

**TO CAUSE A HAZARD IN THE USE, STORAGE, OR DISPOSAL OF THIS SUBSTANCE IS AN OFFENCE.**

**PRECAUTIONS:**

1. Handle with care; avoid splashing/contact; poisonous by swallowing, inhalation and contact with the skin.
2. WEAR FULL PROTECTIVE CLOTHING, i.e. rubber gloves, rubber boots, overalls, hood and respirator.
3. Do not eat, drink or smoke while applying this insecticide.
4. DANGEROUS TO ANIMALS, FISH, BEES AND BIRDS.
5. Remove protective clothing on completion of spraying, and wash hands and face thoroughly with soap and water.
6. DO NOT CONTAMINATE DRINKING POOLS, DAMS, RIVERS AND WATERWAYS.
7. DANGEROUS TO LIVESTOCK AND DOMESTIC PETS.
8. KEEP OUT OF REACH OF CHILDREN.
9. KEEP APART FROM FOOD AND FOODSTUFFS.
10. Store in original container and KEEP UNDER LOCK AND KEY.
11. Destroy empty container - do NOT use for any other purpose.

**SYMPTOMS OF POISONING:**

Tingling, burning or numbness follows skin contamination. These symptoms should wear off in the course of a few hours, Massive overexposure or purposeful ingestion will induce neurological symptoms such as ataxia and convulsions.

**FIRST AID:**

In mild exposure, without ingestion, decontaminate by washing with soap and water. If concentrate is swallowed DO NOT induce vomiting and remove to hospital at once.

**NOTE TO PHYSICIAN:**

If swallowed, empty the stomach. Treat symptomatically. Aspiration of solvents and chemical pneumonitis are the main hazards with liquid formulations.

**COMPATIBILITY:**

FASTAC is compatible with molasses and most acaricides used in cotton. FASTAC is compatible with FRONTIER OPTIMA.

**WARNING:**

Allow the following minimum number of days between the last application and harvesting or grazing: Cotton - 28 days, Maize - 14 days.

**SHELF LIFE:**

Two years from date of manufacture (see side of container) if stored in a cool, dry place in original, sealed container.

**WARRANTY:**

This product and the recommendations concerning its uses should give excellent results, but since the performance of crop protection chemicals and pesticides can be greatly influenced by factors outside the manufacturer's control, the manufacturer and seller give no guarantee or warranty, expressed or implied, concerning the use of the product and they assume no responsibility for damage, injury or loss of profit arising from the use thereof.

**FOR FURTHER INFORMATION ON THIS PRODUCT  
OR IN THE EVENT OF AN EMERGENCY  
PHONE HARARE 309825**

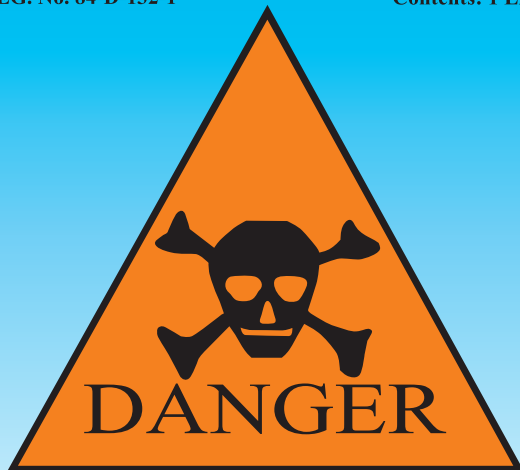


**FASTAC 10EC \***

**I N S E C T I C I D E**

**REG. No. 84-D-132-1**

**Contents: 1 Litre**



**POISON**

**COMPOSITION: (mass/volume)**

alphacypermethrin ..... 100 g/litre  
solvents, emulsifiers ..... 900 g/litre

**FASTAC is a pyrethoid insecticide effective against a wide range of insect pests on cotton and cutworm in maize and tobacco.**

**PIVOTAL AGRO-SERVICES**

**DIRECTIONS FOR USE:**

FASTAC is a pyrethroid insecticide effective against a wide range of insect pests on cotton and cutworm in maize and tobacco. FASTAC MAY NOT BE USED ON ANY CROP BETWEEN 1ST JUNE AND 31ST AUGUST.

CROP	PEST	RATE	APPLICATION
Cotton	Heliothis bollworm	Plant Height Quantity of FASTAC / ha Spray volumes / ha:	400-900 mm Over 900 mm 80ml 120ml
	Red bollworm	Tallboom Mistblower	100/ 150/ 65/ 100/
	Spiny bollworm	Aerial Handheld ulv	10/ 15/ 3.30/ 5/
	Leafeaters	<b>Mixing</b> for conventional ground and aerial application: Measure out the required quantity of product and pre-mix this with at least 10/ water. <b>Add</b> this to the spray tank while agitating the mixture. Fill the spray tank while maintaining agitation to ensure thorough mixing before spraying commences. <b>Mixing</b> for handheld ulv: To prepare 1l of the spray: Mix 24 ml FASTAC plus 350 ml of molasses and make up to 1 litre with water.	
	Jassids Stainers	NOTE: FASTAC may not be used on cotton before 25th December or after 1st March in the S.I. Lowveld or before 1st February elsewhere.	
Maize	Cutworm ( <i>Agrotis</i> spp)	120 ml / FASTAC / ha	Applied at planting or after germination in a 300 mm band along the row.
Tobacco TRB cert.- 13-16-D-71	Cutworm (Post planting)	13 ml / 100 l water	<b>Drench</b> using a 30 ml fertilizer cup of solution over each seedling, ensuring coverage of soil and stem around seedling base. Use 450 l of solution per hectare.
		20 ml / 100l water	<b>Spray</b> a 300 mm swath using: (a) Knapsack sprayer with LF 15-80 or 8015E nozzle at 100-150 kPa pressure, traversing row at 1m/sec. (b) Tractor mounted boom with nozzle directly above row centres at speed of 8kph using LF 30-65 nozzles per row at pressure of 100-150kPa. 500 l /ha of solution required to ensure maximum run off and plant and soil wetting.
		Incorporation with herbicide: 100 ml/ha added to herbicide mix	
Late infestations		13 ml / 100 l water	<b>Drench</b> using up to two 30 ml cups per plant to wet the soil surrounding the stem. Use 450 to 900 l of solution per hectare.
		20 ml / 100l water	<b>Spray</b> high volume spray directed to base and covering lower leaves. Apply in 425 /ha.

# 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

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## 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

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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.

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

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.

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## **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.

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## **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.

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## 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.

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## 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.

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## 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)
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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 <sup>3</sup> (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

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## 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 alkalis

### Hazardous decomposition products

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

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## 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.*  
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#### 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.

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## 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*  
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### 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*

*Elimination information:*

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

*CO<sub>2</sub> formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) Not readily biodegradable (by OECD criteria).*  
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### 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, EHSM  
 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.

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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

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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.

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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.