

Renewal Assessment Report

beta-cyfluthrin

Bulldock EC 25

Volume 3 – B.4 Further information

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Rapporteur Member State: Germany

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Version history

When	What

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B.4 Further information

B.4.1 Safety intervals and other precautions to protect humans, animals and the environment

According to the risk assessment for Bulldock 25 EC the risk mitigation measures/safety instructions shown in Table 4.1-1 are necessary.

Table 4.1-1: Summary of risk assessment for operators, workers, bystanders and residents

	Result	PPE / Risk mitigation measures
Operators	Acceptable	<ul style="list-style-type: none"> - Avoid any unnecessary contact with the product. Misuse can lead to health damage. - The directive concerning requirements for personal protective gear in plant protection, "Personal protective gear for handling plant protection products" of the Federal Office of Consumer Protection and Food Safety must be observed. - Wear standard protective gloves (plant protection) when handling the undiluted product. - Wear a protective suit against pesticides and sturdy shoes (e.g. rubber boots) when handling the undiluted product. - Wear tight fitting eye protection when handling the undiluted product. - Wear work clothing and sturdy footwear (e.g. rubber boots) during handling and applying plant protection products, if no specific protective clothing is required. - If the plant protection product comes into contact with skin (especially facial), it can cause burning or itching, without external signs of irritation. These effects must be regarded as a warning to avoid further exposure at all costs. If the symptoms do not disappear, or if they are joined by further symptoms, a doctor must be consulted.
Workers	Acceptable	<ul style="list-style-type: none"> - Treated areas/crops may not be entered until the spray coating has dried.
Bystanders	Acceptable	None
Residents	Acceptable	None

B.4.2 Recommended methods and precautions

Reference:

Anonymous (2013), Safety data sheet – MCW-5976, IVP (BVL no 2633412)

B.4.2.1 Procedures for cleaning application equipment and protective clothing

Reference:

Anonymous (2015), Bulldock 25 EC - Approval renewal of beta-cyfluthrin according to Regulation (EU) No 844/2012, ADAMA (BVL no 2962746)

No special procedures for cleaning of application equipment are needed. However, procedures according to Good Agricultural Practice are recommended, i.e. tank and nozzles should be rinsed with clean water, ideally three times.

B.4.2.2 Handling procedures for the storage

General recommendations:	Ensure good ventilation. Keep away from sources of ignition. – Do not smoke. Take measures against electrostatic charging, if appropriate. Avoid contact with eyes or skin. Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Observe directions on label and instructions for use. Use working methods according to operating instructions.
General hygiene measures at the workplace:	General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.
Conditions for safe storage, including any incompatibilities:	Keep out of access to unauthorised individuals. Observe regulations for keeping separated. Store product closed and only in original packing. Solvent resistant floor. Protect from direct sunlight and warming. Store in a well ventilated place. Only store at temperatures from 0 °C to 30 °C.

B.4.2.3 Transport

Land transport ADR/RID:	Environmentally hazardous substance, liquid, N.O.S. (hydrocarbons, C10, aromatics, beta-cyfluthrin) UN No.: 3082; Class: 9; Packing Group: III Environm. hazardous mark: yes (tunnel code: E)
Maritime transport IMDG:	Environmentally hazardous substance, liquid, N.O.S. (hydrocarbons, C10, aromatics, beta-cyfluthrin) UN No.: 3082; Class: 9; Packing Group: III Marine pollutant: yes
Air transport IATA:	Environmentally hazardous substance, liquid, N.O.S. (hydrocarbons, C10, aromatics, beta-cyfluthrin) UN No.: 3082; Class: 9; Packing Group: III Environm. hazardous mark: yes

B.4.2.4 Fire

Extinguishing media:	CO ₂ , dry extinguisher, alcohol resistant foam
Unsuitable extinguishing media:	High volume water jet
Special hazards arising from the substance or mixture:	In case of fire the following can develop: Oxides of carbon, oxides of sulphur, oxides of nitrogen, hydrogen chloride, hydrofluoric acid, toxic gases, flammable vapour/air mixtures

Advice for firefighters:	In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.
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B.4.2.5 Protective clothing and equipment

General protective and hygienic measures:	General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.
Respiratory protection:	If OES or MEL is exceeded. Filter A2 P2 (EN 14387), code colour brown, white Observe wearing time limitations for respiratory protection equipment.
Hand protection:	Chemical resistant protective gloves (EN 374). If applicable Protective nitrile gloves (EN 374) Protective gloves made of polyvinyl alcohol (EN 374) Protective Viton/fluoroelastomer gloves (EN 374) Minimum layer thickness in mm: 0.5 Permeation time (penetration time) in minutes: ≥ 480 The breakthrough times determined in accordance with EN 374 Part III were not obtained under practical conditions. The recommended maximum wearing time is 50 % of breakthrough time. Protective hand cream recommended.
Eye protection:	Tight fitting protective goggles with side protection (EN 166).
Skin and body protection:	Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)

B.4.3 Emergency measures in case of an accident

Reference:

Anonymous (2013), Safety data sheet – MCW-5976, IVP (BVL no 2633413)

B.4.3.1 Containment of spillages

Person-related precaution measures:	Remove possible causes of ignition – do not smoke. Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution – risk of slipping.
Environment precautions:	If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system. If accidental entry into drainage system occurs, inform responsible authorities.

Methods for cleaning up/taking up:	Soak up with absorbent material (e.g. universal binding agent). Fill the absorbed material into lockable containers.
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B.4.3.2 Decontamination of areas, vehicles and buildings

Please refer to B.4.3.1

B.4.3.3 Disposal of damaged packaging, absorbents and other materials

For the substance/ mixture/ residual amounts:	EC disposal code no.: The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC) 02 01 08 agrochemical waste containing dangerous substances 07 04 99 wastes not otherwise specified 20 01 19 pesticides Recommendation: Pay attention to local and national official regulations e.g. suitable incineration plant.
For contaminated packing material:	Pay attention to local and national official regulations. Empty container completely. Dispose of packaging that cannot be cleaned in the same manner as the substance.

B.4.3.4 Protection of emergency worker and residents, including bystanders

Use the recommended personal protective equipment.

B.4.3.5 First aid measures

After inhalation:	Remove person from danger area. Supply person with fresh air and consult doctor according to symptoms. If the person is unconscious, place in a stable side position and consult a doctor.
After eye contact:	Remove contact lenses. Wash thoroughly for several minutes using copious water. Seek medical help if necessary.
After skin contact:	Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.
After ingestion:	Rinse the mouth thoroughly with water. Do not induce vomiting. Consult doctor immediately. Danger of aspiration. In case of vomiting, keep head low so that the stomach content does not reach the lungs.

B.4.4 Packaging, compatibility of the plant protection product with proposed packaging materials

B.4.4.1 Packaging

References:

Anonymous (2002), Costumer specification file for 1.0 liter chemical bottle, R-19833, IVP (BVL no 2633414)

Anonymous (1997), Costumer specification file for 5.0 liter chemical container, R-19834, IVP (BVL no 2633415)

The following containers are proposed for the product:

1 L container:	Material:	4 layers consisting of: white polyethylene layer (HDPE), recycled material (surpluses procedure by the machine in the process), adhesive layer and barrier material layer (E.V.O.H) Manufactured by multilayer extrusion blow molding method
	Capacity and size:	1 litre, Diameter: 88.5 mm, height: 241 mm
	Wall thickness	Minimum at 100 mm height: 1.5 mm Minimum at any bottle area not less than 0.70 mm
	Type of closure and size of opening:	White screw cap (50 mm tamper evident) made of high density polyethylene or polypropylene, with liner made of expanded polyethylene, expanded polypropylene faced aluminium, or induction barrier. Dimensions are: 50.1 mm int. diam; 55.7 mm ext. diam; and height of 29.3 mm. Toll \pm 0.02
5 L container:	Material:	6 layers consisting of: white polyethylene layer (H.D.P.E), recycled material (surpluses procedure by the machine in the process), adhesive layer, barrier material layer (E.V.O.H), adhesive layer and polyethylene layer (H.D.P.E) Manufactured by multilayer extrusion blow molding method
	Capacity and size:	5 litres, 190 x 142 mm, height to neck rim: 301 mm
	Wall thickness	Minimum at 120 mm height: 1.2 mm Minimum at base corners not less than 0.7 mm
	Type of closure and size of opening:	White screw cap (64 mm tamper evident) made of high density polyethylene, with liner made of expanded polyethylene, expanded polypropylene faced aluminium, or induction barrier. Dimensions are: 64.2 mm int. diam; 69.5 mm ext. diam; and height of 32.4 mm. Toll \pm 0.2

B.4.4.2 Compatibility of the plant protection product with proposed packaging materials

Reference:

Demangel (2013), Physico-chemical tests and analyses before and after an accelerated storage procedure for 14 days at 54 \pm 2 °C on BULLDOCK 25 EC, R-30588, IVP (BVL no 2633416)

Beta-cyfluthrin containing EC formulations have been sold in European countries in the current packaging for a number of years and there has been no evidence of packaging interactions, seepage or panning. These commercial observations are supported by results of the storage stability data:

Outside aspects: well closed HDPE/EVOH bottles of 1L without deterioration or special anomaly, no leak during shaking or turning, no significant pack weight change, no observable sign of test item contamination on outer surface. There was no modification of appearance determined.

Inside aspects: No deformation and no observable alternation of packaging material. The formulation was found to be stable when stored in a commercial type package for 14 days at 54°C.

The HDPE/EVOH bottles were tested in compliance with the requirements of:

- (1) European agreement concerning the International Carriage of Dangerous Goods by road (ADR) of the Economic Commission for Europe, Inland Transport Committee ECE/TRANS/175 (vol. I and II), 1997.
- (2) Transport of Dangerous Goods, Model Regulations, ST/SG/AC.Rev10, United Nations, 1997.

The packaging material is considered to be suitable for Bulldock 25 EC.

B.4.5 Procedures for destruction or decontamination of the plant protection product and its packaging

Reference:

Anonymous (2013), Safety data sheet – MCW-5976, IVP (BVL no 2633417)

The product, remainder or emptied packaging must be kept away from waters. Any contamination of public drains, surface or ground waters must be avoided. Dispose this material and its container at hazardous or special waste collection points according to local/ national legislation.

B.4.5.1 Neutralisation procedure

No specific neutralisation procedures are known or are considered necessary.

B.4.5.2 Controlled incineration

Reference:

Anonymous (2013), Safety data sheet – MCW-5976, IVP (BVL no 2633418)

No methods of disposal other than incineration were proposed.

B.4.6 References relied on

Annex point/ reference number	Author(s)	Year	Title Report No. Source (where different from company) GLP status (where relevant) published or not BVL registration number	Vertebrate study	Data protection claimed	Justification	Owner
KCP 4.2/01 4.3/01 4.5/01 4.5.2/01	Anonymous	2013	Safety data sheet - MCW-5976 Version: 0002 Not GLP not published 2633412 / 2633413 / 2633417 / 2633418	N	N	updated Safety data sheet	IRV
KCP 4.2	Anonymous	2015	Bulldock 25 EC - Approval renewal of beta-cyfluthrin according to Regulation (EU) No 844/2012 GLP: N, published: N 2962746 / 2962747	N	Y		ADAMA
KCP 4.4/01	Anonymous	2002	Costumer specification file for 1.0 liter chemical bottle Report No.: R-19833 Amraz, Ltd Not GLP not published 2633414	N	N	updated customer specification	IRV
KCP 4.4/02	Anonymous	1997	Costumer specification file for 5.0 liter chemicals container Report No.: R-19834 Amraz, Ltd Not GLP not published 2633415	N	N	updated customer specification	IRV

Annex point/ reference number	Author(s)	Year	Title Report No. Source (where different from company) GLP status (where relevant) published or not BVL registration number	Vertebrate study	Data protection claimed	Justification	Owner
KCP 4.4/03	Demangel, B.	2013	Physico-chemical tests and analysis before and after an accelerated storage procedure for 14 days at 54 ± 2 °C on Bulldock 25 EC. Report No.: 12-909007-009 Edition No: R-30588 Defitraces, 69126 Brindas, France GLP not published 2633416	N	Y	replacement [REDACTED] [REDACTED]	IRV

IRV = Irvita Plant Protection, Curacao – a member of Makhteshim Agan Holding B.V., The Netherlands