

Safety data sheet

Page: 1/12

BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 10.12.2010

Version: 3.0

Product: **FASTAC 100 EC**

310 11 I

(ID no. 30362347/SDS_CPA_EU/EN)

Date of print 17.02.2011

1. Identification of the substance/mixture and of the company/undertaking

Product identifier

FASTAC 100 EC

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

Relevant identified uses: crop protection product, insecticide

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

Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

2. Hazards Identification

Label elements

According to Directive 67/548/EEC or 1999/45/EC

EEC Directives

Hazard symbol(s)

BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 10.12.2010

Version: 3.0

Product: **FASTAC 100 EC**

310 11 I

(ID no. 30362347/SDS_CPA_EU/EN)

Date of print 17.02.2011

Xn	Harmful.
N	Dangerous for the environment.
R-phrases(s)	
R10	Flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R37	Irritating to respiratory system.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases(s)	
S2	Keep out of the reach of children.
S13	Keep away from food, drink and animal feeding stuffs.
S20/21	When using do not eat, drink or smoke.
S24	Avoid contact with skin.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S35	This material and its container must be disposed of in a safe way.
S37/39	Wear suitable gloves and eye/face protection.
S57	Use appropriate container to avoid environmental contamination.
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

May cause paraesthesia.

Hazard determining component(s) for labelling: Solvent naphtha (petroleum), light arom., ALPHA-CYPERMETHRIN

Classification of the substance or mixture

According to Directive 67/548/EEC or 1999/45/EC

Possible Hazards:

Flammable.

Harmful by inhalation, in contact with skin and if swallowed.

Irritating to respiratory system.

Risk of serious damage to eyes.

May cause sensitization by skin contact.

Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Harmful: may cause lung damage if swallowed.

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

May cause paraesthesia.

Other hazards

Assessment PBT / vPvB:

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

3. Composition/Information on Ingredients

Mixtures

Chemical nature

crop protection product, insecticide, emulsion concentrate (EC)

Hazardous ingredients

according to Directive 1999/45/EC

alpha-Cypermethrin

Content (W/W): 11 %
CAS Number: 67375-30-8
EC-Number: 257-842-9
Hazard symbol(s): T, N
R-phrases: 20, 25, 37/38, 48/22, 50/53

Solvent naphtha (petroleum), light arom.

Content (W/W): <= 85 %
CAS Number: 64742-95-6
EC-Number: 265-199-0
INDEX-Number: 649-356-00-4
Hazard symbol(s): Xn, N
R-phrases: 10, 37, 51/53, 65, 66, 67

wetting agent-preparation

Content (W/W): < 10 %
Hazard symbol(s): Xi
R-phrases: 10, 41, 37/38, 53

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

4. First-Aid Measures

Description of first aid measures

Avoid contact with the skin, eyes and clothing. Remove contaminated clothing. If difficulties occur: Obtain medical attention. Show container, label and/or safety data sheet to physician.

If inhaled:

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

On skin contact:

After contact with skin, wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

On contact with eyes:
Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:
Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention. Do not induce vomiting due to aspiration hazard.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

Indication of any immediate medical attention and special treatment needed

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

5. Fire-Fighting Measures

Extinguishing media

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

Special hazards arising from the substance or mixture

carbon monoxide, hydrogen chloride, nitrogen oxides, organochloric compounds
The substances/groups of substances mentioned can be released in case of fire.

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.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Remove contaminated clothes, undergarments and shoes immediately.

Environmental precautions

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

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.

Cleaning operations should be carried out only while wearing breathing apparatus. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be

BASF Safety data sheet according to Regulation (EC) No. 1907/2006
Date / Revised: 10.12.2010
Product: **FASTAC 100 EC**

Version: 3.0

310 11 I
(ID no. 30362347/SDS_CPA_EU/EN)

Date of print 17.02.2011

labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

Reference to other sections

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

7. Handling and Storage

Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

The product is combustible. Vapours may form ignitable mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds. Segregate from oxidants. Segregate from strong bases. Further information on storage conditions: Keep away from heat. Protect against moisture. Protect from direct sunlight.

Storage stability:

Storage duration: 24 Months

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.

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.

8. Exposure Controls/Personal Protection

Control parameters

Components with workplace control parameters

| 64742-95-6: Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified

| 67375-30-8: alpha-Cypermethrin

Exposure controls

Personal protective equipment

Respiratory protection:

Breathing protection if gases/vapours are formed. Wear respiratory protection if ventilation is inadequate. Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Hand protection:

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

Eye protection:

Tightly fitting safety goggles (splash 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. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Take off immediately all contaminated clothing. Store work clothing separately. Keep away from food, drink and animal feeding stuffs. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Form:	liquid	
Colour:	colourless to yellowish	
Odour:	aromatic	
Odour threshold:	not determined	
pH value:	approx. 7.2 (1 g/l, 20 °C)	
Freezing point:	No data available.	
<i>Information on: Solvent naphtha (petroleum), light arom.</i>		
Boiling range:	160 - 180 °C	(DIN 51751)

Flash point:	42 - 46 °C	(Directive 92/69/EEC, A.9)
Flammability:	Flammable.	
Lower explosion limit:	not applicable	
Upper explosion limit:	not applicable	
Ignition temperature:	472 °C	
Vapour pressure:	approx. 2 hPa (20 °C)	
Density:	Information applies to the solvent. approx. 0.919 g/cm ³ (20 °C)	(Directive 92/69/EEC, A.3)
Solubility in water:	emulsifiable	
Partitioning coefficient n-octanol/water (log Kow):	not applicable	

BASF Safety data sheet according to Regulation (EC) No. 1907/2006
Date / Revised: 10.12.2010
Product: **FASTAC 100 EC**

Version: 3.0

310 11 I
(ID no. 30362347/SDS_CPA_EU/EN)

Self ignition: Temperature: 472 °C
Pressure: 1,012 hPa
Date of print 17.02.2011
(Method: Directive 92/69/EEC, A.15)

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Viscosity, dynamic: 1.74 mPa.s
(20 °C)

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

Other information

Bulk density:
dropped

10. Stability and Reactivity

Reactivity

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

Chemical stability

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

Possibility of hazardous reactions

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

Conditions to avoid

See MSDS section 7 - Handling and storage.

Incompatible materials

Substances to avoid:
oxidizing agents, strong alkalies

Hazardous decomposition products

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

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Experimental/calculated data:
LD50 rat (oral): 853 mg/kg

LC50 rat (by inhalation): 1.15 mg/l 4 h
An aerosol was tested.

BASF Safety data sheet according to Regulation (EC) No. 1907/2006
Date / Revised: 10.12.2010
Product: **FASTAC 100 EC**

Version: 3.0

310 11 I
(ID no. 30362347/SDS_CPA_EU/EN)

Date of print 17.02.2011

LD50 rat (dermal): > 1,830 mg/kg

Irritation

Experimental/calculated data:
Skin corrosion/irritation rabbit: non-irritant

Serious eye damage/irritation rabbit: Risk of serious damage to eyes.

Respiratory/Skin sensitization

Experimental/calculated data:
modified Buehler test guinea pig: Caused skin sensitization in animal studies. (OECD Guideline 406)

Germ cell mutagenicity

| *Information on: alpha-Cypermethrin*
Assessment of mutagenicity:

| *The substance was not mutagenic in bacteria.*

| *Information on: Solvent naphtha (petroleum), light arom.*
Assessment of mutagenicity:

| *The chemical structure does not suggest such an effect.*

Carcinogenicity

Assessment of carcinogenicity:
Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Reproductive toxicity

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

Developmental toxicity

Assessment of teratogenicity:
In animal studies the substance did not cause malformations. The product has not been tested. The statement has been derived from the properties of the individual components.

Specific target organ toxicity (single exposure)

Assessment of STOT single:
The available information is not sufficient for evaluation.

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

Assessment of repeated dose toxicity:
Harmful: danger of serious damage to health by prolonged exposure if swallowed.

BASF Safety data sheet according to Regulation (EC) No. 1907/2006
Date / Revised: 10.12.2010
Product: **FASTAC 100 EC**

Version: 3.0

310 11 I
(ID no. 30362347/SDS_CPA_EU/EN)

Date of print 17.02.2011

Aspiration hazard

May also damage the lung at swallowing (aspiration hazard).

Other relevant toxicity information

Misuse can be harmful to health. May cause paraesthesia.

12. Ecological Information

Toxicity

Toxicity to fish:
LC50 (96 h) 0.056 mg/l, *Oncorhynchus mykiss*

Aquatic invertebrates:
EC50 (48 h) 4 - 6,5 µg/l, *Daphnia magna*

Information on: alpha-Cypermethrin

Aquatic plants:

*EC50 (96 h) > 100 µg/l, *Scenedesmus subspicatus* (OECD Guideline 201)*

| *Information on: Solvent naphtha (petroleum), light arom.*

Aquatic plants:

| *EC50 1 - 10 mg/l*

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

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

Information on: alpha-Cypermethrin

Elimination information:

DOC reduction (28 d) (OECD 301D; EEC 92/69, C.4-E) Not readily biodegradable (by OECD criteria).

CO₂ formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) Not readily biodegradable (by OECD criteria).

Bioaccumulative potential

Bioaccumulation potential:

No data available concerning bioaccumulation.

Mobility in soil (and other compartments if available)

Assessment transport between environmental compartments:

No data available.

BASF Safety data sheet according to Regulation (EC) No. 1907/2006
Date / Revised: 10.12.2010
Product: **FASTAC 100 EC**

Version: 3.0

310 11 I
(ID no. 30362347/SDS_CPA_EU/EN)

Date of print 17.02.2011

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..

Additional information

Other ecotoxicological advice:
Do not discharge product into the environment without control.

13. Disposal Considerations

Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

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

14. Transport Information

Land transport

ADR

Hazard class: 3
Packing group: III
ID number: UN 1993
Hazard label: 3, EHSM
Proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains ALPHA-CYPERMETHRIN 11%, SOLVENT NAPHTHA)

RID

Hazard class: 3
Packing group: III
ID number: UN 1993
Hazard label: 3, EHSM
Proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains ALPHA-CYPERMETHRIN 11%, SOLVENT NAPHTHA)

Inland waterway transport

ADNR

Hazard class: 3
Packing group: III
ID number: UN 1993
Hazard label: 3, EHSM
Proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains ALPHA-CYPERMETHRIN

BASF Safety data sheet according to Regulation (EC) No. 1907/2006
 Date / Revised: 10.12.2010
 Product: **FASTAC 100 EC**

Version: 3.0

310 11 I
 (ID no. 30362347/SDS_CPA_EU/EN)

Date of print 17.02.2011

11%, SOLVENT NAPHTHA)

I

Sea transport**IMDG**

Hazard class: 3
 Packing group: III
 ID number: UN 1993
 Hazard label: 3, EHS
 Marine pollutant: YES
 Proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains ALPHA-CYPERMETHRIN 11%, SOLVENT NAPHTHA)

Air transport**IATA/ICAO**

Hazard class: 3
 Packing group: III
 ID number: UN 1993
 Hazard label: 3
 Proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains ALPHA-CYPERMETHRIN 11%, SOLVENT NAPHTHA)

15. Regulatory Information**Safety, health and environmental regulations/legislation specific for the substance or mixture**

For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)

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 hazard symbols, hazard statements and R-phrases if mentioned as hazardous components in chapter 3:

T	Toxic.
N	Dangerous for the environment.
Xn	Harmful.
Xi	Irritant.
20	Harmful by inhalation.
25	Toxic if swallowed.
37/38	Irritating to respiratory system and skin.
48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
10	Flammable.

BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 10.12.2010

Version: 3.0

Product: **FASTAC 100 EC**

310 11 I

(ID no. 30362347/SDS_CPA_EU/EN)

Date of print 17.02.2011

37	Irritating to respiratory system.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.
41	Risk of serious damage to eyes.
53	May cause long-term adverse effects in the aquatic environment.

Vertical lines in the left hand margin indicate an amendment from the previous version.

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. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.