

Summary of product characteristics for a biocidal product

Product name: K-Othrine WG 250

Product type(s): PT18 - Insecticides, acaricides and products to control other arthropods (Pest control)

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Authorisation number: 2019-03-08-B06

R4BP 3 asset reference number: MT-0020396-0000

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Administrative information

1.1. Trade names of the product

K-Othrine WG 250

1.2. Authorisation holder

Name and address of the authorisation holder	Name	Bayer CropScience S.r.l.
	Address	Viale Certosa 130 20156 Milano Italy
Authorisation number	2019-03-08-B06	
R4BP 3 asset reference number	MT-0020396-0000	
Date of the authorisation	14/08/2018	
Expiry date of the authorisation	26/01/2027	

1.3. Manufacturer(s) of the biocidal products

Name of the manufacturer	Bayer S.A.S., Bayer CropScience, Environmental Science Division
Address of the manufacturer	16 rue Jean-Marie Leclair, CS 90106 69266 Lyon Cedex 09 France
Location of manufacturing sites	Bayer S.A.S., Bayer CropScience, 1 avenue Edouard Herriot - Limas - BP 442 69656 Villefranche-sur-Saône France
	SBM Formulation, ZI Avenue Jean Foucault, CS621 34500 Béziers France
	Bayer AG, Industriepark Höchst (Gebäude K 607) 65926 Frankfurt Germany
	Kwizda Agro GmbH, Laaer Bundesstraße 2100 Leobendorf Austria
	Iris S.A., Z.I. Le Barthas 30340 Salindres France
	Bayer CropScience S.L, Av. Comarques del País Valencià 26746930 Quart de Poblet, Valencia Spain
	Bayer CropScience S.r.l., viale delle Industrie 924040 Filago (Bergamo Italy

1.4. Manufacturer(s) of the active substance(s)

Active substance	24 - deltamethrin
Name of the manufacturer	Bayer AG
Address of the manufacturer	Alfred-Nobel-Str. 50 40789 Monheim am Rhein Germany
Location of manufacturing sites	Bayer Vapi Pvt. Ltd, Plot No. 306/3, II phase 396195 GIDC, Vapi India

2. Product composition and formulation

2.1. Qualitative and quantitative information on the composition of the biocidal product

Common name	IUPAC name	Function	CAS number	EC number	Content (%)
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Common name	IUPAC name	Function	CAS number	EC number	Content (%)
deltamethrin	(S)-a-cyano-3-phenoxybenzyl (1R,3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropane carboxylate	Active Substance	52918-63-5	258-256-6	25

2.2. Type of formulation

WG - Water dispersible granules

3. Hazard and precautionary statements

Hazard statements

Very toxic to aquatic life with long lasting effects.
Harmful if inhaled.

Precautionary statements

Avoid release to the environment.
Dispose of contents to in accordance to local regulation.
Collect spillage.
Avoid breathing spray.

4. Authorised use(s)

4.1 Use description

Use 1 - For control of crawling insects, chronic infestations - professional users - indoors

Product type

PT18 - Insecticides, acaricides and products to control other arthropods (Pest control)

Where relevant, an exact description of the authorised use

Insecticide
Chronic infestation: A situation where treatment have already been performed but a complete control of the insects have not been achieved, or an extensive infestation where the risk for re-infestation is deemed to be high.

Target organism(s) (including development stage)

Scientific name:
Common name: Crawling insects
Development stage: Adults

Scientific name: Blattodea:
Common name: Cockroaches
Development stage: Adults

Field(s) of use

Indoor

Use in buildings including houses, blocks of flats, hotels, restaurants, hospitals, food factories, warehouses. The product is for hygiene use only and must not be used to protect plants and plant products from damage caused by insects.

Application method(s)

Method: Spraying
Detailed description:

-

Application rate(s) and frequencies

Application Rate: Dilute 5 g of product with water to obtain a total amount of 5 Liters of solution for 100 m² .
Dilution (%): 0.1
Number and timing of application:
The residual life of the deposit will last up to 4 weeks, depending upon the cleanliness and nature of the surface to which it is applied. Repeat treatment may be carried out as necessary, up to maximum of eleven applications per year.

Category(ies) of users

Trained professional

Professional

Pack sizes and packaging material

Sachet, Foil lined sachets (PE, Al, or PET) , 2.5 g in cardboard box (up to 500 g).

Foil lined sachets (PE, Al or PET) contained in cardboard box (up to 500 g).

Bottle, Plastic: HDPE , Up to 1 liter.

4.1.1 Use-specific instructions for use

For control of crawling insects on areas non subject to wet cleaning:

- Spray crack and crevices where insects might find cover. Pay particular attention to doors, windows, cracks and crevices and other entry points usually used by insects, as well as areas behind or under machinery, kitchen equipment or pipework.
- When infested, spray bed frames and mattresses and crack and crevices in adjacent wall and floor areas. Spray infested carpets paying particular attention to edges of fitted carpets.

For control of crawling insects on areas subject to wet cleaning:

- Spray as crack and crevices treatment only.

Limitations:

- Invading adult foragers of outdoor nesting ants such as *Lasius niger* are killed but their nest cannot be expected to be controlled by use of this product. Indoor nesting ants such as *Monomorium pharaonis* should be treated with a bait product to prevent formation of satellite nests.

4.1.2 Use-specific risk mitigation measures

- Do not spray directly on people, animals or bedding.
 - Do not spray bed linen or other materials which come into direct contact with occupants of the bed or which might be washed.
- Do not use to treat mattresses in cots where infants sleep.
- Remove or cover all fish tanks and bowls before application.

4.1.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

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4.1.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

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4.1.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

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4.2 Use description

Use 2 - For control of crawling insects, localised infestations - professional users - indoors

Product type

PT18 - Insecticides, acaricides and products to control other arthropods (Pest control)

Where relevant, an exact description of the authorised use

Insecticide
Localised infestation: An occasional infestation where there is no reason to expect re-infestation or believe that the insects will not be controlled with the lower dose.

Target organism(s) (including development stage)

Scientific name:
 Common name: Crawling insects
 Development stage: Adults

Scientific name: Blattodea:
 Common name: Cockroaches
 Development stage: Adults

Field(s) of use

Indoor

Use in buildings including houses, blocks of flats, hotels, restaurants, hospitals, food factories, warehouses. The product is for hygiene use only and must not be used to protect plants and plant products from damage caused by insects.

Application method(s)

Method: Spraying
 Detailed description:

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Application rate(s) and frequencies

Application Rate: Dilute 2.5 g of product with water to obtain a total amount of 5 Liters of solution for 100 m² .
 Dilution (%): 0.05
 Number and timing of application:

	The residual life of the deposit will last up to 4 weeks, depending upon the cleanliness and nature of the surface to which it is applied. Repeat treatment may be carried out as necessary, up to maximum of eleven applications per year.
Category(ies) of users	Trained professional Professional
Pack sizes and packaging material	Sachet, Foil lined sachets (PE, Al or PET) , 2.5 g in cardboard box (up to 500 g). Foil lined sachets (PE, Al or PET) contained in cardboard box (up to 500 g). Bottle, Plastic: HDPE , Up to 1 liter.

4.2.1 Use-specific instructions for use

For control of crawling insects on areas non subject to wet cleaning:

- Spray crack and crevices where insects might find cover. Pay particular attention to doors, windows, cracks and crevices and other entry points usually used by insects, as well as areas behind or under machinery, kitchen equipment or pipework.
- When infested, spray bed frames and mattresses and crack and crevices in adjacent wall and floor areas. Spray infested carpets paying particular attention to edges of fitted carpets.

For control of crawling insects on areas subject to wet cleaning:

- Spray as crack and crevices treatment only.

Limitations:

- Invading adult foragers of outdoor nesting ants such as *Lasius niger* are killed but their nest cannot be expected to be controlled by use of this product. Indoor nesting ants such as *Monomorium pharaonis* should be treated with a bait product to prevent formation of satellite nests.

4.2.2 Use-specific risk mitigation measures

- Do not spray directly on people, animals or bedding.
 - Do not spray bed linen or other materials which come into direct contact with occupants of the bed or which might be washed.
- Do not use to treat mattresses in cots where infants sleep.
- Remove or cover all fish tanks and bowls before application.

4.2.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

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4.2.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

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4.2.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

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4.3 Use description

Use 3 - For control of bed bugs - professional users - indoors

Product type	PT18 - Insecticides, acaricides and products to control other arthropods (Pest control)
Where relevant, an exact description of the authorised use	Insecticide
Target organism(s) (including development stage)	Scientific name: Cimicidae: Common name: Bed bugs Development stage: Adults
Field(s) of use	Indoor Use in buildings including houses, blocks of flats, hotels, restaurants, hospitals, food factories, warehouses. The product is for hygiene use only and must not be used to protect plants and plant products from damage caused by insects.
Application method(s)	Method: Spraying Detailed description: -
Application rate(s) and frequencies	Application Rate: Dilute 10 g of product with water to obtain a total amount of 5 Liters of solution for 100 m ² . Dilution (%): 0.2 Number and timing of application: Repeated treatment is necessary to achieve control of bed bugs. The residual life of the deposit will last up to 4 weeks, depending upon the cleanliness and nature of the surface to which it is applied.
Category(ies) of users	Trained professional Professional
Pack sizes and packaging material	Sachet, Foil lined sachets (PE, Al or PET) , 2.5 g in cardboard box (up to 500 g). Foil lined sachets (Al, PE or PET) contained in cardboard box (up to 500 g).

Bottle, Plastic: HDPE , Up to 1 liter

4.3.1 Use-specific instructions for use

- Spray bed frames and mattresses and crack and crevices in adjacent wall and floor areas.
- For full efficacy it is necessary to follow up the initial treatment with spot treatments, weekly, for at least 4 weeks. Treated areas should not be cleaned until treatment is finished
- The applicator must ensure that information on how to clean up after finished treatment is provided to the person responsible for cleaning

4.3.2 Use-specific risk mitigation measures

- Wear protective chemical resistant gloves and a coverall during product handling phase. Glove material and type of protective coverall is to be specified by the authorisation holder within the product information
- To prevent exposure to toddlers, the treated areas as well as surrounding areas shall be thoroughly cleaned after treatment is finalised
- Toddlers should not access treated rooms/areas until treatment and cleaning have been finalised
- Cleaning after treatment shall be performed using methods that does not lead to any potential product residues being discharged into wastewater. If wet cleaning is desired, use disposable tissues/cloths that are moistened with water and mild detergent. The used tissues/cloths must be discarded in dry waste and must not be rinsed after use
- Do not spray directly on people, animals or bedding
- Do not spray bed linen or other materials which come into direct contact with occupants of the bed or which might be washed
- Do not treat mattresses in cots where infants sleep
- Remove or cover all fish tanks and bowls before application

4.3.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

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4.3.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

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4.3.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

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4.4 Use description

Use 4 - For control of flies when at rest - professional users - indoors

Product type	PT18 - Insecticides, acaricides and products to control other arthropods (Pest control)
Where relevant, an exact description of the authorised use	Insecticide
Target organism(s) (including development stage)	Scientific name: Muscidae: Common name: Flies Development stage: Adults Scientific name: Musca domestica Common name: House fly Development stage: Adults
Field(s) of use	Indoor Use in buildings including houses, blocks of flats, hotels, restaurants, hospitals, food factories, warehouses. The product is for hygiene use only and must not be used to protect plants and plant products from damage caused by insects.
Application method(s)	Method: Spraying Detailed description: -
Application rate(s) and frequencies	Application Rate: Dilute 5 g of product with water to obtain a total amount of 5 Liters of solution for 100 m ² . Dilution (%): 0.1 Number and timing of application: The residual life of the deposit will last up to 4 weeks, depending upon the cleanliness and nature of the surface to which it is applied. Repeat treatment may be carried out as necessary, up to maximum of 11 applications per year.
Category(ies) of users	Trained professional Professional
Pack sizes and packaging material	Sachet, Foil lined sachets (PE, Al or PET) , 2.5 g in cardboard box (up to 500 g). Foil lined sachets (Al, PE or PET) contained in cardboard box (up to 500 g). Bottle, Plastic: HDPE , Up to 1 liter

4.4.1 Use-specific instructions for use

For control of flies on areas non subject to wet cleaning:

- Identify where flies settle and spray the surface.

For control of flies on areas subject to wet cleaning:

- Spray as crack and crevices treatment only.

4.4.2 Use-specific risk mitigation measures

- Do not spray directly on people, animals or bedding.
 - Do not spray bed linen or other materials which come into direct contact with occupants of the bed or which might be washed.
- Do not use to treat mattresses in cots where infants sleep.
- Remove or cover all fish tanks and bowls before application.

4.4.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

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4.4.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

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4.4.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

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5. General directions for use

5.1. Instructions for use

General information

- Always read the label or leaflet before use and follow all the instructions provided.

Mixing and spraying

- Ensure that sprayer is clean. If necessary wash out the sprayer with water and detergent before use and treat washings according to national and regional requirements.
- Carefully pour the granules into the spray tank. Fill the sprayer to the appropriate level with water and agitate. The granules will be fully dispersed within one minute. Do not store spray suspension between application days.
- Dilute with water only.
- Apply with suitable hand or mechanical sprayer capable of producing a coarse spray.
- Apply as a coarse spray, to just short run-off. For treatment of exposed surfaces use a flat-fan nozzle. To spray cracks and crevices, use a pin-stream nozzle or special crack and crevice extension.

General Insect Control in buildings

- Spray wall/floor junctions, carpets etc and crack & crevices where insects might find cover. The only broadcast application of this product is to treat carpets or rugs. Proceed as above but spray 0.5 meter wide, overlapping bands to ensure an even coverage of spray.

- The spray can be applied to any surface which is not damaged by water alone.
- For insect control in wetrooms: Spray harbourages and cracks and crevices only in areas inaccessible to routine wet cleaning with a max. band width of 0.1m.
- The residual life of the deposit will vary depending upon the cleanliness and nature of the surface to which it is applied. Therefore re-treat as necessary. As residuality of surface spray products are generally reduced on porous surfaces, we recommend preferential treatment of non-porous surfaces wherever possible.
- K-OTHRINE WG 250 treated premises can be reoccupied by children, pets and other animals once the sprayed surfaces are dry. After the spray is dry it is recommended that rooms are ventilated. As K-OTHRINE WG 250 is a residual insecticide it is not recommended to wash off or vacuum the area until the infestation is under control.

Principles of strategies for managing the development of resistance:

- Where possible, application treatments should be combined with non-chemical measures. Integrated Pest Management (IPM) should be considered.
- Products should always be used in accordance with label recommendations.
- Applications should always be made against the most susceptible stages in the pest life cycle.
- Where an extended period of control is required, treatments should be alternated with products with different modes of action.
- Levels of effectiveness should be monitored, and instances of reduced effectiveness should be investigated for possible evidence of resistance, noting that sanitary conditions and proximity of untreated refuges can contribute to the risk of re-infestation.
- In cases where label rates, correctly applied, fail to give the expected level of control and resistance is demonstrated, use of any product containing the same class of chemistry should cease.

5.2. Risk mitigation measures

- The general public shall not be present in rooms during application.
- The product should be applied so that children, pets, food or feedstuffs do not come in contact with the product.
- Do not apply directly to surfaces on which food or feed is stored, prepared or eaten.
- Remove food stuffs prior to treatment. Cover water storage tanks, food preparation surfaces, food preparing equipment and eating utensils with impermeable plastic sheets before treatment. After treatment remove the sheets and clean the surfaces.
- Do not apply to areas susceptible to routine wet cleaning. The operator should remove spray drift and spill by targeted wet wiping with disposable tissues and dish detergent. To prevent emissions to the environment the disposable tissues must be discarded in dry garbage and must not be rinsed or washed.
- In line with Best Practice for Professional Pest Control Operators it is recommended to wear gloves and coverall when mixing/loading and during the application of the product.
- Do not spray bed linnen or other materials which come into direct contact with people or pets, or which might be washed.

5.3. Particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

- 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).
- In case of accident or if you feel unwell seek medical advice immediately (show label where possible).
- If inhaled, move the patient to fresh air and keep at rest. Call a physician or poison control centre immediately.
- If eaten, call a physician or poison control centre immediately. Rinse mouth. Do NOT induce vomiting.
- Wash hands and exposed skin before meals and after use.
- Remove contaminated clothing immediately and dispose of safely.
- Wash any contamination from skin or eyes immediately for at least 15 minutes. Call a physician if irritation develops and persists.
- Do not handle treated fabrics until dry and air thoroughly before use.
- Do not contaminate ground, waterbodies or watercourses with chemicals or used container.

5.4. Instructions for safe disposal of the product and its packaging

Dispose of contents/container in accordance with local regulation.
Do not discharge the biocidal product nor the diluted solution of the biocidal product (including the cleaning water of the equipment) into the sewage system.

The following phrase should be mentioned only in the SDS:

Residues of the biocidal product must be disposed of in accordance with the Waste Framework Directive (2008/98/EG) and the European Waste Catalogue (EWC) as well as national and regional regulations.

Leave biocidal products in original containers. Do not mix with other waste. Containers containing residues of the product have to be handled accordingly.

Waste entry on pesticides: 20 01 19

Waste entry on packaging containing residues of or contaminated by dangerous substances: 15 01 10

5.5. Conditions of storage and shelf-life of the product under normal conditions of storage

Shelf life of 3 years.

Keep container tightly closed.

Keep only in original container.

Protect from freezing.

Keep in a safe place.

Keep away from food, drink and animal feeding stuffs.

6. Other information

Label claims regarding target organisms must read as specified in the SPC.

If delicate fabrics or materials, which may be damaged by water, require treatment, test the spray on a small inconspicuous area first.