

ICON 10 CS

Version 2

Revision Date 17.05.2010

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

PRODUCT INFORMATION

Product name : ICON 10 CS
Design code : A12690P
Use : Insecticide
Company : Syngenta Crop Protection AG
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 Switzerland
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**Dangerous for
the environment**

2. HAZARDS IDENTIFICATION

May be harmful if inhaled.
 Very toxic to aquatic life with long lasting effects.
 May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	EC-No. (REACH Regis- tration Number)	Symbol(s)	R-phrase(s)	Concentration
lambda- cyhalothrin	91465-08-6	415-130-7	T+, N	R21 R25 R26 R50/53	9.7 % 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	N, Xn	R10 R37 R51/53 R65 R66 R67	5 - 10 % 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.

ICON 10 CS

Version 2

Revision Date 17.05.2010

Print Date 17.05.2010

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** : 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.
- 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.
- Medical advice** : Skin contact paresthesia effects (itching, tingling, burning or numbness) are transient, lasting up to 24 hours. Treat symptomatically.
Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

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
or
Water spray
- Extinguishing media which shall 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** : Wear full protective clothing and 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.

ICON 10 CS

Version 2

Revision Date 17.05.2010

Print Date 17.05.2010

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Refer to protective measures listed in sections 7 and 8.
- 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 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).
- Additional advice** : If the product contaminates rivers and lakes or drains inform respective authorities.

7. HANDLING AND STORAGE

HANDLING

- Advice on 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.

STORAGE

- Requirements for storage areas and containers** : 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

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

ICON 10 CS

Version 2

Revision Date 17.05.2010

Print Date 17.05.2010

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** : No personal respiratory protective equipment normally required.
A particulate filter respirator may be necessary until effective technical measures are installed.
- 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
- 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

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : liquid
Form : liquid opaque
Colour : light beige to brown
pH : 4 - 8 at 1 % w/v
Flash point : > 99 °C at 101 kPa Pensky-Martens c.c.
Oxidizing properties : not oxidizing
Explosive properties : Not explosive
Density : 1.04 g/cm³ at 20 °C
Viscosity, dynamic : 41 - 208 mPa.s at 40 °C
: 55 - 268 mPa.s at 20 °C
Surface tension : 50.8 mN/m at 20 °C
: 65.5 mN/m at 20 °C

ICON 10 CS

Version 2

Revision Date 17.05.2010

Print Date 17.05.2010

: 56.6 mN/m at 20 °C

10. STABILITY AND REACTIVITY

Hazardous decomposition products : Combustion or thermal decomposition will evolve toxic and irritant vapors.

Hazardous reactions : None known.
Hazardous polymerisation does not occur.
Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : Median lethal dose male and female Rat, > 5,000 mg/kg
GHS-Classification
None
The toxicological data has been taken from products of similar composition.

Acute inhalation toxicity : Median lethal concentration male and female Rat, > 4.62 mg/l, 4 h
GHS-Classification
Category 5
The toxicological data has been taken from products of similar composition.

Acute dermal toxicity : Median lethal dose, Median lethal dose male and female Rat, > 4,000 mg/kg
GHS-Classification
None
The toxicological data has been taken from products of similar composition.

Skin irritation : Rabbit: Slightly irritating
GHS-Classification
None
May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.

Eye irritation : Rabbit: Mildly irritating
GHS-Classification
None
The toxicological data has been taken from products of similar composition.

Sensitisation : guinea pig: Not a skin sensitizer in animal tests.
GHS-Classification
None
The toxicological data has been taken from products of similar composition.

Long term toxicity
lambda-cyhalothrin : Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

ICON 10 CS

Version 2

Revision Date 17.05.2010

Print Date 17.05.2010

12. ECOLOGICAL INFORMATION**ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)****Stability in water**

lambda-cyhalothrin : Degradation half life: 7 d
Lambda-cyhalothrin is not persistent in water.

Stability in soil

lambda-cyhalothrin : Degradation half life : 56 d
Lambda-cyhalothrin is not persistent in soil.

Mobility

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

ECOTOXICITY EFFECTS**Toxicity to fish**

: LC50 *Oncorhynchus mykiss* (rainbow trout), 4 µg/l , 96 h
GHS-Classification
Category 1
Derived from components.

Toxicity to aquatic invertebrates

: EC50 *Daphnia magna* (Water flea), 4 µg/l , 48 h
GHS-Classification
Category 1
Derived from components.

Toxicity to aquatic plants

: EbC50 *Pseudokirchneriella subcapitata* (green algae), > 10 mg/l , 96 h
: ErC50 *Pseudokirchneriella subcapitata* (green algae), > 10 mg/l , 96 h
GHS-Classification
Category 3
Derived from components.

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 to an approved waste handling site for recycling or disposal.

ICON 10 CS

Version 2

Revision Date 17.05.2010

Print Date 17.05.2010

Do not re-use empty containers.

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

UN-Number: 3082

Class: 9

Labels: 9

Packaging group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(LAMBDA-CYHALOTHRIN AND SOLVENT NAPHTHA)

Environmentally hazardous: Environmentally hazardous

Sea transport*IMDG:*

UN-Number: 3082

Class: 9

Labels: 9

Packaging group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(LAMBDA-CYHALOTHRIN AND SOLVENT NAPHTHA)

Marine pollutant : Marine pollutant

Air transport*IATA-DGR:*

UN/ID No.: UN 3082

Class: 9

Labels: 9

Packaging group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(LAMBDA-CYHALOTHRIN AND SOLVENT NAPHTHA)**15. REGULATORY INFORMATION****Labelling according to EC Directives****Symbol(s)** : N Dangerous for the environment**R-phrase(s)** : R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

ICON 10 CS

Version 2

Revision Date 17.05.2010

Print Date 17.05.2010

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.
	S57	Use appropriate container to avoid environmental contamination.	

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

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

GHS-Labeling

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Pictogram



Signal word : Warning

Hazard statements : H333 May be 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.
P391 Collect spillage.
P501 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:

16. OTHER INFORMATION

Further information

ICON 10 CS

Version 2

Revision Date 17.05.2010

Print Date 17.05.2010

Text of R-phrases mentioned in Section 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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