

## ICON

Version 9

Revision Date 25.04.2006

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### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### PRODUCT INFORMATION

**Product name** : ICON  
**Design Code** : A12684L  
**Use** : insecticide  
**Company** : Syngenta Crop Protection AG  
 Postfach  
 CH-4002 Basel  
 Switzerland  
**Telephone** : +41 61 323 11 11  
**Telefax** : +41 61 323 12 12  
**Emergency telephone number** : +44 1484 538444



### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

| Chemical Name      | CAS-No.    | EC-No.    | Symbol(s) | R-phrase(s)                 | Concentration |
|--------------------|------------|-----------|-----------|-----------------------------|---------------|
| lambda-cyhalothrin | 91465-08-6 | 415-130-7 | T+, N     | R21<br>R25<br>R26<br>R50/53 | 10 % W/W      |

For the full text of the R phrases mentioned in this Section, see Section 16.

### 3. Hazards identification

Harmful if swallowed.  
 Toxic by inhalation.  
 Irritating to eyes.  
 May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.  
 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 4. FIRST AID MEASURES

**General advice** : Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control center or physician, or going for treatment.

**Inhalation** : Remove to fresh air.  
 If breathing is irregular or stopped, administer artificial respiration.  
 Keep patient warm and at rest.  
 Call a physician or Poison Control Centre immediately.

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- Skin contact** : Take off contaminated clothing and shoes immediately.  
Wash off immediately with plenty of water.  
If skin irritation persists, call a physician.  
Wash contaminated clothing before re-use.
- Eye contact** : Rinse immediately with plenty of water, also under the eyelids,  
for at least 15 minutes.  
Remove contact lenses.  
Immediate medical attention is required.
- Ingestion** : If swallowed, seek medical advice immediately and show this  
container or label.  
Do NOT induce vomiting.
- Medical advice** : Skin contact paresthesia effects (itching, tingling, burning or  
numbness) are transient, lasting up to 24 hours. Treat  
symptomatically.

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**5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media** : Extinguishing media - small fires  
Use water spray, alcohol-resistant foam, dry chemical or  
carbon dioxide.  
Extinguishing media - large fires  
alcohol-resistant foam  
water spray
- Extinguishing media which must not be used for safety reasons** : Do not use a solid water stream as it may scatter and spread  
fire.
- Specific hazards during fire fighting** : As the product contains combustible organic components, fire  
will produce dense black smoke containing hazardous products  
of combustion (see section 10).  
Exposure to decomposition products may be a hazard to  
health.
- Special protective equipment for fire-fighters** : In the event of fire, wear self-contained breathing apparatus.
- Further information** : Do not allow run-off from fire fighting to enter drains or water  
courses.  
Cool closed containers exposed to fire with water spray.

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**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions** : Refer to protective measures listed in sections 7 and 8.  
Avoid dust formation.
- Environmental precautions** : Do not flush into surface water or sanitary sewer system.

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- Methods for cleaning up** : Pick up and arrange disposal without creating dust.  
Do not create a powder cloud by using a brush or compressed air.  
Clean contaminated surface thoroughly.
- Additional advice** : If the product contaminates rivers and lakes or drains inform respective authorities.

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**7. HANDLING AND STORAGE****HANDLING**

- Advice on safe handling** : This material is capable of forming flammable dust clouds in air, which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material. Electrical equipment should be compatible with the flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents or is handled in the presence of flammable solvents. Avoid contact with skin and eyes. When using, do not eat, drink or smoke. For personal protection see section 8.

**STORAGE**

- Requirements for storage areas and containers** : Keep containers tightly closed in a dry, cool and well-ventilated place.  
Keep out of the reach of children.  
Keep away from food, drink and animal feedingstuffs.

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Components with workplace control parameters

| Components         | Exposure limit(s)      | Value type | Source   |
|--------------------|------------------------|------------|----------|
| lambda-cyhalothrin | 0.04 mg/m <sup>3</sup> | 8 h TWA    | SYNGENTA |

#### ENGINEERING MEASURES

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

If airborne dust is generated, use local exhaust ventilation controls.

Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit.

Where necessary, seek additional occupational hygiene advice.

#### PERSONAL PROTECTIVE EQUIPMENT

- Protective measures** : The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.
- Respiratory protection** : A particulate filter respirator may be necessary until effective technical measures are installed. Protection provided by air-purifying respirators is limited. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.
- Hand protection** : Chemical resistant gloves should be used. Gloves should be certified to an appropriate standard. Gloves should have a minimum breakthrough time that is appropriate to the duration of exposure. The breakthrough time of gloves varies according to the thickness, material and manufacturer. Gloves should be changed when breakthrough is suspected. Suitable material:  
nitrile rubber
- Eye protection** : If eye contact is possible, use tight-fitting chemical safety goggles.
- Skin and body protection** : Assess the exposure and select chemical resistant clothing based on the potential for contact and the permeation / penetration characteristics of the clothing material. Wash with soap and water after removing protective clothing. Decontaminate clothing before re-use, or use disposable equipment (suits, aprons, sleeves, boots, etc.) Wear as appropriate:  
dust impervious protective suit

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

|                             |                        |
|-----------------------------|------------------------|
| <b>Form</b>                 | : powder               |
| <b>Colour</b>               | : off-white            |
| <b>pH</b>                   | : 5.5 - 9.0 at 1 % w/v |
| <b>Oxidizing properties</b> | : not oxidizing        |
| <b>Explosive properties</b> | : Not explosive        |
| <b>Bulk density</b>         | : 385 - 585 g/l        |
| <b>Water solubility</b>     | : soluble              |

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**10. STABILITY AND REACTIVITY**

|                                         |                                                                                              |
|-----------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Hazardous decomposition products</b> | : Combustion or thermal decomposition will evolve toxic and irritant vapors.                 |
| <b>Hazardous reactions</b>              | : None known.<br>Hazardous polymerization does not occur.<br>Stable under normal conditions. |

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**11. TOXICOLOGICAL INFORMATION**

|                                  |                                                                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Acute oral toxicity</b>       | : Median lethal dose Rat, ca. 550 - 650 mg/kg<br>Based on test results obtained with similar product.                            |
| <b>Acute inhalation toxicity</b> | : LC50 Rat, 642 - 855 µg/l, 4 h                                                                                                  |
| <b>Acute dermal toxicity</b>     | : Median lethal dose Rat, > 2,000 mg/kg<br>Based on test results obtained with similar product.                                  |
| <b>Skin irritation</b>           | : Rabbit: Slightly Irritating<br>May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia. |
| <b>Eye irritation</b>            | : Rabbit: Moderate eye irritation                                                                                                |
| <b>Sensitization</b>             | : guinea pig<br>Unlikely to cause skin sensitization                                                                             |
| <b>Long term toxicity</b>        | <br>Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.                                           |

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**12. ECOLOGICAL INFORMATION****ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)**

- Bioaccumulation** : Lambda-cyhalothrin bioaccumulates.
- Stability in water** : Lambda-cyhalothrin is not persistent in water.
- Stability in soil** : Lambda-cyhalothrin is not persistent in soil.
- Mobility** : Lambda-cyhalothrin is immobile in soil and will not leach.

**ECOTOXICITY EFFECTS**

- Toxicity to fish** : LC50 *Oncorhynchus mykiss* (rainbow trout), 4 µg/l , 96 h  
Derived from active ingredient(s)
- Toxicity to aquatic invertebrates** : EC50 *Daphnia magna* (Water flea), 3.6 µg/l , 48 h  
Derived from active ingredient(s)

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**13. DISPOSAL CONSIDERATIONS**

- Product** : Do not contaminate ponds, waterways or ditches with chemical or used container.  
Do not dispose of waste into sewer.  
Where possible recycling is preferred to disposal or incineration.  
If recycling is not practicable, dispose of in compliance with local regulations.
- Contaminated packaging** : Empty remaining contents.  
Triple rinse containers.  
Empty containers should be taken for local recycling or waste disposal.  
Do not re-use empty containers.

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**14. TRANSPORT INFORMATION****Land transport***ADR/ RID:*

UN-No: 3077  
Class: 9  
Danger Label Number : 9  
Packaging group III  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
( LAMBDA-CYHALOTHRIN 10% )

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### Sea transport

#### IMDG:

UN-No: 3077  
 Class: 9  
 Danger Label Number : 9  
 Packaging group: III  
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
 ( LAMBDA-CYHALOTHRIN 10% )

Marine pollutant : Marine pollutant

### Air transport

#### IATA-DGR

UN-No: 3077  
 Class: 9  
 Danger Label Number : 9  
 Packaging group: III  
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
 ( LAMBDA-CYHALOTHRIN 10% )

## 15. REGULATORY INFORMATION

### Labelling according to EC Directives

Hazardous components which must be listed on the label:

- lambda-cyhalothrin

|                     |                                   |                                                                                                                                                                          |
|---------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Symbol(s)</b>    | : N<br>T                          | Dangerous for the environment<br>Toxic                                                                                                                                   |
| <b>R-phrases(s)</b> | : R22<br>R23<br>R36<br>R50/53     | Harmful if swallowed.<br>Toxic by inhalation.<br>Irritating to eyes.<br>Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| <b>S-phrases(s)</b> | : S 2<br>S13<br><br>S20/21<br>S22 | Keep out of the reach of children.<br>Keep away from food, drink and animal feedingstuffs.<br><br>When using do not eat, drink or smoke.<br>Do not breathe dust.         |

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|     |                                                                    |
|-----|--------------------------------------------------------------------|
| S24 | Avoid contact with skin.                                           |
| S35 | This material and its container must be disposed of in a safe way. |
| S57 | Use appropriate container to avoid environmental contamination.    |

**Note** : The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

**16. OTHER INFORMATION****Further information**

Text of R phrases mentioned in Section 2:

|               |                                                                                                  |
|---------------|--------------------------------------------------------------------------------------------------|
| <b>R21</b>    | Harmful in contact with skin.                                                                    |
| <b>R25</b>    | Toxic if swallowed.                                                                              |
| <b>R26</b>    | Very toxic by inhalation.                                                                        |
| <b>R50/53</b> | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

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