

EC Safety Data Sheet

'KARATE 2.5 WG'

Version: 6

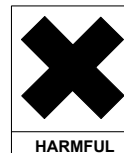
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1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name : 'KARATE 2.5 WG'

Company : Syngenta
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Product Description

A pyrethroid insecticide.

A granular formulation.

EC-No. : 415-130-7 Lambda-cyhalothrin

Hazardous ingredients	CAS-No.	Hazard symbols	Risk Phrases	Concentration
Lambda-cyhalothrin (Classification according to Directive 67/548/EEC)	91465-08-6	T+,N	R21-R25-R26-R50/5 3	25 g/kg
Talc	14807-96-6			< 500 g/kg

3. HAZARDS IDENTIFICATION

Harmful by inhalation and if swallowed.

Irritating to eyes and skin.

May cause sensitisation by skin contact. May cause tingling/numbness in exposed areas (paresthesia).

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

4. FIRST AID MEASURES

Eye contact : Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.

Skin contact : Take off immediately all contaminated clothing. Wash skin immediately with water, followed by soap and water. Such action is essential to minimise contact with skin. Contaminated clothing should be laundered before re-issue.

Inhalation : Remove patient from exposure, keep warm and at rest. Obtain medical attention as a precaution.

Ingestion : If swallowed seek medical advice immediately and show the

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container, label or this Data Sheet, if possible.
Do not induce vomiting.

Medical advice

If the amount of chemical is judged to be less than a lethal dose, observe the patient and treat symptomatically. If gastric lavage is considered necessary, prevent aspiration of gastric material. Consider administration of activated charcoal and a laxative.

5. FIRE FIGHTING MEASURES

Keep fire exposed containers cool by spraying with water.

Extinguishing media : For small fires, use foam, carbon dioxide or dry powder extinguishant. For large fires, use foam or water-fog; avoid use of water jet. Contain run-off water with, for example, temporary earth barriers.

Protective Equipment : A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Ensure suitable personal protection during removal of spillages. This means wearing a face mask that gives protection against toxic dusts, eye protection, chemically resistant gloves, boots and coveralls.
See Also Section 8

Clean up methods : Cover spillage with moist sand, soil or sawdust. Transfer to a container for disposal. Wash the spillage area with water. Washings must be prevented from entering surface water drains.

Spillages or uncontrolled discharges into water courses must be alerted to the appropriate regulatory body.

7. HANDLING AND STORAGE**HANDLING**

Read the label before use.

Safe handling advice

: Avoid contact with skin and eyes. Do not breathe dust. When using do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.

STORAGE

Safe storage advice : Keep in original containers, tightly closed, out of reach of children. Keep away from food, drink and animal feeding stuffs. Protect from extremes of temperature.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Personal protection**

When using this product refer to the label for details.

Where suitable engineering controls are not fitted or are inadequate, wear suitable protective equipment. When selecting personal protective equipment, users should consult their supplier to confirm that the equipment is suitable.

Respiratory protect. : Wear suitable respiratory protective equipment if exposure to high levels of material are likely. Respiratory protective equipment should conform to the appropriate EN standard.

Eye protection : Wear suitable eye/face protection conforming to EN 166

Hand protection : Wear suitable gloves conforming to EN 374 Suitable materials: nitrile rubber

Body protection : Wear suitable protective clothing.

Occupational exposure limits

Hazardous ingredient : Lambda-cyhalothrin Syngenta OEL
8 hr TWA 0.04 mg/m³
Sk : Can be absorbed through skin

Hazardous ingredient : Talc OES/HSE
(Respirable Dust)
8 hr TWA 1 mg/m³

Not applicable to field use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : granules
Colour : off-white
Odour : slight aromatic
Boiling point : Not available.
Melting point : Not available.
Flash point : does not flash
Autoignition : Not available.
temperature
Explosive properties : Non-explosive.
Vapour pressure : Not available.
Density : Not available.
Solubility : dispersible in/with water
pH-value (quant.) : Not available.
Partition coeff. : Not applicable

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Oxidizing properties : Non-oxidising

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION**ACUTE TOXICITY (LETHAL DOSES)**

Oral Median Lethal Dose rat (both genders)
: (calculated) > 586 mg/kg
Harmful if swallowed.

Dermal Median Lethal Dose rat
: (calculated) > 2000 mg/kg

Median Lethal Concentration Inhalation rat (both genders)
: > 2.059 mg/l 4 hours
Harmful by inhalation.

ACUTE TOXICITY (IRRITATION, SENSITISATION ETC.)

Eye Irritation
: Irritating to eyes.

Skin Irritation
: May cause mild skin irritation.

Skin Sensitisation - Buehler
: It is a moderate skin sensitiser in animal tests.

Other Effects
: In humans may cause tingling or numbness in exposed areas (paraesthesia). The effect may result from splash, aerosol or transfer to the face from contaminated gloves and hands. This effect is transient, lasting up to 24 hours.

CHRONIC TOXICOLOGICAL EFFECTS / LONG TERM EXPOSURE

Long Term Exposure : No long term risks to man are associated with this material when handled and used as directed on the label.

12. ECOLOGICAL INFORMATION**ENVIRONMENTAL FATE AND DISTRIBUTION**

Inform. applies to : Lambda-cyhalothrin
The substance is essentially insoluble in water.
The substance has low mobility in soil.

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BIOACCUMULATIVE POTENTIAL

Inform. applies to : Lambda-cyhalothrin
The substance has high potential for bioaccumulation. It is rapidly metabolised and excreted.

PERSISTENCE AND DEGRADATION

Inform. applies to : Lambda-cyhalothrin
There is evidence of rapid hydrolysis in soil.
There is evidence of photodegradation in soil.
There is evidence of photodegradation in water.
There is evidence of rapid biodegradation in soil and water.

ECOTOXICITY

This environmental hazard assessment is based on information available on similar products.

Toxicity to fish : LC50 96 hours Rainbow trout
: approx 44 µg/l

Toxicity to daphnia : EC50 48 hours Daphnia magna
: approx 44 µg/l

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

13. DISPOSAL CONSIDERATIONS

Do not contaminate ponds, waterways or ditches with chemical or used containers. Surplus material must be disposed of as detailed in the 'Guidelines for the avoidance, limitation and disposal of pesticide waste on the farm' GCPF, 1987. Empty containers should be washed and discarded. Empty containers should not be used for other purposes.
Disposal should be in accordance with local, state or national legislation.

14. TRANSPORT INFORMATION**Road transport ADR/RID**

UN No. : UN3077
Class-primary : 9 Miscellaneous Dangerous Goods
UN Pack. Group : III
Proper shipping name : 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, N.O.S., LAMBDA-CYHALOTHRIN MIXTURE

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Maritime transport IMDG

UN No. : UN3077
 Class-primary : 9 Miscellaneous Dangerous Goods
 UN Pack. Group : III
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
 N.O.S., (contains lambda-cyhalothrin 2.5%)
 Marine pollutant : Yes

Air transport ICAO/IATA

UN/ID No.: : UN3077
 Class-primary : 9 Miscellaneous Dangerous Goods
 UN Pack. Group : III
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
 N.O.S., (contains lambda-cyhalothrin 2.5%)

15. REGULATORY INFORMATION

Classification : **HARMFUL DANGEROUS FOR THE ENVIRONMENT**
 Hazard symbols : **Xn N**
 Risk Phrases : (R20/22) Harmful by inhalation and if swallowed.
 (R36/38) Irritating to eyes and 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.
 Safety Phrases : (S2) Keep out of the reach of children.
 (S13) Keep away from food, drink and animal feeding stuffs.
 (S20/21) When using, do not eat, drink or smoke.
 (S35) This material and its container must be disposed of in a safe way.
 (S36/37/39) Wear suitable protective clothing, gloves and eye/face protection.
 (S46) If swallowed, seek medical advice immediately and show this container or label.
 (S57) Use appropriate containment to avoid environmental contamination.
 Special label : To avoid risks to man and the environment, comply with the instructions for use.

This preparation is covered by the EEC Dangerous Preparations Directive. It has therefore been labelled in accordance with these regulations. Users should ensure that they comply with any relevant local, state or national legislation.

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16. OTHER INFORMATION

| Use: : A broad spectrum insecticide.

| Read the label before you buy: use pesticides safely.

| ' ' is the property of a Syngenta Group company.

| This data sheet was prepared in accordance with Directive 91/155/EEC (93/112/EC,
| 2001/58/EC)

| The information on this sheet is not a specification, it does not guarantee
| specific properties. The information is intended to provide general guidance as to
| health and safety based upon our knowledge of the handling, storage and use of the
| product. It is not applicable to unusual or non-standard uses of the product nor
| where instructions or recommendations are not followed.

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