



AUD-AD-140-1700
19-09-2021

رقم التسجيل :
التاريخ :

قطاع التنوع الغذائي
إدارة التنمية والصحة الزراعية

كيميائي

شهادة تسجيل مبيد

مبيد آفات صحة عامة (حشري)

تشهد وزارة التغير المناخي والبيئة بأن المبيد بالمواصفات التالية

الاسم التجاري للمبيد : Aqua K-Othrine

بلد التسجيل : إيطاليا

المواد الفعالة وتركيزها : Deltamethrin 20 g/L

CAS RN : 52918-63-5

صورة المستحضر : (Emulsion in water (EW

حجم العبوة : 1,5 لتر

بلد (التسجيل/المنشأ) والشركة المنتجة : فرنسا - Bayer CropScience AG

الشركة المحلية المستوردة : Agricultural Materials Co, LTD - WLL

تاريخ إصدار الشهادة : 19-09-2021 صالحة حتى : 24-09-2026

ملاحظات : لا يوجد

وجد مطابقا لنظام تسجيل المبيدات المتبع لديها وقد أعطيت له هذه الشهادة بناء على ذلك.

ملاحظات :

- يعاد تقييم المبيد كل خمس سنوات حتى يتم تجديد هذه الشهادة بعد ذلك.
- تلغى هذه الشهادة في حالة شطب أو سحب المبيد من قبل المنظمات والهيئات العالمية المختصة في تسجيل المبيد أو ثبت للوزارة تدهور المبيد أثناء فترة صلاحيته تحت الظروف البيئية للدولة أو ثبت أن لديه آثار جانبية ضارة

سددت الرسوم 3063.06 درهم

رقم إيصال الشهادة : 12483199731442423220

تاريخ إيصال الشهادة : 05-09-2021

مدير إدارة الشؤون البلدية

رمز التحقق : 182-3528



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Innovative water-based insecticide for space spray

Aqua **K-O**thrine®

Space spray insecticide, water-based and water-dilutable, highly effective against disease vectors and nuisance insects.



Aqua K-Othrine® is a space spray concentrate containing 2% deltamethrin. Deltamethrin is a highly active pyrethroid insecticide which will effectively flush insects out of their hiding places and kill through direct contact. Due to the high activity of deltamethrin Aqua K-Othrine® can be applied at extremely low dose rates of 0.5 - 1.0 g/ha of active ingredient to control public health insect pests including vectors of disease as well as nuisance flies and mosquitoes.

Aqua K-Othrine® utilises a unique patented anti-evaporant technology which makes it easy and convenient to use with reduced irritancy, odour and environmental impact.



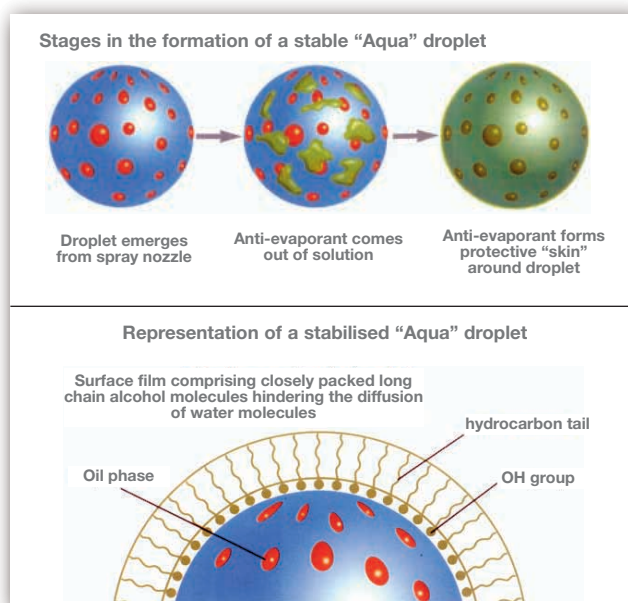
Bayer Environmental Science

Aqua K-Othrine®

Space spray insecticide, water-based and water-dilutable, highly effective against disease vectors and nuisance insects.

Patented Aqua technology

Aqua K-Othrine® formulation is based on water and this highlights the specific benefits of the formulation. The Film Forming Aqueous Spray Technology (FFAST) is a unique patented formulation system which allows the use of water as the diluent without the normal drawbacks of evaporation. The principle behind FFAST is simple yet extremely



effective. As each droplet is formed, long chain alcohol molecules rapidly migrate to the surface where they align to form a protective skin. This gives a sealed package of water-based insecticide, thereby retarding evaporation and greatly extending the effective range of the spray.

The key result of this is that Aqua K-Othrine® provides long-lasting effective droplets in all climatic conditions and is as effective as oil/diesel diluted space spray concentrates when sprayed at equivalent active ingredient rates.

Aqua K-Othrine® is easy to use, a user friendly concentrate producing a space spray that minimises flammability, smell, staining, paintwork damage, toxicological risk and pollution.

Water – the natural diluent

Water is the natural choice for the diluent of space sprays, particularly in the light of increased concern about the use of diesel. However, water-dilutable emulsifiable concentrate (EC) formulations may give poorer insecticidal performance in comparison with diesel or oil-diluted products. This is due to evapora-

tion of water (which is more volatile than diesel) from the spray, leaving droplets which are too small for efficient impact on the insect.

By using water as the main solvent, as well as the diluent, Aqua K-Othrine® can offer a number of specific benefits to the user. Aqua K-Othrine® is clean, easy to handle concentrate which is completely acceptable in use since it has virtually no odour.

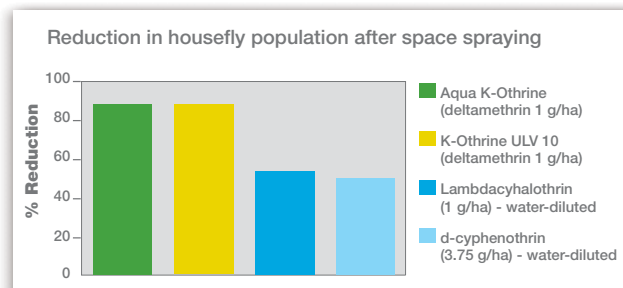
The water-based formulation eliminates the risk of fire, as well as reducing paint spotting and staining.

Water is the natural choice for the diluent because it is readily available and offers genuine cost savings to the user compared with oil or diesel diluents.

Impact on the environment

Aqua K-Othrine® significantly reduces environmental pollution because the formulation is water-based and water-diluted. The active ingredient deltamethrin is rapidly degraded in the natural environment and the low dosage rates of 0.5 to 1.0 g/ha again contribute to a reduction in environmental contamination.

Bio-efficacy



Trial results in Turkey

Method of use

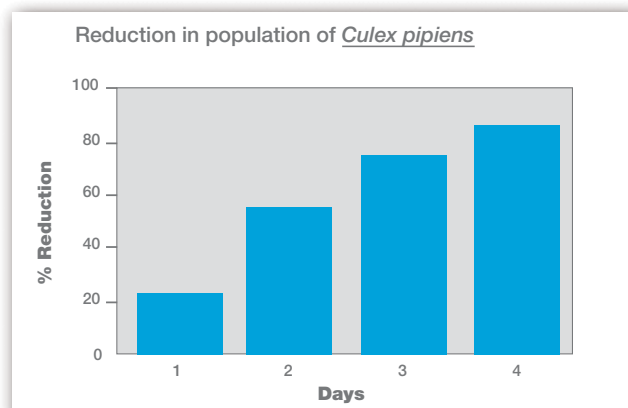
Aqua K-Othrine® is multi-functional in terms of application. Primarily, it has been designed for Ultra Low Volume (ULV) use but is also ideal for thermal fogging. Aqua K-Othrine® can be used for large scale conventional outdoor spraying as well as for indoor use.

For outdoor ULV spraying Aqua K-Othrine® should be diluted with water and applied using any ULV machine capable of producing droplets with a volume median diameter (VMD) in the range of 15-25 microns.

The product may also be applied through hand held thermal foggers for control of mosquitoes.

In case of indoor treatments, remove all pets and foodstuffs from the room and cover all surfaces used

for food preparation. Turn off the electricity and extinguish all naked flames.



Application rates

Insects	Application technique	Dilution Rate	Application rate
Flies	ULV outdoors	1 + 9	500 ml/ha
	Thermal fogging indoors	1 + 99	100-200 ml per house or 1l / 2000 m ³
Mosquitoes	ULV outdoors	1 + 9	500 ml/ha
	Thermal fogging indoors	1 + 99	100-200 ml / house or 1l / 2000 m ³

Toxicity

Aqua K-Othrine®		
Oral (rat)	LD ₅₀ (mg/kg bw)	304 - 500
Dermal (rat)	LD ₅₀ (mg/kg bw)	> 5 000
Inhalation (rat)	LC ₅₀ (mg/l)	> 5.8
Skin irritation (rabbit)	Slight irritant effect	
Eye irritation (rabbit)	Slight irritant effect	
Skin sensitization (guinea pig)	Non sensitizing	

Environmental protection

- Prepare only the amount of product required for immediate usage. Do not store diluted material.
- Do not dispose of any excess diluted product and rinsings of dip containers into waterways, ponds, streams etc. Can be landfilled or incinerated in compliance with local regulations.

Soil

• Persistence and degradation

Deltamethrin is rapidly degraded in most soils with DT₅₀ values of approximately 3 weeks.

• Mobility:

Deltamethrin is absorbed onto soil particles very rapidly and with high adsorption constants. The desorption is very low, therefore the risk of leaching of the parent compound into deep soil layers can be excluded.

Ecotoxicity of the active ingredient:

Trout (96h)	LC ₅₀ (µg/l)	= 0.91
Daphnia (48h)	EC ₅₀ (µg/l)	= 0,56
Quail	LD ₅₀ (mg/Kg)	> 2 250
Duck	LD ₅₀ (mg/Kg)	> 4 640
Earthworm (14d)	LC ₅₀ (mg/kg)	> 1290

Ecotoxicity Aqua K-Othrine:

Fish (96h) Rainbow trout	LC ₅₀ (mg/L)	0.324
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Our deltamethrin has been evaluated by the World Health Organization and complies with the WHO/SIT/24.R2 specifications, providing the user with maximum security of product quality

Safety Advice

- Wear suitable protective clothing when handling the product (e.g. coveralls, eye protection (faceshield), and gloves and when applying the product (e.g. coveralls, gloves, goggles and spray mask).
- Avoid working in spray mist or wear a spray mask and suitable protective clothing.
- Wash hands and exposed parts before eating, drinking or smoking and after work.
- When spraying indoors exclude persons and animals during treatment, and ventilate treated areas thoroughly after treatment.
- Wash splashes from skin or eyes immediately with plenty of water.
- Mechanical sprayers can be noisy. The use of ear protection is recommended when spraying indoors or in other enclosed places.
- Do not spray the moving parts of any machinery, electric motors and switchgear.
- Do not apply light oil based sprays in the presence of naked flames, hot surfaces or unprotected electrical equipment.
- Remove heavily contaminated clothing immediately and wash before re-use.
- The user should obtain hazard information on the diluent (e.g. diesel oil) and take necessary precautions.
- Do not apply directly to surfaces on which food is stored, prepared or eaten.
- Protect food, food-preparing equipment and eating utensils from contamination during application.
- Toxic to fish and aquatic life. Do not contaminate ponds, waterways or ditches with chemical or used container.
- Keep out of reach of children.
- Keep only in original container, tightly closed, in a safe place.
- Wash out used container thoroughly and dispose of safely.



First Aid measures in case of exposure

Contact with skin:

Carefully remove contaminated clothes and shoes. Wash with soap and water. Apply Vitamin E cream or simple lotion. When symptoms persist or in all cases of doubt, seek medical advice immediately.

Contact with eyes:

Rinse immediately with plenty of water for at least 15 minutes. In case of persistent inflammation, seek advice from an ophthalmologist.

In case of inhalation:

Remove to fresh air. Keep patient at rest. If symptoms persist, call a physician.

In case of ingestion:

Wash out mouth with water. Do not induce vomiting. Keep patient at rest. Seek medical advice immediately.

Local treatment:

Initial treatment should be symptomatic and supportive. After eye contact: instillation of local anaesthetic drops e.g. 1% Amethocaine Hydrochloride eye drops. Give analgesics as necessary.

Systemic treatment:

Endotracheal intubation should be done and gastric lavage performed, followed by administration of charcoal.

Monitoring of respiratory and cardiac functions ECG - monitoring (Electrocardiogram)

Check for pulmonary oedema in event of inhalation.

Keep airway clear, administer artificial respiration if necessary. Against convulsions: Give diazepam: for adults 5-10 mg intravenously as necessary until fully sedated ; for children 2.5 mg i.v.

There is no antidote.

Contraindication: atropine

Contraindication: derivatives of adrenaline

Recovery: Spontaneous.



...Your Bayer Environmental Science...
local contact



Bayer Environmental Science

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A Business Group of
Bayer CropScience



AQUA K-OTHRIN EW20 4X5L BOT HU

Version 4 / EU
102000025896

1/10
Revision Date: 24.09.2013
Print Date: 15.06.2014

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name AQUA K-OTHRIN EW20 4X5L BOT HU
Product code (UVP) 80234791

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

Supplier Bayer CropScience AG
Alfred-Nobel-Straße 50
40789 Monheim am Rhein
Germany
Telefax +49(0)2173-38-7394
Responsible Department Product Safety and Specification Management
+49(0)2173-38-3409/3685 (during business hours only)
Email: BCS-SDS@bayer.com

1.4 Emergency telephone no.

Emergency telephone no. Global Incident Response Hotline
+1 (760) 476-3964 (Company 3E for Bayer CropScience)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Acute toxicity: Category 4

H302 Harmful if swallowed.

Aspiration hazard: Category 1

H304 May be fatal if swallowed and enters airways.

Skin sensitisation: Category 1

H317 May cause an allergic skin reaction.

Acute aquatic toxicity: Category 1

H400 Very toxic to aquatic life.

Chronic aquatic toxicity: Category 1

H410 Very toxic to aquatic life with long lasting effects.

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

Xn Harmful, R22

Xi Irritant, R43

N Dangerous for the environment, R50/53

Xn Harmful, R65

R66

2.2 Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

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Hazard label for supply/use required.

Hazardous components which must be listed on the label:

- Deltamethrin
- Solvent Naphtha (petroleum), heavy aromatic

**Signal word:** Danger**Hazard statements**

H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H317 May cause an allergic skin reaction.
 H410 Very toxic to aquatic life with long lasting effects.
 EUH066 Repeated exposure may cause skin dryness or cracking.
 EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection.
 P309 + P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
 P501 Dispose of contents/container in accordance with local regulation.

2.3 Other hazards

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2 Mixtures****Chemical nature**

Emulsion, oil in water (EW)
 Deltamethrin 20 g/l

Hazardous components

R-phrases according to EC directive 67/548/EEC
 Hazard statements according to Regulation (EC) No. 1907/2006

Name	CAS-No. / EC-No.	Classification		Conc. [%]
		EC Directive 67/548/EEC	Regulation (EC) No 1272/2008	
Deltamethrin	52918-63-5 258-256-6	T; R23/25 N; R50/53	Acute Tox. 3, H331 Acute Tox. 3, H301 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	2,00
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5 265-198-5	Xn; R65 R66 N; R51/53	Asp. Tox. 1, H304 Aquatic Chronic 2, H411	> 2,50 - < 25,00
Stearyl alcohol,	9005-00-9	Xi; R41	Eye Dam. 1, H318	> 1,00 - <

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ethoxylated	500-017-8		5,00
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Further information

Deltamethrin	52918-63-5	M-Factor: 1.000.000 (acute)
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For the full text of the R-phrases/ Hazard statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

General advice	Remove contaminated clothing immediately and dispose of safely.
Inhalation	Move the victim to fresh air and keep at rest. Call a physician or poison control center immediately.
Skin contact	Immediately wash with plenty of soap and water for at least 15 minutes. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. In case of skin irritation, application of oils or lotions containing vitamin E may be considered. If symptoms persist, call a physician.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. Apply soothing eye drops, if needed anaesthetic eye drops. Get medical attention if irritation develops and persists.
Ingestion	Rinse out mouth and give water in small sips to drink. Do NOT induce vomiting. Risk of product entering the lungs on vomiting after ingestion. Call a physician or poison control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	Local: Skin and eye paraesthesia which may be severe, Usually transient with resolution within 24 hours, Skin, eye and mucous membrane irritation, Cough, Sneezing Systemic: Discomfort in the chest, Tachycardia, Hypotension, Nausea, Abdominal pain, Diarrhoea, Vomiting, Dizziness, Blurred vision, Headache, Anorexia, Somnolence, Coma, Convulsions, Tremors, Prostration, Airway hyperreaction, Pulmonary oedema, Palpitation, Muscular fasciculation, Apathy
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4.3 Indication of any immediate medical attention and special treatment needed

Risks	This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning.
Treatment	Local treatment: Initial treatment: symptomatic. Systemic treatment: Initial treatment: symptomatic. Monitor: respiratory and cardiac functions. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. Keep respiratory tract clear. Oxygen or artificial respiration if needed. In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens. If not effective, phenobarbital may be used. Contraindication: atropine. Contraindication: derivatives of adrenaline. There is no specific antidote.

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Recovery is spontaneous and without sequelae.

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

Suitable	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable	High volume water jet

5.2 Special hazards arising from the substance or mixture	Dangerous gases are evolved in the event of a fire.
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5.3 Advice for firefighters

Special protective equipment for fire-fighters	In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.
Further information	Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Whenever possible, contain fire-fighting water by diking area with sand or earth.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Precautions	Keep people away from and upwind of spill/leak. Avoid contact with spilled product or contaminated surfaces. When dealing with a spillage do not eat, drink or smoke.
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6.2 Environmental precautions	Do not allow to get into surface water, drains and ground water.
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6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Clean floors and contaminated objects with plenty of water.
Additional advice	Check also for any local site procedures.

6.4 Reference to other sections	Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.
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SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

Advice on safe handling	No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. Ensure adequate ventilation.
Advice on protection against fire and explosion	Keep away from heat and sources of ignition. Vapours may form explosive mixture with air.
Hygiene measures	When using, do not eat, drink or smoke. Remove soiled clothing immediately and clean thoroughly before using again. Contaminated

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work clothing should not be allowed out of the workplace. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Wash hands immediately after work, if necessary take a shower.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers Store in a place accessible by authorized persons only. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight. Protect from freezing.

Advice on common storage Keep away from food, drink and animal feedingstuffs.

Suitable materials Coex EVOH (1000L IBC)

7.3 Specific end uses Refer to the label and/or leaflet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Deltamethrin	52918-63-5	0,02 mg/m ³ (TWA)		OES BCS*

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

Additional advice

Observe: Exposure Limits In Air, Group 3: 100 mg/m³/ 20 ppm. (aromatic-rich hydrocarbon mixes with > 25% aromatics TRGS 901, No. 72).

8.2 Exposure controls**Personal protective equipment**

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection Respiratory protection is not required under anticipated circumstances of exposure.
Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

Hand protection Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness of 0,4 mm). Wash when contaminated and dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.

Eye protection Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

Skin and body protection Wear standard coveralls and Category 3 Type 4 suit.
If there is a risk of significant exposure, consider a higher protective type suit.
Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

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Revision Date: 24.09.2013
Print Date: 15.06.2014**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Form	suspension, opaque
Colour	white
Odour	strong, characteristic
pH	3,5 - 5,0 at 100 % (23 °C) 4,5 - 7,5 at 1 % (23 °C) (deionized water)
Ignition temperature	> 450 °C The data refer to solvent naphtha petroleum.
Upper explosion limit	7,00 %(V) The data refer to solvent naphtha petroleum.
Lower explosion limit	0,8 %(V) The data refer to solvent naphtha petroleum.
Relative vapour density	1,00 The data refer to solvent naphtha petroleum.
Density	ca. 1,00 g/cm ³ at 20 °C
Water solubility	miscible
Partition coefficient: n-octanol/water	Deltamethrin: log Pow: 4,6 at 25 °C
Viscosity, dynamic	<= 30 mPa.s at 20 °C Velocity gradient 7,5 /s
Viscosity, kinematic	ca. 3 mm ² /s at 40 °C
Surface tension	ca. 25,7 mN/m at 40 °C
9.2 Other information	Further safety related physical-chemical data are not known.

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

Thermal decomposition Stable under normal conditions.

10.2 Chemical stability Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions No hazardous reactions when stored and handled according to prescribed instructions.

10.4 Conditions to avoid Extremes of temperature and direct sunlight.

10.5 Incompatible materials Store only in the original container.

10.6 Hazardous decomposition products No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

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Acute oral toxicity	LD50 (rat) 304 mg/kg Test conducted with a similar formulation.
Acute inhalation toxicity	LC50 (rat) > 5,80 mg/l Exposure time: 4 h Highest attainable concentration. Test conducted with a similar formulation.
Acute dermal toxicity	LD50 (rat) > 5.000 mg/kg Test conducted with a similar formulation.
Skin irritation	Slight irritant effect - does not require labelling. (rabbit) Test conducted with a similar formulation.
Eye irritation	Slight irritant effect - does not require labelling. (rabbit) Test conducted with a similar formulation.
Sensitisation	Non-sensitizing. (guinea pig) OECD Test Guideline 406, Buehler test Test conducted with a similar formulation. Sensitising (mouse) OECD Test Guideline 429, local lymph node assay (LLNA)

Assessment repeated dose toxicity

Deltamethrin caused neurobehavioral effects and/or neuropathological changes in animal studies. The toxic effects of Deltamethrin are related to transient hyperactivity typical for pyrethroid neurotoxicity.

Assessment Mutagenicity

Deltamethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment Carcinogenicity

Deltamethrin was not carcinogenic in lifetime feeding studies in rats and mice.

Assessment toxicity to reproduction

Deltamethrin did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity

Deltamethrin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Deltamethrin are related to maternal toxicity.

Further information

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)) 0,422 mg/l Exposure time: 96 h Test conducted with a similar formulation.
Toxicity to aquatic invertebrates	EC50 (Water flea (Daphnia magna)) 0,00056 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient deltamethrin.
Toxicity to aquatic plants	EC50 (Algae) > 9,1 mg/l Exposure time: 72 h The value mentioned relates to the active ingredient deltamethrin.

**AQUA K-OTHRIN EW20 4X5L BOT HU**Version 4 / EU
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not rapidly biodegradable**Koc** Deltamethrin: Koc: 10240000**12.3 Bioaccumulative potential****Bioaccumulation** Deltamethrin: Bioconcentration factor (BCF) 1.400
Does not bioaccumulate.**12.4 Mobility in soil****Mobility in soil** Deltamethrin: Immobile in soil**12.5 Results of PBT and vPvB assessment****PBT and vPvB assessment** Deltamethrin: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).**12.6 Other adverse effects****Additional ecological information** No other effects to be mentioned.**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****Product** In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.**Contaminated packaging** Triple rinse containers.
Do not re-use empty containers.
Not completely emptied packagings should be disposed of as hazardous waste.**Waste key for the unused product** 020108 agrochemical waste containing dangerous substances**SECTION 14: TRANSPORT INFORMATION****ADR/RID/ADN**

14.1 UN number	3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DELTAMETHRIN SOLUTION)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environm. Hazardous Mark	YES
Hazard no.	90
Tunnel Code	E

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

IMDG

14.1 UN number	3082
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14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DELTAMETHRIN SOLUTION)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Marine pollutant	YES

IATA

14.1 UN number	3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DELTAMETHRIN SOLUTION)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environm. Hazardous Mark	YES

14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

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

No transport in bulk according to the IBC Code.

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Further information**

WHO-classification: II (Moderately hazardous)

15.2 Chemical Safety Assessment

A chemical safety assessment is not required.

SECTION 16: OTHER INFORMATION**Text of R-phrases mentioned in Section 3**

R23/25	Toxic by inhalation and if swallowed.
R41	Risk of serious damage to eyes.
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.

Text of the hazard statements mentioned in Section 3

H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H318	Causes serious eye damage.
H331	Toxic 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 contained within this Safety Data Sheet is in accordance with the guidelines established



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by Regulation (EU) 1907/2006 and Regulation (EU) 453/2010 amending Regulation (EU) No 1907/2006 (and any subsequent amendments). This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

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