

Summary of product characteristics for a biocidal product

Product name: K-Othrine Partix

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

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Authorisation number: IE/BPA 70480

R4BP 3 asset reference number: IE-0020984-0000

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Administrative information

1.1. Trade names of the product

K-Othrine Partix
Deltamethrin SC 25L GIC
K-Othrine Flexx

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	IE/BPA 70480	
R4BP 3 asset reference number	IE-0020984-0000	
Date of the authorisation	04/07/2019	
Expiry date of the authorisation	15/05/2027	

1.3. Manufacturer(s) of the biocidal products

Name of the manufacturer	Bayer S.A.S.
Address of the manufacturer	16 rue Jean-Marie Leclair CS90106 69266 LYON France
Location of manufacturing sites	Bayer S.A.S. Villefranche-FR, Bayer S.A.S - Bayer CropScience Industrial operations, 1, Avenue Edouard Herriot F-69400 Villefranche-Limas France
	Dormagen Manufacturing plant, Bayer AG, Alte Heerstrasse 41538 Dormagen Germany
	Frankfurt Manufacturing plant, Bayer AG, Industriepark Höchst 65926 Frankfurt Germany
	Arysta (Toller), Arysta LifeScience SAS, BP 80 Route d'Artix 64150 Noguères France
	SBM Formulation Manufacturing Plant (Toller), ZI Avenue Jean Foucault, CS621 34500 Beziers France
	Phyteurop (Toller), Phyteurop S.A., ZI de la Grande Champagne, 49260 Montreuil-Bellay France
	Isagro, Aprilia (Toller), Isagro SpA, Stabilimento di Aprilia Via Nettunense Km. 23,400, 04011 Aprilia (Latina) Italy
	Schirm Schönebeck (Toller), Schirm Schönebeck (Toller), Geschwister-Scholl-Straße 127 39218 Schönebeck (Elbe) 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 Strasse 50 40789 Monheim Germany
Location of manufacturing sites	Bilag Industries Pvt Ltd 306/3, II Phase, GIDC, 396195 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	2,49
CMIT/MIT	Reaction mass of 5-chloro-2-methyl-2h-isothiazol-3-one and 2-methyl-2h-isothiazol-3-one (3:1)	Non-active substance	55965-84-9		0,0012

2.2. Type of formulation

SC - Suspension concentrate (= flowable concentrate)

3. Hazard and precautionary statements

Hazard statements

May cause an allergic skin reaction.
 Very toxic to aquatic life.
 Very toxic to aquatic life with long lasting effects.

Precautionary statements

Avoid breathing spray.
 Avoid release to the environment.
 Wear protective clothing.
 Wear protective gloves.
 IF ON SKIN: Wash with plenty of soap and water.
 If skin irritation or rash occurs: Get medical advice.
 Collect spillage.
 Dispose of contents to authorized waste disposal companies to accordance to local regulation.
 Specific treatment (see instruction on this label).

4. Authorised use(s)

4.1 Use description

Use 1 - Control of crawling insects indoor

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: <i>Blattella germanica</i> Common name: German cockroach Development stage: eggs, nymphs, adult Scientific name: <i>Periplaneta americana</i> Common name: American Cockroach Development stage: eggs, nymphs, adult
Field(s) of use	Indoor in public places (e.g. schools, hospitals...) as well as in domestic, commercial and industrial premises
Application method(s)	Method: Spraying Detailed description: Dilute 5 mL of Deltamethrin SC 25L GIC in water up to 1 liter and apply the working solution at a rate of 50 mL per m ² to achieve 6.25 mg deltamethrin /m ² . Effective up to 12 weeks.
Application rate(s) and frequencies	Application Rate: Repeated treatment may be carried out as necessary up to maximum eleven applications per year. Repeated treatment may be carried out as necessary up to maximum eleven applications per year . Dilution (%): 0.5 Number and timing of application: 1 application
Category(ies) of users	Trained professional Professional
Pack sizes and packaging material	Bottle (HDPE) from 2.5 ml up to 5 L

4.1.1 Use-specific instructions for use

For control on surfaces subjected to wet cleaning:

Spray as a spot treatment into crack and crevices only with max spray bandwidth of 0.1 m. In order to achieve this, application should be done by a pin-stream nozzle or special crack crevice extension and suitable distance between nozzle and sprayed surface should be maintained.

For control on surfaces not subjected to wet cleaning:

Spray on restricted surfaces only such as: closed areas below the kitchen furniture, under the fridge, under the kitchen sink, under the oven or the water heater, in all cracks and crevices that can be an harbourage for cockroaches.

4.1.2 Use-specific risk mitigation measures

- Before application indoor, close doors in the room where the product will be applied.
- Do not use directly on or near food, feed, drinks or on surfaces, utensils and facilities likely to be in direct contact with food, feed, drinks and livestock.
- Do not apply to surfaces on which food or feed is stored, prepared or supplied.
- Do not spray bed linen or other materials which come into direct contact with occupants of the bed (e.g. bedding) or which might be washed (e.g. curtains). Do not use to treat mattresses in cots where infants sleep.
- Do not spray directly on people, animals or bedding.
- Remove or cover all fish tanks and bowls before application.
- No bystander should be present during application or re-enter the room until the sprayed surfaces are dry.
- Ventilate the treated room sufficiently before unprotected people re-enter.
- The product should be applied so that pets do not come in contact with the product.

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 - Control of bedbugs indoor

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: Cimex lectularius
Common name: Bed bug
Development stage: Adults

Field(s) of use

Indoor

in public places (e.g. schools, hospitals...) as well as in domestic, commercial and industrial premises

Application method(s)	<p>Method: Spraying Detailed description:</p> <p>First treatment: Dilute 10 mL of Deltamethrin SC 25L GIC in water up to 1 liter and apply the working solution at a rate of 50 mL per m², to achieve 12.5 mg deltamethrin/m². Second treatment: Followed after 4 days, dilute 5 mL of K-Othrine Flexx in water up to 1 liter and apply the spray at a rate of 50 mL per m² to achieve 6.25 mg deltamethrin /m².</p> <p>Effective for 12 weeks.</p>
Application rate(s) and frequencies	<p>Application Rate: 2 treatments are required. Dilution (%): 1 Number and timing of application: 2 application</p>
Category(ies) of users	<p>Trained professional Professional</p>
Pack sizes and packaging material	<p>Bottle (HDPE) from 2.5 ml up to 5 L</p>

4.2.1 Use-specific instructions for use

Spray on restricted surfaces only not subjected to wet cleaning (e.g. carpets, mattresses, soft furnishing).

4.2.2 Use-specific risk mitigation measures

- Before application indoor, close doors in the room where the product will be applied.
- Do not use directly on or near food, feed, drinks or on surfaces, utensils and facilities likely to be in direct contact with food, feed, drinks and livestock.
- Do not apply to surfaces on which food or feed is stored, prepared or supplied.
- Do not spray bed linen or other materials which come into direct contact with occupants of the bed (e.g. bedding) or which might be washed (e.g. curtains). Do not use to treat mattresses in cots where infants sleep.
- Do not spray directly on people, animals or bedding.
- Remove or cover all fish tanks and bowls before application.
- No bystander should be present during application or re-enter the room until the sprayed surfaces are dry.
- Ventilate the treated room sufficiently before unprotected people re-enter.
- The product should be applied so that pets do not come in contact with the product.
- All washable materials (such as beddings, curtains, etc.) should be removed before treatment from the treated area.
- Do not spray on surfaces, which are subjected to wet cleaning.
- When treating soft furnishing, mattresses, carpets, etc. avoid contamination of adjacent wet cleaned floor. Thus, if necessary place impermeable material (e.g. plastic sheet) or remove spray drift and spill by targeted wetwiping with disposable tissues.
- To prevent emission to environment the impermeable material or tissues should be then disposed to an authorised waste disposal company in accordance with a local regulations.

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 - Control of spiders indoor

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: - Common name: spiders Development stage: Adults
Field(s) of use	Indoor in public places (e.g. schools, hospitals...) as well as in domestic, commercial and industrial premises
Application method(s)	Method: Spraying Detailed description: Dilute 5 mL of Deltamethrin SC 25L GIC in water up to 1 liter and apply the working solution at a rate of 50 mL per m ² to achieve 6.25 mg deltamethrin /m ² Effective for 8 weeks.
Application rate(s) and frequencies	Application Rate: Repeated treatment may be carried out as necessary up to maximum eleven applications per year. Dilution (%): 0.5 Number and timing of application: 1 application
Category(ies) of users	Trained professional Professional
Pack sizes and packaging material	Bottle (HDPE) from 2.5 ml up to 5 L

4.3.1 Use-specific instructions for use

For control on surfaces subjected to wet cleaning:

Spray as a spot treatment into crack and crevices only with max spray bandwidth of 0.1 m. In order to achieve this, application should be done by a pin-stream nozzle or special crack crevice extension and suitable distance between nozzle and sprayed surface should be maintained.

For control on surfaces not subjected to wet cleaning:

Spray on restricted surfaces only such as: closed areas below the kitchen furniture, under the fridge, under the kitchen sink, under the oven or the water heater, in all cracks and crevices that can be an harbourage for spiders.

4.3.2 Use-specific risk mitigation measures

- Before application indoor, close doors in the room where the product will be applied.
- Do not use directly on or near food, feed, drinks or on surfaces, utensils and facilities likely to be in direct contact with food, feed, drinks and livestock.
- Do not apply to surfaces on which food or feed is stored, prepared or supplied.
- Do not spray bed linen or other materials which come into direct contact with occupants of the bed (e.g. bedding) or which might be washed (e.g. curtains). Do not use to treat mattresses in cots where infants sleep.
- Do not spray directly on people, animals or bedding.
- Remove or cover all fish tanks and bowls before application.
- No bystander should be present during application or re-enter the room until the sprayed surfaces are dry.
- Ventilate the treated room sufficiently before unprotected people re-enter.
- The product should be applied so that pets do not come in contact with the product.

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 - Control of flies when at rest indoor

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: Musca domestica
Common name: house flies at rest
Development stage: Adults

Field(s) of use	Indoor in public places (e.g. schools, hospitals...) as well as in domestic, commercial and industrial premises
Application method(s)	Method: Spraying Detailed description: Dilute 5 mL of Deltamethrin SC 25L GIC in water up to 1 liter and apply the working solution at a rate of 50 mL per m ² to achieve 6.25 mg deltamethrin /m ² . Effective for 5 weeks.
Application rate(s) and frequencies	Application Rate: Repeated treatment may be carried out as necessary up to maximum eleven applications per year. Dilution (%): 0.5 Number and timing of application: 1 application
Category(ies) of users	Trained professional Professional
Pack sizes and packaging material	Bottle (HDPE) from 2.5 ml up to 5 L

4.4.1 Use-specific instructions for use

- Identify where flies settle and spray the surface if not subjected to routine wet cleaning (e.g. on the walls, on window frames and to the ceiling).

4.4.2 Use-specific risk mitigation measures

- Before application indoor, close doors in the room where the product will be applied.
- Do not use directly on or near food, feed, drinks or on surfaces, utensils and facilities likely to be in direct contact with food, feed, drinks and livestock.
- Do not apply to surfaces on which food or feed is stored, prepared or supplied.
- Do not spray bed linen or other materials which come into direct contact with occupants of the bed (e.g. bedding) or which might be washed (e.g. curtains). Do not use to treat mattresses in cots where infants sleep.
- Do not spray directly on people, animals or bedding.
- Remove or cover all fish tanks and bowls before application.
- No bystander should be present during application or re-enter the room until the sprayed surfaces are dry.
- Ventilate the treated room sufficiently before unprotected people re-enter.
- The product should be applied so that pets do not come in contact with the product.

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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4.5 Use description

Use 5 - Control of wasps in free hanging nest outdoor

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: <i>Vespula germanica</i> Common name: Wasps in nest Development stage: Adults
Field(s) of use	Outdoor wasp nest (hanging under the roof and on the tree)
Application method(s)	Method: Spraying Detailed description: Dilute 10 mL of Deltamethrin SC 25L GIC in water up to 1 liter and apply the working solution at a rate of 200 mL per nest to achieve 50 mg deltamethrin / nest Complete nest elimination is achieved within 1-2 weeks.
Application rate(s) and frequencies	Application Rate: Perform the treatment once. Dilution (%): 0.5 Number and timing of application: 1 application
Category(ies) of users	Trained professional Professional
Pack sizes and packaging material	Bottle (HDPE) from 2.5 ml up to 5 L

4.5.1 Use-specific instructions for use

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4.5.2 Use-specific risk mitigation measures

- Do not use near:
 - agricultural crop;
 - domestic animals;
 - ponds and other water bodies,
 - bee hives.
- During application cover the soil under the nest (e.g. by using plastic sheet).
- Do not apply on the rainy days.
- In around building conditions (on nests hanging on the upper part of wall under the roof) apply only on nest protected from washing-off by rainfall and floods.
- Wasps could become aggressive, attack and sting humans before knockdown effect occurs. To reduce this risk, treat at dusk and wear suitable protective equipment. Bystanders re-entry should be prevented until the nest control is achieved.

4.5.3 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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4.5.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

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4.5.5 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

To prepare the working solution:

Fill the applicator with half of required water amount. Carefully open the packaging of the product. Measure the required amount of product and carefully pour it into the applicators container. Fill the sprayer tank with rest of water and stir.

Apply with suitable hand or mechanical equipment using hand applicators (e.g. knapsack sprayers) producing a coarse spray at low pressure (1-3 bars) with median droplet size above 100µm, to be applied in a close proximity to target.

To avoid fine aerosol exposure do not use a space spray.

Strategies for avoiding and/or managing the development of resistance are provided as follows:

- where possible, application treatments should be recommended to be combined with nonchemical measures;
- 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 mode 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 reinfestation;
- in cases where label rates, correctly applied, fail to give the expected level of control and resistance is demonstrated, use of any product containing active substance with the same mode of action should cease .

Clean the application equipment by filling clean water in the knapsack sprayer and applying the wash water as spray, or disposing as hazardous waste. If blocked nozzle has to be cleaned it should be rinsed with clean water which removes residues from the nozzle. During this task gloves should be worn, which should be rinsed with clean water after the blocked nozzle has been installed again.

5.2. Risk mitigation measures

- Use only in accordance with the label instructions.
- Do not make more solution than needed for the treatment.
- Store rest of the product safely for a next treatment.
- During mixing and loading and cleaning of the equipment adequate personal protective equipment should be worn (gloves and protective coated coveralls).
- Do not apply as a space spray.
- Applications should always be made against the most susceptible stages in the pest life cycle.
- Wash hands and exposed skin after use.
- Take off contaminated clothing.

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

First aid instructions:

General advice: Remove contaminated clothing immediately and dispose of safely.

Ingestion: Keep at rest. Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.

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. Take off contaminated clothing. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. 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. Get medical attention if irritation develops and persists.

Emergency measures to protect the environment:

Precautions: Prevent product from entering the environment (surface and ground water), sewerage, drainage, etc. with the construction of protective barriers and closing drains.

Communicate to the relevant authorities on tipping leaks into waterways, drains, sewers.

Methods and materials for containment and cleaning: Absorb spill on inert material (sand, kaolin), collect and place in containers for later properly identified as a hazardous waste management.

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

Waste material (product, each packaging, contaminated clothes and water used for cleaning for contaminated equipment) must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

The following phrase should be mentioned in the SDS only:

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

The product remains stable for 2 years when stored in its original, unopened original container under cool, dry and well-ventilated conditions. Store away from light.

The product must be kept away from food, drink and animal feedstuffs.

6. Other information

Hazard category:

- Skin. Sens. 1
- Aquatic Acute 1
- Aquatic Chronic 1

Note: Deltamethrin and reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2-isothiazol-3-one (3:1) (CMIT/MIT) contribute to the classification of the mixture, and therefore must be declared on the label.

Pure active substance: 2.45%