

Summary of product characteristics for a biocidal product

Product name: K-Othrine SC 25

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

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Authorisation number: 1070-12

R4BP 3 asset reference number: DK-0010661-0000

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Administrative information

1.1. Trade names of the product

K-Othrine SC 25 Family
K-Othrine SC 25 (Product)
K-Othrine SC 26.25 (Product)

1.2. Authorisation holder

Name and address of the authorisation holder	Name	2022 ENVIRONMENTAL SCIENCE FR SAS
	Address	3, place Giovanni Da Verrazzano 69009 LYON France
Authorisation number	1070-12	
R4BP 3 asset reference number	DK-0010661-0000	
Date of the authorisation	01/08/2017	
Expiry date of the authorisation	28/06/2027	

1.3. Manufacturer(s) of the biocidal products

Name of the manufacturer	Bayer S.A.S., Bayer CropScience, Business Unit Environmental Science
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 Béziers France
	SBM Formulation, ZI Avenue Jean Foucault, CS621 34500 Béziers France
	Bayer AG, Industriepark Höchst (Gebäude K 607) 65926 Frankfurt Germany

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 (%)
deltamethrin	(S)-a-cyano-3-phenoxybenzyl (1R,3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropane carboxylate	Active Substance	52918-63-5	258-256-6	2,52

2.2. Type of formulation

SC - Suspension concentrate (= flowable concentrate)

3. Hazard and precautionary statements

Hazard statements	<p>Very toxic to aquatic life with long lasting effects.</p> <p>Contains 1, 2-benzisothiazol-3(2H)-one and reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methy-2H-Isiothiazol-3-one (3:1). May produce an allergic reaction.</p>
Precautionary statements	<p>Avoid release to the environment.</p> <p>Dispose of contents to in accordance with local regulation.</p> <p>Dispose of container to in accordance with local regulation.</p> <p>Collect spillage.</p>



4. Authorised use(s)

4.1 Use description

Use 1 - Control of crawling insects

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: Insecta: Common name: Crawling insects Development stage: Adults Scientific name: Blattodea: Common name: Cockroaches Development stage: Adults
Field(s) of use	Indoor For use in domestic, commercial and industrial premises. In buildings including houses, blocks of flats, hotels, restaurants, hospitals, food factories and 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: Treating chronic infestations Method: Spraying Detailed description: Treating localised infestations
Application rate(s) and frequencies	Application Rate: Dilute 50 mL of product with water to obtain a total amount of 5 liters of solution for 100 m ² , resulting in a dose of 12.5 and 13.1 mg/ m ² for K-Othrine 25 and K-Othrine 26.25 respectively. Dilution (%): 1 Number and timing of application: The residual life of the deposit will last up to 3 months, depending upon the cleanliness and nature of the surface to which it is applied. Therefore re-treat as necessary, up to maximum 11 applications per year. Application Rate: Dilute 25 mL of product with water to obtain a total amount of 5 liters of solution for 100 m ² , resulting in a dose of 6.25 and 6.56 mg/m ² for K-Othrine 25 and K-Othrine 26.25 respectively. Dilution (%): 0.5 Number and timing of application: The residual life of the deposit will last up to 3 months, depending upon the cleanliness and nature of the surface to which it is applied. Therefore re-treat as necessary, up to maximum 11 applications per year.

Category(ies) of users	Trained professional Professional
Pack sizes and packaging material	Bottle, Plastic: HDPE , From 25 mL up to 20 litres

4.1.1 Use-specific instructions for use

<p>For control of crawling insects in areas not subject to wet cleaning:</p> <ul style="list-style-type: none"> • Spray as spot application in buildings, paying particular attention to doors, windows, cracks and crevices and other entry points usually used by insects. • When infested, spray bed frames and mattresses and cracks and crevices in adjacent wall and floor areas. • Spray infested carpets paying particular attention to edges of fitted carpets. • Spray harbourages and scavenging areas paying particular attention to cracks and crevices and areas behind or under machinery, kitchen equipment or pipework. • Spray infested floor coverings and furniture. <p>For control of crawling insects in areas subject to wet cleaning:</p> <ul style="list-style-type: none"> • Spray as crack and crevices treatment only, with a max spray bandwidth of 0.1 m. In order to achieve this, it may be necessary to use special spraying equipment and to maintain appropriate distance to the receiving surface. <p>Limitations:</p> <ul style="list-style-type: none"> • This product is not intended for the treatment of ant-nests.

4.1.2 Use-specific risk mitigation measures

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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 flies when at rest

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)	<p>Scientific name: Muscidae: Common name: Flies Development stage: Adults</p> <p>Scientific name: Musca domestica Common name: House fly Development stage: Adults</p>
Field(s) of use	<p>Indoor</p> <p>For use in domestic, commercial and industrial premises. In buildings including houses, blocks of flats, hotels, restaurants, hospitals, food factories and warehouses. The product is for hygiene use only and must not be used to protect plants and plant products from damage caused by insects.</p>
Application method(s)	<p>Method: Spraying Detailed description: -</p>
Application rate(s) and frequencies	<p>Application Rate: Dilute 50 mL of product with water to obtain a total amount of 5 liters of solution for 100 m², resulting in a dose of 12.5 and 13.1 mg/m² for K-Othrine 25 and K-Othrine 26.25 respectively. Dilution (%): 1 Number and timing of application: The residual life of the deposit will last up to 3 months, depending upon the cleanliness and nature of the surface to which it is applied. Therefore re-treat as necessary, up to maximum 11 applications per year.</p>
Category(ies) of users	<p>Trained professional</p> <p>Professional</p>
Pack sizes and packaging material	Bottle, Plastic: HDPE , From 25 mL up to 20 litres

4.2.1 Use-specific instructions for use

For control of flies in areas not subject to wet cleaning:

- Identify where flies settle and spray the surface.

For control of flies in areas subject to wet cleaning:

- Spray as crack and crevices/spot treatment only, with a max spray bandwidth of 0.1 m. In order to achieve this, it may be necessary to use special spraying equipment and to maintain appropriate distance to the receiving surface.

4.2.2 Use-specific risk mitigation measures

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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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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.
- Fill the sprayer with half the required volume of water. Carefully open the pack lid and the seal. Measure out precisely the required quantity of product and pour carefully (avoid 'glugging') into the spray tank. Complete the filling of the sprayer with water to the appropriate level and agitate. Re-agitate the tank if a pause in application has occurred lasting longer than 30 min.
- Dilute with water only.
- Apply with suitable hand or mechanical sprayer capable of producing a coarse spray, to just short of 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. Max band width is 0.1 m. Maintain a suitable distance between nozzle and sprayed surface in order to achieve the desired band width.

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.
- For insect control in areas that are subject to wet cleaning: Spray crack and crevices only, with a max band width of 0.1 m.
- The residual life of the deposit will last up to 3 months, depending upon the cleanliness and nature of the surface to which it is applied. Therefore re-treat as necessary, up to maximum of 11 applications per year.
- K-OTHRINE SC 25 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 SC 25 is a residual insecticide it is not recommended to clean or vacuum the area until the infestation is under control.
- As residuality of surface spray products are generally reduced on porous surfaces, preferential treatment of non-porous surfaces wherever possible is recommended.

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

- Wash hands and exposed skin after use and before meals.
 - 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.
 - 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.
 - 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 plastic sheets and clean the surfaces.
 - Remove contaminated clothing immediately and dispose of safely.
 - 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.

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 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 2 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.
Information on the SDS about IPM principles is recommended.
2 % of the mixture consists of components of unknown acute inhalation toxicity (this sentence belongs to the H&P statements, but without a hazard code it cannot be added to that section).
Content of active substance (pure): 2.43 - 2.52 % w/w (25.0 - 26.2 g/L).
Content of active substance (technical material): 2.47 - 2.56 % w/w (25.4 - 26.6 g/L).