7: Handling and Storage

## 7.1. Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

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

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Storage stability:

Storage duration: 36 Months

Protect from temperatures below: -5 °C

The product can crystallize below the limit temperature.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

## 7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

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## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control parameters

Components with occupational exposure limits

57-55-6: Propane-1,2-diol

67375-30-8:  $\alpha$ -cypermethrin (ISO)

TWA value 0.11 mg/m<sup>3</sup> (BASF recomm. occupational exposure limit)

64742-54-7: Distillates (petroleum), hydrotreated heavy paraffinic

### 8.2. Exposure controls

#### Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

Hand protection:

Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

#### General safety and hygiene measures

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

State of matter: liquid

Form: liquid

Colour: white

Odour: aliphatic

Odour threshold:

Not determined due to potential health hazard by inhalation.

crystallization temperature: approx. -5.3 °C



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Boiling point:	approx. 100 °C	
Flammability:	Information applies to the solvent. not flammable	
Lower explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.	
Upper explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.	
Flash point:	Non-flammable.	
Auto-ignition temperature:	394 °C	
Thermal decomposition:	95 °C, 20 kJ/kg (DSC (OECD 113)) 195 °C, 50 kJ/kg (DSC (OECD 113)) 295 °C, 350 kJ/kg (DSC (OECD 113)) Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.	
SADT:	> 75 °C	
pH value:	approx. 5 - 7 (1 g/l, 20 °C)	
Viscosity, kinematic:	approx. 55.9 mm <sup>2</sup> /s (40 °C)	(OECD Guideline 114)
Viscosity, dynamic:	approx. 125 mPa.s (20 °C, 100 1/s)	(OECD Guideline 114)
Thixotropy:	not thixotropic	
Solubility in water:	dispersible	
Partitioning coefficient n-octanol/water (log K <sub>ow</sub> ):	not applicable for mixtures	
Vapour pressure:	approx. 23 hPa (20 °C)	
Density:	Information applies to the solvent. approx. 1.02 g/cm <sup>3</sup> (20 °C)	(OECD Guideline 109)
Relative vapour density (air):	not determined	

#### Particle characteristics

Particle size distribution:	The substance / product is marketed or used in a non solid or granular form. -
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## 9.2. Other information

### Information with regard to physical hazard classes

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#### Explosives

Explosion hazard: not explosive

#### Oxidizing properties

Fire promoting properties: not fire-propagating

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## **SECTION 10: Stability and Reactivity**

### **10.1. Reactivity**

No hazardous reactions if stored and handled as prescribed/indicated.

### **10.2. Chemical stability**

The product is stable if stored and handled as prescribed/indicated.

### **10.3. Possibility of hazardous reactions**

No hazardous reactions if stored and handled as prescribed/indicated.

### **10.4. Conditions to avoid**

See SDS section 7 - Handling and storage.

### **10.5. Incompatible materials**

Substances to avoid:

strong bases, strong acids, strong oxidizing agents

### **10.6. Hazardous decomposition products**

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

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## **SECTION 11: Toxicological Information**

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

Acute toxicity

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

LD50 rat (oral): 1,768 mg/kg (OECD Guideline 401)

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LC50 rat (by inhalation): > 4.6 mg/l 4 h (OECD Guideline 403)

Highest concentration technically achievable. No mortality was observed. An aerosol was tested.

LD50 rat (dermal): > 5,000 mg/kg (OECD Guideline 402)

#### Irritation

Assessment of irritating effects:

Skin contact causes slight irritation. Not irritating to the eyes. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

Serious eye damage/irritation

rabbit: non-irritant (OECD Guideline 405)

*Information on:*  $\alpha$ -cypermethrin (ISO); racemate comprising (R)- $\alpha$ -cyano-3-phenoxybenzyl (1S,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate; (S)- $\alpha$ -cyano-3-phenoxybenzyl(1R, 3R)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

*Experimental/calculated data:*

*Skin corrosion/irritation*

| *rabbit: Slightly irritating. (OECD Guideline 404)*

#### Respiratory/Skin sensitization

Assessment of sensitization:

No sensitizing effect. The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on:*  $\alpha$ -cypermethrin (ISO); racemate comprising (R)- $\alpha$ -cyano-3-phenoxybenzyl (1S,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate; (S)- $\alpha$ -cyano-3-phenoxybenzyl(1R, 3R)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

*Experimental/calculated data:*

*Guinea pig maximization test guinea pig: Non-sensitizing. (OECD Guideline 406)*

#### Germ cell mutagenicity

Assessment of mutagenicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: bronopol (INN)*

*Assessment of mutagenicity:*

*The substance was not mutagenic in bacteria. The substance was mutagenic in various cell culture test systems; however, these results could not be confirmed in tests with mammals.*

#### Carcinogenicity

Assessment of carcinogenicity:

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(ID no. 30262577/SDS\_CPA\_EU/EN)

Date of print 02.12.2025

The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

#### Reproductive toxicity

Assessment of reproduction toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

#### Developmental toxicity

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

#### Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

#### Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: α-cypermethrin (ISO); racemate comprising (R)-α-cyano-3-phenoxybenzyl (1S,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate; (S)-α-cyano-3-phenoxybenzyl(1R, 3R)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate*

*Assessment of repeated dose toxicity:*

*Repeated oral exposure may affect certain organs. Damages the peripheral nerve system.*

*Information on: bronopol (INN)*

*Assessment of repeated dose toxicity:*

*After repeated exposure the prominent effect is local irritation.*

#### Aspiration hazard

No aspiration hazard expected.

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Interactive effects

No data available.

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## 11.2. Information on other hazards

### Endocrine disrupting properties

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### Other information

Other relevant toxicity information

Misuse can be harmful to health.

## SECTION 12: Ecological Information

### 12.1. Toxicity

Assessment of aquatic toxicity:

Very toxic to aquatic life with long lasting effects.

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on:* α-cypermethrin (ISO); racemate comprising (R)-α-cyano-3-phenoxybenzyl (1S,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate; (S)-α-cyano-3-phenoxybenzyl(1R, 3R)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

*Toxicity to fish:*

LC50 (96 h) 0.00093 mg/l, *Pimephales promelas* (OPP 72-1 (EPA-Guideline), Flow through.)

*Information on:* α-cypermethrin (ISO); racemate comprising (R)-α-cyano-3-phenoxybenzyl (1S,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate; (S)-α-cyano-3-phenoxybenzyl(1R, 3R)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

*Aquatic invertebrates:*

EC50 (48 h) 12,6 ng/l, *Chironomus riparius*

*Information on:* α-cypermethrin (ISO); racemate comprising (R)-α-cyano-3-phenoxybenzyl (1S,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate; (S)-α-cyano-3-phenoxybenzyl(1R, 3R)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

*Aquatic plants:*

EC50 (7 d) > 0.00139 mg/l (growth rate), *Lemna gibba* (OECD Guideline 201)

No observed effect concentration (7 d) > 0.00139 mg/l (growth rate), *Lemna gibba* (OECD Guideline 221, static)

EC50 (72 h) > 0.027 mg/l (growth rate), *Anabaena flos-aquae* (OECD Guideline 201)

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Date / Revised: 08.09.2025

Version: 10.0

Date / Previous version: 29.03.2023

Previous version: 9.0

Product: **Fastac® SC**

(ID no. 30262577/SDS\_CPA\_EU/EN)

Date of print 02.12.2025

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*Information on:*  $\alpha$ -cypermethrin (ISO); racemate comprising (R)- $\alpha$ -cyano-3-phenoxybenzyl (1S,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate; (S)- $\alpha$ -cyano-3-phenoxybenzyl(1R, 3R)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

*Chronic toxicity to fish:*

*No observed effect concentration (34 d) 0,03  $\mu$ g/L, *Pimephales promelas* (OPP 72-4 (EPA-Guideline), Flow through.)*

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*Information on:*  $\alpha$ -cypermethrin (ISO); racemate comprising (R)- $\alpha$ -cyano-3-phenoxybenzyl (1S,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate; (S)- $\alpha$ -cyano-3-phenoxybenzyl(1R, 3R)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

*Chronic toxicity to aquatic invertebrates:*

*No observed effect concentration (21 d) 0,03  $\mu$ g/L, *Daphnia magna* (OPP 72-4 (EPA-Guideline), semistatic)*

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## 12.2. Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on:*  $\alpha$ -cypermethrin (ISO); racemate comprising (R)- $\alpha$ -cyano-3-phenoxybenzyl (1S,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate; (S)- $\alpha$ -cyano-3-phenoxybenzyl(1R, 3R)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

*Assessment biodegradation and elimination (H<sub>2</sub>O):*

*Not readily biodegradable (by OECD criteria).*

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## 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on:*  $\alpha$ -cypermethrin (ISO); racemate comprising (R)- $\alpha$ -cyano-3-phenoxybenzyl (1S,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate; (S)- $\alpha$ -cyano-3-phenoxybenzyl(1R, 3R)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

*Bioaccumulation potential:*

*Bioconcentration factor(BCF): 155 - 910 (73 d), *Cyprinus carpio* (OECD Guideline 305 C)*

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Date / Revised: 08.09.2025

Version: 10.0

Date / Previous version: 29.03.2023

Previous version: 9.0

Product: **Fastac® SC**

(ID no. 30262577/SDS\_CPA\_EU/EN)

Date of print 02.12.2025

## 12.4. Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on:*  $\alpha$ -cypermethrin (ISO); racemate comprising (R)- $\alpha$ -cyano-3-phenoxybenzyl (1S,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate; (S)- $\alpha$ -cyano-3-phenoxybenzyl(1R, 3R)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

*Assessment transport between environmental compartments:*

*Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.*

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## 12.5. Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

## 12.6. Endocrine disrupting properties

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## 12.7. Other adverse effects

The product does not contain substances that are listed in Regulation (EU) 2024/590 on substances that deplete the ozone layer.

### Results of PMT and vPvM assessment

The product does not contain a substance fulfilling the PMT criteria. The product does not contain a substance fulfilling the vPvM criteria.

### Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

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## SECTION 13: Disposal Considerations

### 13.1. Waste treatment methods

Must be sent to a suitable incineration plant, observing local regulations.

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Date / Revised: 08.09.2025

Version: 10.0

Date / Previous version: 29.03.2023

Previous version: 9.0

Product: **Fastac® SC**

(ID no. 30262577/SDS\_CPA\_EU/EN)

Date of print 02.12.2025

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

## SECTION 14: Transport Information

### Land transport

ADR

UN number or ID number: UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALPHA-CYPERMETHRIN, TRIBUTYL PHENOL POLYGLYCOL ETHER)

Transport hazard class(es): 9, EHSM

Packing group: III

Environmental hazards: yes

Special precautions for user: None known

RID

UN number or ID number: UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALPHA-CYPERMETHRIN, TRIBUTYL PHENOL POLYGLYCOL ETHER)

Transport hazard class(es): 9, EHSM

Packing group: III

Environmental hazards: yes

Special precautions for user: None known

### Inland waterway transport

ADN

UN number or ID number: UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALPHA-CYPERMETHRIN, TRIBUTYL PHENOL POLYGLYCOL ETHER)

Transport hazard class(es): 9, EHSM

Packing group: III

Environmental hazards: yes

Special precautions for user: None known



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Date / Revised: 08.09.2025

Version: 10.0

Date / Previous version: 29.03.2023

Previous version: 9.0

Product: **Fastac® SC**

(ID no. 30262577/SDS\_CPA\_EU/EN)

Date of print 02.12.2025

#### Transport in inland waterway vessel

Not evaluated

#### Sea transport

##### IMDG

UN number or ID number: UN 3082  
 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALPHA-CYPERMETHRIN, TRIBUTYL PHENOL POLYGLYCOL ETHER)

Transport hazard class(es): 9, EHSM  
 Packing group: III  
 Environmental hazards: yes  
 Marine pollutant: YES  
 Special precautions for user: EmS: F-A; S-F

#### Air transport

##### IATA/ICAO

UN number or ID number: UN 3082  
 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALPHA-CYPERMETHRIN, TRIBUTYL PHENOL POLYGLYCOL ETHER)

Transport hazard class(es): 9, EHSM  
 Packing group: III  
 Environmental hazards: yes  
 Special precautions for user: None known

#### **14.1. UN number or ID number**

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

#### **14.2. UN proper shipping name**

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

#### **14.3. Transport hazard class(es)**

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Date / Revised: 08.09.2025

Version: 10.0

Date / Previous version: 29.03.2023

Previous version: 9.0

Product: **Fastac® SC**

(ID no. 30262577/SDS\_CPA\_EU/EN)

Date of print 02.12.2025

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

#### **14.4. Packing group**

See corresponding entries for "Packing group" for the respective regulations in the tables above.

#### **14.5. Environmental hazards**

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

#### **14.6. Special precautions for user**

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

#### **14.7. Maritime transport in bulk according to IMO instruments**

Maritime transport in bulk is not intended.

#### **Further information**

Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 L or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2.10.2.7; IATA: A197; TDG: Special Provision 99(2); 49CFR: §171.4 (c) (2) and also the Special Provision 375 in Appendix B which is regulated in China "Regulations Concerning Road Transportation of Dangerous Goods Part 3: Index of dangerous goods name and transportation requirements" (JT/T 617.3)

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## **SECTION 15: Regulatory Information**

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

#### **Prohibitions, Restrictions and Authorizations**

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 75, 3

Restrictions of Regulation (EC) No 1907/2006, Annex XVII, do not apply for the intended use(s) of the product given in this SDS.

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):

List entry in regulation: E1

Classification applies for standard conditions of temperature and pressure.

To avoid risks to man and the environment, comply with the instructions for use.

### **15.2. Chemical Safety Assessment**

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

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Date / Revised: 08.09.2025

Version: 10.0

Date / Previous version: 29.03.2023

Previous version: 9.0

Product: **Fastac® SC**

(ID no. 30262577/SDS\_CPA\_EU/EN)

Date of print 02.12.2025

## SECTION 16: Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
STOT SE	Specific target organ toxicity — single exposure
STOT RE	Specific target organ toxicity — repeated exposure
Asp. Tox.	Aspiration hazard
Eye Dam./Irrit.	Serious eye damage/eye irritation
Skin Irrit.	Skin irritation
Eye Dam.	Serious eye damage
Skin Sens.	Skin sensitization
H302	Harmful if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.
H301	Toxic if swallowed.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs (Nervous system) through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H315	Causes skin irritation.
H312	Harmful in contact with skin.
H301 + H331	Toxic if swallowed or if inhaled.
H330	Fatal if inhaled.
H317	May cause an allergic skin reaction.

### Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population.

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Date of print 02.12.2025

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TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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