

1.1 Product identifier

Version 8 - This version replaces all previous versions. Revision Date 14.11.2013

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

Product name	: KARATE MAXX		
Design code	: A12688A		
1.2 Relevant identified	l uses of the substance or mixture and uses advised against		
Use	: Insecticide		
1.3 Details of the supp	lier 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	: sds.ch@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
Skin sensitisation	Category 1	H317
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 Xn, Harmful R22: Harmful if swallowed. R38: Irritating to skin. R43: May cause sensitisation by skin contact. 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 H317 H332 H410	Harmful if swallowed. May cause an allergic skin reaction. Harmful if inhaled. Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	P102 P261 P270 P280 P301 + P312 P330 P333 + P313 P391 P501	<ul> <li>Keep out of reach of children.</li> <li>Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.</li> <li>Do not eat, drink or smoke when using this product.</li> <li>Wear protective gloves/ protective clothing.</li> <li>IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.</li> <li>Rinse mouth.</li> <li>If skin irritation or rash occurs: Get medical advice/ attention.</li> <li>Collect spillage.</li> <li>Dispose of contents/ container to an approved waste disposal plant.</li> </ul>
Supplemental information	:	EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

Hazardous components which must be listed on the label:

- lambda-cyhalothrin
- 1,2-benzisothiazol-3(2H)-one

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

Symbol(s)





Dangerous for the environment

Harmful

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R-phrase(s)	: R22 R38 R43 R50/53	Harmful if swallowed. Irritating to skin. May cause sensitisation by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	: S 2 S13 S20/21 S35 S36/37	Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. This material and its container must be disposed of in a safe way. Wear suitable protective clothing and gloves.
	S57	Use appropriate container to avoid environmental contamination.
Additional Labelling	: To avoid risks to for use.	o man and the environment, comply with the instructions

Hazardous components which must be listed on the label:

- lambda-cyhalothrin
- 1,2-benzisothiazol-3(2H)-one

### 2.3 Other hazards

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



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## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

### Hazardous components

Chemical Name	CAS-No. EC-No. Registration num- ber	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration
propane-1,2-diol	57-55-6 200-338-0	-	-	20 - 30 % W/W
lamb- da-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	5.3 % W/W
solvent naphtha (petroleum), highly arom.	64742-94-5 265-198-5 922-153-0 01-2119451097-39-0 002	Xn, N R51/53 R65 R66	Asp. Tox.1; H304 Aquatic Chronic2; H411	1 - 5 % W/W
1,2-benzisothiaz ol-3(2H)-one	2634-33-5 220-120-9	Xn, N R22 R38 R41 R43 R50	Acute Tox.4; H302 Skin Irrit.2; H315 Eye Dam.1; H318 Skin Sens.1; H317 Aquatic Acute1; H400	0.05 - 1 % 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.
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.



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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 immedia	te medical attention and special treatment needed
Medical advice :	Do not induce vomiting: contains petroleum distillates and/or aromatic solvents. Treat symptomatically.

## **SECTION 5. FIREFIGHTING 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.

### 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.

: Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

### 7.3 Specific end use(s)

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 expo- sure limit	Source
lambda-cyhalothrin	0.04 mg/m3 (Skin)	8 h TWA	SYNGENTA
propane-1,2-diol	10 mg/m3 (Particulates) 150 ppm, 470 mg/m3 (Total (vapour & particulates))	8 h TWA 8 h TWA	UK HSE UK HSE

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	:	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, mate- rial 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.



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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
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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Physical state Form Colour Odour Odour Threshold pH	<ul> <li>liquid</li> <li>liquid opaque</li> <li>off-white</li> <li>no data available</li> <li>no data available</li> <li>5 - 9 at 1 % <ul> <li>(aqueous suspension)</li> </ul> </li> </ul>
Melting point/range	: no data available
Boiling point/boiling range	: 100 °C
Flash point	: > 101 °C at 755 mmHg
Evapouration 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 Density	: no data available : 1.048 g/cm3 at 20 °C
Solubility in other solvents	: Miscible
Solubility in other solvents	in Water
Partition coefficient:	: no data available
n-octanol/water	
Auto-ignition temperature	: 420 °C
Thermal decomposition	: no data available
Viscosity, dynamic	: 50.8 mPa.s at 20 °C
Viscosity, kinematic	: no data available
Explosive properties	: Not explosive
Oxidizing properties	: not oxidizing
9.2 Other information	
Miscibility	: Miscible
Surface tension	: 57.6 mN/m at 20.5 °C

### SECTION 10. STABILITY AND REACTIVITY

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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

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### 11.1 Information on toxicological effects

Acute oral toxicity		LD50 male rat, 612 mg/kg The toxicological data has been taken from products of similar composi- tion. LD50 female rat, 522 mg/kg The toxicological data has been taken from products of similar composi- tion.
Acute inhalation toxicity	:	LC50 male and female rat, > 2.07 mg/l , 4 h
Acute dermal toxicity	:	LD50 male and female rat, > 2,000 mg/kg The toxicological data has been taken from products of similar composi- tion.
Skin corrosion/irritation	:	rabbit: Moderately irritating May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.
Serious eye damage/eye irritation	:	rabbit: Mildly irritating
Respiratory or skin sensi- tisation	:	man: Likely to cause skin sensitization.
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.
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### Aspiration toxicity

solvent naphtha (petroleum), highly arom. The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

### **SECTION 12. ECOLOGICAL INFORMATION**

## 12.1 Toxicity

Toxicity to fish	÷	LC50 Cyprinus carpio (Carp), 0.012 mg/l , 96 h Based on test results obtained with similar product.
Toxicity to aquatic inver- tebrates	:	EC50 Daphnia magna (Water flea), 0.0026 mg/l , 48 h Based on test results obtained with similar product.
Toxicity to aquatic plants lambda-cyhalothrin	:	ErC50 Pseudokirchneriella subcapitata (green algae), > 1 mg/l , 96 h EbC50 Pseudokirchneriella subcapitata (green algae), > 1 mg/l , 96 h

## 12.2 Persistence and degradability

Biodegradability			
lambda-cyhalothrin : Not biodegradable.			
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, toxic (PBT). This substance is not considered to be very persist cumulating (vPvB).	-		
12.6 Other advance official			

### 12.6 Other adverse effects

Other information	:	Classification of the product is based on the summation of the concentra-
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tions of classified components.

### 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 regula- tions.
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.

## **SECTION 14. TRANSPORT INFORMATION**

### Land transport (ADR/RID)

14.1 UN number: 14.2 UN proper shipping name: 14.3 Transport hazard class(es): 14.4 Packing group: Labels: 14.5 Environmental hazards : Sea transport(IMDG)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LAMBDA-CYHALOTHRIN) 9 III 9 Environmentally hazardous
<ul> <li>14.1 UN number:</li> <li>14.2 UN proper shipping name:</li> <li>14.3 Transport hazard class(es):</li> <li>14.4 Packing group:</li> <li>Labels:</li> <li>14.5 Environmental hazards :</li> <li>Air transport (IATA-DGR)</li> </ul>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LAMBDA-CYHALOTHRIN) 9 III 9 Marine pollutant
14.1 UN number: 14.2 UN proper shipping name: 14.3 Transport hazard class(es): 14.4 Packing group: Labels:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LAMBDA-CYHALOTHRIN) 9 III 9



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### 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-Labelling

Hazard pictograms

Signal word	:	Warning	
Hazard statements	:	H302 H316 H317 H332 H410	Harmful if swallowed. Causes mild skin irritation. May cause an allergic skin reaction. Harmful if inhaled. Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	P102 P261 P270 P280 P301 + P312 P330 P332 + P313 P333 + P313 P391 P501	<ul> <li>Keep out of reach of children.</li> <li>Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.</li> <li>Do not eat, drink or smoke when using this product Wear protective gloves/ protective clothing.</li> <li>IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.</li> <li>Rinse mouth.</li> <li>If skin irritation occurs: Get medical advice/ atten- tion.</li> <li>If skin irritation or rash occurs: Get medical advice/ attention.</li> <li>Collect spillage.</li> <li>Dispose of contents/ container to an approved waste disposal plant.</li> </ul>
Remarks	:	Where the GHS been chosen.	all GHS hazard classes and categories. contains options, the most conservative option has onal implementations of GHS may not implement all and categories.



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Hazardous components which must be listed on the label:

- lambda-cyhalothrin
- 1,2-benzisothiazol-3(2H)-one

### **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:

R21	Harmful in contact with skin.
R22	Harmful if swallowed.
R25	Toxic if swallowed.
R26	Very toxic by inhalation.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation by skin contact.
R50	Very toxic to aquatic organisms.
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.
Full text of H-Stat	ements referred to under sections 2 and 3.
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H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
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.

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.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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