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ANNEX

SUMMARY OF PRODUCT CHARACTERISTICS FOR A BIOCIDAL PRODUCT

KILLMETHRIN 2.5 WP

Product type(s)

PT18: Insecticides, acaricides and products to control other arthropods

Authorisation number: TΠ18-0323

R4BP asset number: GR-0002047-0000

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1. ADMINISTRATIVE INFORMATION

1.1. Trade name(s) of the product

Trade name(s)	KILLMETHRIN 2.5 WP TRIANOS 2.5 WP DELTA SECT WP DELTAMETHRIN SHARDA EUROPE WP RIPCOCK 2.5 WP GIVESOL 2.5 WP ECLAT
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1.2. Authorisation holder

Name and address of the authorisation holder	Name	Sharda Europe B.V.B.A
	Address	Heedstraat 58 1730 Asse Belgium
Authorisation number	TPI18-0323	
<i>R4BP asset number</i>	GR-0002047-0000	
Date of the authorisation	08/10/2018	
Expiry date of the authorisation	08/10/2028	

1.3. Manufacturer(s) of the product

Name of manufacturer	Sharda Europe B.V.B.A.
Address of manufacturer	Heedstraat 158 1730 Asse Belgium
Location of manufacturing sites	Sharda Europe B.V.B.A. site 1 DTS OABE. Polígono Industrial Zabale, Parcela 3 48410 Orozco, Vizcaya Spain Sharda Europe B.V.B.A. site 2 SPACHEM S.L., Polígono Industrial Guadasequies, S/ N 46839 Guadasequies, Valencia Spain Sharda Europe B.V.B.A. site 3 LUQSA, Afores S/N 25173 Sudanell, Lleida Spain Sharda Europe B.V.B.A. site 4 Chemark Kft, Industrial Zone H-8182 Peremarton - Gyarlep Hungary Sharda Europe B.V.B.A. site 5 CIECH Sarzyna S.A., ul Chemików 1, 37-310 Nowa Sarzyna Poland Sharda Europe B.V.B.A. site 6 AGROL, ul. Lipowa 16, Sucha Gorna 59-101 Polkowice Poland Sharda Europe B.V.B.A. site 7

	<p>S.T.I. Solfotecnica Italia SpA, Via Evangelista Torricelli 2 Not available Cotignola, Ravenna Italy</p> <p>Sharda Europe B.V.B.A. site 8</p> <p>Ellagret S.A., Thesis Xiropigado 19600 Mandra Attikis Greece</p> <p>Sharda Europe B.V.B.A. site 9</p> <p>SINAPAK S.R.L, Viale Industria e Artigianato 7 27049 Stradella, Padova Italy</p> <p>Sharda Europe B.V.B.A. site 10</p> <p>Productos FLOWER S.A., Polígono Industrial La Canaleta S/N 25300 Tárrega, Lleida Spain</p>
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1.4. Manufacturer(s) of the active substance(s)

Active substance	deltamethrin
Name of manufacturer	Sharda Cropchem Limited
Address of manufacturer	Prime Business Park 2nd Floor, Dashrathlal Joshi Road, Vile Parle (West) 400056 Mumbai India
Location of manufacturing sites	<p>Sharda Cropchem Limited site 1</p> <p>Heranba Industries Limited - Plot No 1503/1504/1505/1506/1, GIDC, Phase III, Vapi, District - Valsad, Gujarat 396195 Valsad India</p>

2. PRODUCT COMPOSITION AND FORMULATION

2.1. Qualitative and quantitative information on the composition of the 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	2,538
Sodium dodecylbenzenesulfonate	Sodium, 2-dodecylbenzenesulfonate	Non-active substance	25155-30-0	246-680-4	3
Sodium Lauryl sulfate	Sodium dodecyl sulfate	Non-active substance	151-21-3	205-788-1	2

2.2. Type(s) of formulation

WP Wettable powder

3. HAZARD AND PRECAUTIONARY STATEMENTS

Hazard statements	H318: Causes serious eye damage. H410: Very toxic to aquatic life with long lasting effects.
Precautionary statements	P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P103: Read carefully and follow all instructions. P273: Avoid release to the environment. P280: Wear protective gloves. P280: Wear protective clothing. P280: Wear eye protection. P280: Wear face protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER. P391: Collect spillage. P501: Dispose of contents to in accordance with local/regional/national/international regulations.

4. AUTHORISED USE(S)

4.1. Use description

Table 1. Indoors crack and crevices treatment by professional users

Product type	PT18: Insecticides, acaricides and products to control other arthropods
Where relevant, an exact description of the authorised use	Oriental cockroach (<i>Blatta orientalis</i>): Application in cracks and crevices. Product solution shall be applied in cracks and crevices, corners, behind and under furniture and in other small spots where insects usually hide. Killmethrin 2.5 WP is suitable for pest control treatment of the following premises: houses*, apartments*, neighborhood centers, cinemas*, barracks*, hotels*, restaurants*, bars*, canteens*, hospitals*, industrial warehouses**... ** Except premises, equipment, vehicles, locations and dependencies used: - for the transportation, receipt, maintenance and housing of pets or for the preparation and transportation of foods - for harvesting, transportation, storage, industrial processing and marketing of products of animal and plant origin.
Target organism(s) (including development stage)	Scientific name: <i>Blatta orientalis</i> Common name: Oriental cockroach Development stage: adults
Field(s) of use	indoor use Indoor use
Application method(s)	Method: spraying Detailed description: KILLMETHRIN 2.5 WP shall be applied through devices such as pumps or sprays working at low pressures (1-5 bar)
Application rate(s) and frequency	Application Rate: 0.5 g in 50 mL of water to treat 1 m ² of cracks and crevices Dilution (%): 1 Number and timing of application: The final spray solution quantity to be prepared pro rata shall be based on the actual treatment surface area Maximum 6 applications/year. Treatment can be repeated after 8 weeks
Category(ies) of users	trained professional ; professional
Pack sizes and packaging material	Bags/sacks of HDPE or complex composite 5-5000g: - Foil of complex material made of LDPE + Aluminium + Polypropylene or polyester or paper - Foil of complex material made of LDPE + metallic complex + Polypropylene or polyester or paper Bags can be supplied in cardboard boxes

4.1.1. Use-specific instructions for use

See general section

4.1.2. Use-specific risk mitigation measures

see general section

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

see general section

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

see general section

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

see general section

4.2. Use description

Table 2. Indoors spot, crack and crevices treatment by non-professional users

Product type	PT18: Insecticides, acaricides and products to control other arthropods
Where relevant, an exact description of the authorised use	Application in cracks and crevices. Product solution shall be applied in cracks and crevices, corners, behind and under furniture and in other small spots where insects usually hide. The product is suitable for pest control treatment of houses and apartments
Target organism(s) (including development stage)	Scientific name: <i>Blatta orientalis</i> Common name: Oriental cockroach Development stage: adults
Field(s) of use	indoor use Indoor use
Application method(s)	Method: spraying Detailed description: KILLMETHRIN 2.5 WP shall be applied through devices such as pumps or sprays working at low pressures (1-5 bar)
Application rate(s) and frequency	Application Rate: 1 g of product to be diluted in 100mL of water to treat only cracks and crevices Dilution (%): 1 Number and timing of application: Maximum 2 applications/year. Treatment can be repeated after 8 weeks.
Category(ies) of users	general public (non-professional)
Pack sizes and packaging material	Bags/sacks of HDPE or complex composite 5g: - Foil of complex material made of LDPE + Aluminium + Polypropylene or polyester or paper - Foil of complex material made of LDPE + metallic complex + Polypropylene or polyester or paper All presentations and packagings should contain a dosing system. Bags can be supplied in cardboard boxes Appropriate dosing system delivering 0.5 g product and a suitable spray bottle for preparing maximum 100mL solution shall be supplied with the product

4.2.1. Use-specific instructions for use

See general section

4.2.2. Use-specific risk mitigation measures

See general section

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

see general section

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

see general section

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

see general section

5. GENERAL DIRECTIONS FOR USE¹

5.1. Instructions for use

It is advisable to use the product through devices such as pumps or sprays, being careful to apply the solution in cracks and crevices, under or behind furniture and in general, in other small spots where Oriental cockroaches can hide or rest. The product shall be diluted at a rate of 1:100 in water (for treatment of 2 m², use 1g product and dilute with 99mL water). The in-use dilution will be applied through a low pressure sprayer (professionals: hand-held or knapsack sprayer, non-professionals: hand-held or trigger sprayer).

For non-professional use the solutions obtained must be sprayed at a dose of 100 ml of final solution (containing 1 gr product) for 2 m² crack and crevice surface.

Knockdown is expected 4 hours after exposure of Oriental cockroaches to the treated surfaces.

Diluted insecticide should never be stored: a fresh dilution should be prepared as necessary.

The product should only be applied on restricted areas in cracks and crevices where insects may inhabit as under sinks, behind furniture or equipment, under/behind appliances, in hidden corners, cockroaches' entry sites, pipework and along skirting-boards.

Application must be performed to a band of 0.1 m width on the treated surfaces.

Keep continuous agitation during application.

Strategies for managing the development of resistance:

For professionals:

- Take into account the life cycle and characteristics of target insects to adapt treatments. In particular, target the most susceptible stage of the pest, timing of applications and areas to be treated.
- Where possible, application treatments should be recommended to be combined with non-chemical measures.
- Where an extended period of control is required, treatments should be alternated with products having active substances with different modes of action.
- Establish a baseline and monitor levels of effectiveness on populations in key areas in order to detect any significant changes in susceptibility to active substance. Information from resistance monitoring programs allows early detection of problems and gives information for correct decision making.
- The users should inform if the treatment is ineffective and report straightforward to the registration holder or the distributor.
- The authorization holder should report any observed resistance incidents to the Competent Authorities (CA) or other appointed bodies involved in resistance management.
- Do not [use/apply] the product in areas where resistance to the active substance (s) contained in this product is suspected or established.

For non-professionals:

- If the infestation persists, contact a professional.
- Comply with the instructions for use.

5.2. Risk mitigation measures

Professionals: The use of eye protection (e.g. chemical goggles) during handling of the product is mandatory. Avoid any contact with the eyes. Wash hands thoroughly after handling of the product.

Ensure adequate ventilation during the application.

For use only in areas that are inaccessible to infants, children, pets and non-target animals.

No bystander or animals should be present during application of the product or re-enter the room until the sprayed surfaces are dry.

Contains deltamethrin, may be dangerous/toxic to pets (e.g. cats, bees, fish and other aquatic organisms).

Keep cats away from treated surfaces. Due to their high sensitivity to pyrethroids the product can cause severe adverse reactions to cats.

Remove or cover terrariums, aquariums and animal cages before application. Turn-off aquarium air-filter while spraying.

N-122 [slightly modified] Cover all surfaces and facilities likely to be in contact with food, feed and drinking water.

N-127 Do not apply directly on or near food, feed or drinks, or on surfaces or utensils likely to be in direct contact with food, feed, drinks and livestock/pets.

N-132 Do not apply directly to surfaces on which food or feed is stored, prepared or eaten.

N-301 Do not store near food, drink and feed.

¹Instructions for use, risk mitigation measures and other directions for use under this section are valid for any authorised uses.

In order to obtain a safe use for environment, a spray band application shall be conducted with the band width to be no more than 0.1 m, as such appropriate equipment shall be used (spray lance or nozzle).

Non-professional use: Do not apply more than 100mL solution/application when treating a private house. If you suspect that after two applications the product is not effective, contact a pest control company.

Do not apply more than 100mL solution/application when treating a private house.

Remove the dead cockroaches after treatment.

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

May cause transient irritation of skin, eyes and mucous membranes.

Poisoning can cause the following symptoms: paresthesia, which may be severe skin and eye. May cause irritation to eyes, skin and mucous membranes. Inhalation may cause irritation, cough. Risk of pulmonary edema. Excitation, gastrointestinal disorders, tremors, dizziness, headache, lethargy, vomiting, abdominal pain, muscular twitching, nausea, loss of consciousness ...

First aid instructions:

Please contact the national poison center and follow the respective instruction.

If medical advice is needed, have product container or label at hand.

General: Remove victim to fresh air. Immediately remove all contaminated clothing. Keep patient at rest.

Maintain body temperature. If the person is unconscious, shorten side with the head lower than the rest of the body and the knees bended. Control breathing, if necessary, artificial respiration. Do not just leave the patient under any circumstance. Remove to fresh to hospital and, whenever possible, take the container or label.

Ingestion: If swallowed do not induce vomiting. Summon a doctor immediately and show him the label or the safety data sheet.

Inhalation: Seek fresh air to the victim (move outdoors). If you notice discomfort, seek medical attention.

Skin Contact: After contact with skin, wash immediately with soap and water, without rubbing.

Eye Contact: Rinse immediately with plenty of water for at least 15 minutes with the eyelid held wide open, not forget to remove the lenses. If you notice discomfort, seek medical attention.

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 competent authorities or tipping leaks into waterways, drains, sewers etc

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

Consider the product or its residues as hazardous waste and manage through a licensed hazardous waste manager, in accordance with local regulations.

Empty the container thoroughly. Do not use the package again.

Do not discharge unused product on the ground, into water courses, into pipes (sink, toilets etc.) nor down the drains.

Dispose of unused product, its packaging and all other waste, in accordance with local regulations.

When cleaning application equipment, RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times and spray rinses to target surfaces.

Do not allow runoff to sewer, waterway or ground

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

The product should be stored in original unopened containers in a cool, dry, well-ventilated area up to 30oC.

Avoid high temperatures and direct action of sunlight. Protect from moisture. The containers must be placed in such a way as to allow free air circulation.

Do not store with oxidizers, alkalis (caustic solutions), or acids. Keep away from foodstuffs, beverages and feed.

Check stocks regularly for damage. Under these conditions, KILLMETHRIN 2.5 WP can be stored for 2 years.

Keep out of reach of children and non-target animals/pets.

6. OTHER INFORMATION

P280 phrase applies only to professional users