

**ICON 2.5 EW**

Version 3 - This version replaces all previous versions.

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**SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**Product name : **ICON 2.5 EW**

Design code : A13117E

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

Use : Insecticide

**1.3 Details of the supplier of the safety data sheet**Company : Syngenta Crop Protection AG  
Postfach  
CH-4002 Basel  
Switzerland

Telephone : +41 61 323 11 11

Telefax : +41 61 323 12 12

E-mail address : [safetydatasheetcoordination@syngenta.com](mailto:safetydatasheetcoordination@syngenta.com)**1.4 Emergency telephone number****Emergency tele-  
phone number** : +44 1484 538444**SECTION 2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

Classification according to Regulation (EU) 1272/2008

Acute toxicity (Oral)	Category 4	H302
Acute toxicity (Inhalation)	Category 4	H332
Acute aquatic toxicity	Category 1	H400
Chronic aquatic toxicity	Category 1	H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

N, Dangerous for the environment

T, Toxic

R22: Harmful if swallowed.

R23: Toxic by inhalation.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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### 2.2 Label elements

Labelling: Regulation (EC) No. 1272/2008

Hazard pictograms



Signal word	:	Warning	
Hazard statements	:	H302	Harmful if swallowed.
		H332	Harmful if inhaled.
		H410	Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	P102	Keep out of reach of children.
		P270	Do not eat, drink or smoke when using this product.
		P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
		P391	Collect spillage.
		P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

Labelling: EU Directives 67/548/EEC or 1999/45/EC

Symbol(s)



**Dangerous  
for the envi-  
ronment**



**Toxic**

R-phrase(s)	:	R22	Harmful if swallowed.
		R23	Toxic by inhalation.
		R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	:	S 2	Keep out of the reach of children.
		S13	Keep away from food, drink and animal feedingstuffs.
		S20/21	When using do not eat, drink or smoke.
		S24	Avoid contact with skin.
		S35	This material and its container must be disposed of in a safe way.
		S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
	S57	Use appropriate container to avoid environmental contamination.	

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**Special labelling of certain mixtures** : To avoid risks to man and the environment, comply with the instructions for use.

Hazardous components which must be listed on the label:

- lambda-cyhalothrin

### 2.3 Other hazards

May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

#### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration
lambda-cyhalothrin	91465-08-6 415-130-7	T+, N R21 R25 R26 R50/53	Acute Tox.3; H301 Acute Tox.3; H311 Acute Tox.2; H330 Aquatic Acute1; H400 Aquatic Chronic1; H410	2.5 % W/W
propane-1,2-diol	57-55-6 200-338-0	-	-	5 - 10 % W/W
solvent naphtha (petroleum), light arom.	64742-95-6 265-199-0	Xn, N R10 R37 R51/53 R65 R66 R67	Flam. Liq.3; H226 STOT SE3; H335 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411	1 - 5 % W/W

Substances for which there are Community workplace exposure limits.

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

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of 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** : Move the victim 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 all contaminated clothing 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.

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

- Symptoms : Aspiration may cause pulmonary oedema and pneumonitis.  
Skin contact paresthesia effects (itching, tingling, burning or numbness) are transient, lasting up to 24 hours.

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

- Medical advice : Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.  
Treat symptomatically.

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**SECTION 5. FIRE-FIGHTING MEASURES****5.1 Extinguishing media**

Extinguishing media - small fires  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Extinguishing media - large fires  
Alcohol-resistant foam  
or  
Water spray

Do not use a solid water stream as it may scatter and spread fire.

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

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.

**5.3 Advice for firefighters**

Wear full protective clothing and self-contained breathing apparatus.

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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### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Refer to protective measures listed in sections 7 and 8.

#### 6.2 Environmental precautions

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

#### 6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect 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).

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

#### 6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.  
Refer to disposal considerations listed in section 13.

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### SECTION 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

No special protective measures against fire required.  
Avoid contact with skin and eyes.  
When using do not eat, drink or smoke.  
For personal protection see section 8.

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

No special storage conditions required.  
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.

#### 7.3 Specific end uses

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

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

Components	Exposure limit(s)	Type of exposure limit	Source
lambda-cyhalothrin	0.04 mg/m <sup>3</sup> (Skin)	8 h TWA	SYNGENTA
propane-1,2-diol	10 mg/m <sup>3</sup> (Particulates) 150 ppm, 470 mg/m <sup>3</sup> (Total (vapour & particulates))	8 h TWA 8 h TWA	UK HSE UK HSE
solvent naphtha (petroleum), light arom.	100 mg/m <sup>3</sup>	8 h TWA	SUPPLIER

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of the product.

#### 8.2 Exposure controls

- 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.
- 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 discarded and replaced if there is any indication of degradation or chemical breakthrough.  
Suitable material  
Nitrile rubber

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- Eye protection : Eye protection is not usually required.  
Follow any site specific eye protection policies.
- 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:  
impervious protective suit

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state	: liquidliquid
Form	: liquid
Colour	: white to beige
Odour	: aromatic
Odour Threshold	: no data available
pH	: 4 - 8 at 1 % w/v
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: > 50 °C
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Vapour pressure	: no data available
Relative vapour density	: no data available
Density	: 1.01 g/ml
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Autoignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Viscosity, kinematic	: no data available
Explosive properties	: no data available
Oxidizing properties	: no data available

#### 9.2 Other information

: no data available

### SECTION 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

No information available.

#### 10.2 Chemical stability

No information available.

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### 10.3 Possibility of hazardous reactions

None known.  
Hazardous polymerisation does not occur.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

No information available.

### 10.6 Hazardous decomposition products

Combustion or thermal decomposition will evolve toxic and irritant vapors

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute oral toxicity : LD50 female rat, 550 mg/kg

Acute inhalation toxicity : LC50 male and female rat, 2.4 mg/l , 4 h  
Derived from components.

Acute dermal toxicity : Median lethal dose male and female rat, > 2,000 mg/kg

Skin corrosion/irritation : rabbit: Mildly irritating

Serious eye damage/eye irritation : rabbit: Moderately irritating

Respiratory or skin sensitization : guinea pig: Not a skin sensitizer in animal tests.

Germ cell mutagenicity  
lambda-cyhalothrin : Did not show mutagenic effects in animal experiments.

Carcinogenicity  
lambda-cyhalothrin : Did not show carcinogenic effects in animal experiments.

Reproductive toxicity  
lambda-cyhalothrin : Did not show reproductive toxicity effects in animal experiments.

STOT - repeated exposure  
lambda-cyhalothrin : No adverse effect has been observed in chronic toxicity tests.

Aspiration toxicity : No aspiration toxicity classification  
Derived from components.

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity



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Toxicity to fish : LC50 Salmo trutta (trout), 18 µg/l , 96 h  
Derived from components.

Toxicity to aquatic invertebrates : EC50 Daphnia magna (Water flea), 15 µg/l , 48 h  
Derived from components.

**12.2 Persistence and degradability**

Stability in water  
lambda-cyhalothrin : Degradation half life: 7 d  
Not persistent in water

Stability in soil  
lambda-cyhalothrin : Degradation half life : 56 d  
Not persistent in soil.

**12.3 Bioaccumulative potential**

lambda-cyhalothrin : Lambda-cyhalothrin bioaccumulates.

**12.4 Mobility in soil**

lambda-cyhalothrin : Lambda-cyhalothrin is immobile in soil.

**12.5 Results of PBT and vPvB assessment**

lambda-cyhalothrin : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).  
This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

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**SECTION 13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

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 to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

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### SECTION 14. TRANSPORT INFORMATION

#### Land transport (ADR/RID)

14.1 UN number:	UN 3082
14.2 UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LAMBDA-CYHALOTHRIN)
14.3 Transport hazard class(es):	9
14.4 Packing group:	III
Labels:	9
14.5 Environmental hazards :	Environmentally hazardous

#### Sea transport(IMDG)

14.1 UN number:	UN 3082
14.2 UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LAMBDA-CYHALOTHRIN)
14.3 Transport hazard class(es):	9
14.4 Packing group:	III
Labels:	9
14.5 Environmental hazards :	Marine pollutant

#### Air transport (IATA-DGR)

14.1 UN number:	UN 3082
14.2 UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LAMBDA-CYHALOTHRIN)
14.3 Transport hazard class(es):	9
14.4 Packing group:	III
Labels:	9

#### 14.6 Special precautions for user

none

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

### SECTION 15. REGULATORY INFORMATION

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

##### GHS-Labeling

Hazard pictograms



Signal word : Warning

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Hazard statements	:	H302 + H332 H410	Harmful if swallowed or if inhaled. Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	P102 P270  P304 + P340  P391 P501	Keep out of reach of children. Do not eat, drink or smoke when using this product. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Collect spillage. Dispose of contents/ container to an approved waste disposal plant.
Remarks	:	Classified using all GHS hazard classes and categories. Where the GHS contains options, the most conservative option has been chosen. Regional or national implementations of GHS may not implement all hazard classes and categories.	

Hazardous components which must be listed on the label:

- lambda-cyhalothrin

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

## SECTION 16. OTHER INFORMATION

### Further information

Full text of R-phrases referred to under sections 2 and 3:

R10	Flammable.
R21	Harmful in contact with skin.
R25	Toxic if swallowed.
R26	Very toxic by inhalation.
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.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

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Full text of H-Statements referred to under sections 2 and 3.

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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