

ICON 5EC

Version 7

Revision Date 09.02.2006

Print Date 15.02.2006

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

PRODUCT INFORMATION

Product name : **ICON 5EC**
Design Code : A10970A
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



Toxic



Dangerous for the environment

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 R25 R26 R50/53	5.49 % W/W
benzenesulfonic acid, dodecyl-, calcium salt	26264-06-2	247-557-8	Xi	R10 R36/38	2 - 8 % W/W
alkoxylated alkylphenol	68412-54-4		Xn	R22 R36/38 R53	5 - 10 % W/W
solvent naphtha (petroleum), light arom.	64742-95-6	265-199-0	Xn, N	R10 R37 R51/53 R65 R66 R67	75 - 90 % W/W

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

ICON 5EC

Version 7

Revision Date 09.02.2006

Print Date 15.02.2006

3. Hazards identification

Flammable.
Harmful if swallowed.
Toxic by inhalation.
Irritating to respiratory system and skin.
Risk of serious damage to eyes.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Harmful: may cause lung damage if swallowed.

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.
- 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.

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
- 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

ICON 5EC

Version 7

Revision Date 09.02.2006

Print Date 15.02.2006

of combustion (see section 10).
Exposure to decomposition products may be a hazard to health.
Flash back possible over considerable distance.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Refer to protective measures listed in sections 7 and 8.
Keep people away from and upwind of spill/leak.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Remove all sources of ignition.
Pay attention to flashback.

Environmental precautions : Prevent further leakage or spillage if safe to do so.
Do not flush into surface water or sanitary sewer system.

Methods for cleaning up : Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Additional advice : If the product contaminates rivers and lakes or drains inform respective authorities.

7. HANDLING AND STORAGE**HANDLING**

Advice on safe handling : Avoid contact with skin and eyes.
When using, do not eat, drink or smoke.
Take precautionary measures against static discharges.
Use only in an area containing flame proof equipment.
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.
Keep away from heat and sources of ignition.
Keep away from combustible material.
Keep in an area equipped with sprinklers.

ICON 5EC

Version 7

Revision Date 09.02.2006

Print Date 15.02.2006

No smoking.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components	Exposure limit(s)	Value type	Source
lambda-cyhalothrin	0.04 mg/m ³ 20 mg/m ³	8 h TWA	SYNGENTA SUVA
solvent naphtha (petroleum), light arom.	100 mg/m ³	8 h TWA	SUPPLIER

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 mists or vapors are 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 and a face shield.
- Skin and body protection** : Assess the exposure and select chemical resistant clothing based on the potential for contact and the permeation /

ICON 5EC

Version 7

Revision Date 09.02.2006

Print Date 15.02.2006

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:
impervious protective suit

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	clear to slightly turbid liquid
Colour	:	yellow
Odour	:	aromatic
pH	:	4.5 - 6.5 at 5 % w/v
Flash point	:	≥ 38 °C Abel-Pensky c.c.
Oxidizing properties	:	not oxidizing
Explosive properties	:	Not explosive
Density	:	0.905 - 0.915 g/ml at 20 °C
Water solubility	:	0.91 g/ml Miscible Miscible

10. STABILITY AND REACTIVITY

Hazardous decomposition products	:	Combustion or thermal decomposition will evolve toxic and irritant vapors.
Hazardous reactions	:	None known. Hazardous polymerization does not occur. Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	:	LD50 Rat, 668 mg/kg
Acute inhalation toxicity	:	LC50 male Rat, 1.384 mg/l, 4 h LC50 female Rat, 1 mg/l, 4 h
Acute dermal toxicity	:	LD50 Rat, > 4,000 mg/kg
Skin irritation	:	Rabbit: highly irritant

ICON 5EC

Version 7

Revision Date 09.02.2006

Print Date 15.02.2006

Eye irritation : Rabbit: highly irritant

Sensitization : guinea pig
not sensitizing

Long term toxicity

Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

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), 16.6 µg/l , 96 h

Toxicity to aquatic invertebrates : EC50 *Daphnia magna* (Water flea), 1.8 µg/l , 48 h

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.

14. TRANSPORT INFORMATION

ICON 5EC

Version 7

Revision Date 09.02.2006

Print Date 15.02.2006

Land transport*ADR/ RID:*

UN-No: 1993
Class: 3
Danger Label Number : 3
Packaging group III
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(SUBSTITUTED BENZENOID HYDROCARBONS AND LAMBDA-CYHALOTHRIN)

Sea transport*IMDG:*

UN-No: 1993
Class: 3
Danger Label Number : 3
Packaging group: III
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(SUBSTITUTED BENZENOID HYDROCARBONS AND LAMBDA-CYHALOTHRIN)

Marine pollutant : Marine pollutant

Air transport*IATA-DGR*

UN-No: 1993
Class: 3
Danger Label Number : 3
Packaging group: III
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(SUBSTITUTED BENZENOID HYDROCARBONS AND LAMBDA-CYHALOTHRIN)

15. REGULATORY INFORMATION**Labelling according to EC Directives**

Hazardous components which must be listed on the label:

- lambda-cyhalothrin
- solvent naphtha (petroleum), light arom.

Symbol(s) : T Toxic
N Dangerous for the environment

ICON 5EC

Version 7

Revision Date 09.02.2006

Print Date 15.02.2006

R-phrases(s)	:	R10 R22 R23 R37/38 R41 R50/53 R65	Flammable. Harmful if swallowed. Toxic by inhalation. Irritating to respiratory system and skin. Risk of serious damage to eyes. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed.
S-phrases(s)	:	S 2 S13 S20/21 S26 S35 S39 S45 S57	Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. This material and its container must be disposed of in a safe way. Wear eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Use appropriate container to avoid environmental contamination.
Special labelling of certain preparations	:	To avoid risks to man and the environment, comply with the instructions for use.	
Note	:	The preparation is classified as dangerous in accordance with Directive 1999/45/EC.	

ICON 5EC

Version 7

Revision Date 09.02.2006

Print Date 15.02.2006

16. OTHER INFORMATION**Further information**

Text of R phrases mentioned in Section 2:

R10	Flammable.
R21	Harmful in contact with skin.
R22	Harmful if swallowed.
R25	Toxic if swallowed.
R26	Very toxic by inhalation.
R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapors may cause drowsiness and dizziness.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

A vertical bar in the left margin indicates an amendment from the previous version.

Product names are a trademark or registered trademark of a Syngenta Group Company.
