# Aqua-K-Othrine® Insecticide Space-Spray Concentrate

1/12 Revision Date: 07.12.2020

Version 1/AUS 102000011793 Print Date: 07.12.2020

#### SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Trade name Aqua-K-Othrine® Insecticide Space-Spray Concentrate

Product code (UVP) 06477399

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

Insecticide

1.3 Details of the supplier of the safety data sheet

**Supplier** Bayer Cropscience Pty Ltd

ABN 87 000 226 022 Level 1, 8 Redfern Road 3123 Hawthorn East

Victoria Australia

(03) 9248 6888 **Telephone Telefax** (03) 9248 6800

**Responsible Department** 1800 804 479 Technical Information Service

Website www.es.bayer.com.au

1.4 Emergency telephone no.

Emergency telephone no. 1800 033 111 IXOM Operations Pty Ltd

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

#### Classification in accordance with Australian GHS Regulation

Acute toxicity: Category 4

Harmful if swallowed. H302

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.

#### 2.2 Label elements

#### Labelling according to specific Australian legislation

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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.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

P261 Avoid breathing mist.

P264 Wash face thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/ physician.

P330 Rinse mouth.

P331 Do NOT induce vomiting.

P302 + P352 IF ON SKIN: Wash with plenty of water/ soap.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local regulation.

#### 2.3 Other hazards

No other hazards known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Chemical nature**

Deltamethrin 20 g/l

Emulsion, oil in water (EW)

Chemical name	CAS-No.	Concentration [%]
Deltamethrin	52918-63-5	2.00
Hydrocarbons, C10-C13, aromatics, <1% naphthalene		> 1.00 - < 25.00
Stearyl alcohol, ethoxylated	9005-00-9	> 1.00 - < 3.00
1,2-Benzisothiazol-3(2H)-one	2634-33-5	> 0.005 - < 0.05
Other ingredients (non-hazardous) to 100%		

#### **SECTION 4. FIRST AID MEASURES**



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If poisoning occurs, immediately contact a doctor or Poisons Information Centre (telephone 13 11 26), and follow the advice given. Show this Safety Data Sheet to the doctor.

#### 4.1 Description of first aid measures

**General advice** Move out of dangerous area. Place and transport victim in stable

position (lying sideways). Remove contaminated clothing immediately

and dispose of safely.

**Inhalation** Move to fresh air. Keep patient warm and 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. Do not leave victim unattended. 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, eve and mucous

membrane irritation, Cough, Sneezing

Systemic:, discomfort in the chest, tachycardia, Hypotension, Nausea, Abdominal pain, Diarrhoea, Vomiting, Blurred vision, Headache, Anorexia, Somnolence, Coma, Convulsions, Tremors, Prostration, Airway hyperreaction, Pulmonary oedema, Palpitation, Muscular

fasciculation, Apathy, Dizziness

#### 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** 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. Recovery is spontaneous and without

sequelae.

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> In case of skin irritation, application of oils or lotions containing vitamin E may be considered.

#### SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable Use water spray, alcohol-resistant foam, dry chemical or carbon

dioxide.

High volume water jet Unsuitable

5.2 Special hazards arising

from the substance or

mixture

Dangerous gases are evolved in the event of a fire.

5.3 Advice for firefighters

Special protective

equipment for firefighters

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.

**Hazchem Code** •3Z

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

**Precautions** Avoid contact with spilled product or contaminated surfaces. Remove

> all sources of ignition. When dealing with a spillage do not eat, drink or smoke. Use personal protective equipment. Keep people away

from and upwind of spill/leak.

6.2 Environmental

precautions

Retain and dispose of contaminated wash water. Do not allow to get

into surface water, drains and ground water. If the product

contaminates rivers and lakes or drains inform respective authorities.

#### 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). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in

suitable, closed containers for disposal.

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** Use only in area provided with appropriate exhaust 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** Avoid contact with skin, eyes and clothing. Keep working clothes

separately. Wash hands before breaks and immediately after handling the product. Remove soiled clothing immediately and clean thoroughly

before using again. Garments that cannot be cleaned must be

destroyed (burnt).

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

Requirements for storage areas and containers

Keep out of the reach of children. 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.

#### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Deltamethrin	52918-63-5	0.01 mg/m3		OES BCS*
		(TWA)		

<sup>\*</sup>OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

#### 8.2 Exposure controls

**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 Please observe the instructions regarding permeability and

breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the

contact time.

Wash gloves when contaminated. 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.

Material Nitrile rubber

Material Nitrile rubber Rate of permeability > 480 min



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> Glove thickness > 0.4 mm

Directive Protective gloves complying with EN

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

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.

In normal use and handling conditions please refer to the label **General protective measures** 

and/or leaflet. In all other cases the above mentioned

recommendations would apply.

**Engineering Controls** 

Advice on safe handling Use only in area provided with appropriate exhaust ventilation.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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

**Form** suspension, opaque

Colour white

Odour strong, characteristic **Odour Threshold** No data available

3.5 - 5.0 (100 %) (23 °C) pН

4.5 - 7.5 (1 %) (23 °C) (deionized water)

Melting point/range No data available **Boiling Point** No data available Flash point No data available **Flammability** No data available

**Auto-ignition temperature** > 450 °C

The data refer to solvent naphtha petroleum.

Minimum ignition energy No data available Self-accelarating No data available

decomposition temperature (SADT)

**Upper explosion limit** 

7.00 %(V)

The data refer to solvent naphtha petroleum.

Lower explosion limit

The data refer to solvent naphtha petroleum.

Vapour pressure No data available

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**Evaporation rate** 

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Relative vapour density 1.00

The data refer to solvent naphtha petroleum.

Relative density No data available

**Density** ca.  $1.00 \text{ g/cm}^3 (20 \text{ °C})$ 

Water solubility miscible

Partition coefficient: n-

octanol/water

Deltamethrin: log Pow: 6.4 (25 °C)

Viscosity, dynamic <= 30 mPa.s (20 °C)

Velocity gradient 7.5 /s

No data available

Viscosity, kinematic ca. 3 mm<sup>2</sup>/s (40 °C)

Surface tension ca. 25.7 mN/m (40  $^{\circ}$ C)

Oxidizing properties No data available

Explosivity No data available

**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**No hazardous reactions when stored and handled according to

**hazardous reactions** 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

Acute oral toxicity LD50 (Rat) 304 mg/kg

Acute inhalation toxicity LC50 (Rat) > 5.80 mg/l
Exposure time: 4 h

Highest attainable concentration.

Acute dermal toxicity LD50 (Rat) > 5,000 mg/kg

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**Skin corrosion/irritation** Slight irritant effect - does not require labelling. (Rabbit)

Serious eye damage/eye

irritation

Slight irritant effect - does not require labelling. (Rabbit)

**Respiratory or skin** Skin: Non-sensitizing. (Guinea pig) **sensitisation** OECD Test Guideline 406, Buehler test

Skin: Sensitising (Mouse)

OECD Test Guideline 429, local lymph node assay (LLNA)

Test conducted with a similar formulation.

#### **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.

#### Assessment STOT Specific target organ toxicity – single exposure

Deltamethrin: Based on available data, the classification criteria are not met.

#### Assessment STOT Specific target organ toxicity - repeated exposure

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

#### **Aspiration hazard**

May be fatal if swallowed and enters airways.

#### Early onset symptoms related to exposure

Refer to Section 4

#### Delayed health effects from exposure

Refer to Section 11

#### Exposure levels and health effects

Refer to Section 4

#### Interactive effects

Not known

#### When specific chemical data is not available

Not applicable

#### Mixture of chemicals

Refer to Section 2.1

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#### **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** EC50 (Daphnia magna (Water flea)) 0.0131 μg/l

**invertebrates** 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: 96 h

The value mentioned relates to the active ingredient deltamethrin.

12.2 Persistence and degradability

**Biodegradability** Deltamethrin:

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 Other adverse effects

Additional ecological

information

No further ecological information is available.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

Triple-rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. Do not burn empty containers or product.

#### **SECTION 14. TRANSPORT INFORMATION**

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**ADG** 

UN number 3082
Transport hazard class(es) 9
Subsidiary Risk None
Packaging group III

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(DELTAMETHRIN SOLUTION)

Hazchem Code •3Z

AU01: Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in;

a) packagings that do not incorporate a receptacle exceeding 500 kg(L); or

b) IBCs

#### **IMDG**

UN number 3082
Transport hazard class(es) 9
Subsidiary Risk None
Packaging group III
Marine pollutant YES

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(DELTAMETHRIN SOLUTION)

**IATA** 

UN number 3082
Transport hazard class(es) 9
Subsidiary Risk None
Packaging group III
Environm. Hazardous Mark YES

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(DELTAMETHRIN SOLUTION)

#### **SECTION 15. REGULATORY INFORMATION**

Registered according to the Agricultural and Veterinary Chemicals Code Act 1994 Australian Pesticides and Veterinary Medicines Authority approval number: 63246

#### SUSMP classification (Poison Schedule)

Schedule 6 (Standard for the Uniform Scheduling of Medicines and Poisons)

#### **SECTION 16. OTHER INFORMATION**

**Trademark information** Aqua-K-Othrine® is a Registered Trademark of the Bayer Group.

#### Abbreviations and acronyms

ADN European Agreement concerning the International Carriage of Dangerous Goods by



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**Inland Waterways** 

ADR European Agreement concerning the International Carriage of Dangerous Goods by

Road

ATE Acute toxicity estimate

AU OEL Australia. OELs. (Adopted National Exposure Standards for Atmospheric

Contaminants in the Occupational Environment)

CAS-Nr. Chemical Abstracts Service number

CEILING Ceiling Limit Value Conc. Concentration

EC-No. European community number ECx Effective concentration to x %

EINECS European inventory of existing commercial substances

ELINCS European list of notified chemical substances

EN European Standard EU European Union

IATA International Air Transport Association

IBC International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk (IBC Code)
Inhibition concentration to x %

IMDG International Maritime Dangerous Goods

LCx Lethal concentration to x %

LDx Lethal dose to x %

**ICx** 

LOEC/LOEL Lowest observed effect concentration/level

MARPOL: International Convention for the prevention of marine pollution from ships

N.O.S. Not otherwise specified

NOEC/NOEL No observed effect concentration/level

OECD Organization for Economic Co-operation and Development

OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure

Standard"

PEAK: Exposure Standard - Peak means a maximum or peak airborne concentration

of a particular substance determined over the shortest analytically practicable period of

time which does not exceed 15 minutes.

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

SK-SEN Skin sensitiser

SKIN\_DES: Skin notation: Absorption through the skin may be a significant source of

exposure.

STEL: Exposure standard - short term exposure limit (STEL): A 15 minute TWA

exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the

STEL.

TWA: Exposure standard - time-weighted average (TWA): The average airborne

concentration of a particular substance when calculated over a normal eight-hour

working day, for a five-day working week.

TWA Time weighted average

UN United Nations

WHO World health organisation

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.



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If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

**Reason for Revision:** Safety Data Sheet according to Regulation (EU) No. 2015/830. The

following sections have been revised: Section 2: Hazards Identification.

Section 3: Composition / Information on Ingredients.

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