

EXTENSION OF AUTHORISATION FOR MINOR USES (EAMU)**INSTRUCTIONS FOR USE****PPP: Serenade ASO (PCS No. 03847)****CROPS:**

[Crops of: Field and protected bulb vegetables, fruiting vegetables, leafy vegetables, stem vegetables, legumes, brassicas, root and tuber crops, herbs, top fruit, cane fruit, bush fruit, soft fruit]

Crop Definitions- Within these instructions includes:

Bulb vegetables includes: Garlic, shallot, bulb & salad onion, hereafter referred to as bulb vegetables.

Fruiting vegetables includes: courgette, cucumber, marrow, melon, squash & pumpkin & sweetcorn. Hereafter referred to as fruiting vegetables.

Leafy vegetables includes: Burnet, Endive, cress, Orache, land cress, lambs lettuce, frise, scarole, baby leaf production, rocket, spinach, spinach beet & watercress.

Stem vegetables includes: Asparagus, celery, chicory, raddichio, Florence fennel, globe artichoke, leek, rhubarb & seakale. Hereafter referred to as stem vegetables.

Legumes includes: Lentil, lupin, (broad, French, field, runner & soya Beans), plus vining & combining peas, sugar snap & mange tout. Hereafter referred to as legumes.

Brassicas includes: Kohlrabi, Brussel sprout, cabbage, broccoli, calabrese, cauliflower, choi sum, Chinese cabbage, collard, fodder rape, kale, komatsuna, baby leaf brassica salad leaves & pak choi. Hereafter referred to as brassicas.

Root & tuber crops includes: celeriac, chicory root, Jerusalem artichoke, parsley root, Salsify, parsnip, fodder beet, red beet (beetroot) mangle, sugar beet, horseradish, mooli, radish, swede & turnip. Hereafter referred to as root & tuber crops.

Herbs includes: Perennial herbs {*Agastache spp*: angelica, balm, bay, burnet (salad), catnip, chamomile, chives, clary sage, dragonhead, fennel, horehound, hyssop, land cress, lavandin, lavender, lemon verbena, lovage, marjoram, mint, nettle, oregano}

-Perennial herbs {*Origanum heracleoticum spp*: plantain, rosemary, rue, sage, sorrel, spike lavender, St john's Wort, tarragon, thyme, woodruff, yarrow}

-Annual herbs: {basil, Borage, caraway, chervil, coriander, curry plant, dill, edible pansy, fenugreek, feverfew, marigold, nasturtium, parsley, rocket, savory, violet}

Hereafter referred to as "Herbs"

Top fruit includes: Almond, chestnut, hazelnut, walnut, apricot, bullace, cherry, damson, nectarine, peach, plum, sloe, crab apple, & quince. Hereafter referred to as top fruit.

Cane fruit includes: Blackberry, loganberry, raspberry, other rubus hybrids (eg: boysenberry, dewberry tayberry etc) Hereafter referred to as cane fruit.

Bush & small fruits includes: Blueberry, bilberry, cranberry, gooseberry, blackcurrant, redcurrant, other ribes hybrid (eg whitecurrant), table & wine grapes & [Field grown strawberry] Hereafter referred to as bush & small fruits.

This approval provides for the use of the product **Serenade ASO (PCS No. 03847)** in respect of, the crops and situations as listed above, which are extra to those specified on the product label.

The conditions of application outlined below are statutory. They must be complied with when availing of this extension for minor use. The instructions provided in this extension for minor uses must be used in conjunction with information provided on the approved product label.

Failure to abide by the conditions of approval specified below or on the product label may constitute a breach of the product approval.

Reference Date: 31.01.19. [Includes latest changes. This version should be used until updated]

<i>Product name:</i>	Serenade ASO
<i>Active Substance:</i>	<i>Bacillus subtilis</i> (strain QST 713) 1015.1 g/l (1.05×10^{12} CFU/L equivalent)
<i>Formulation:</i>	Suspension concentrate
<i>Authorisation Holder:</i>	Bayer CropScience Limited
<i>Marketing Company:</i>	Bayer CropScience limited
<i>PCS No:</i>	03847
<i>User type/Function:</i>	Professional Use / Fungicide.

Application:

Crop	Max. individual dose	Max. number of applications	Max. total dose	Minimum interval between applications	Latest time of application	Target
Field and protected: bulb vegetables, fruiting vegetables, leafy vegetables, stem vegetables legumes, brassicas, root and tuber crops, herbs, top fruit, cane fruit, bush fruit, soft fruit, woody ornamentals, ornamental seedlings & bulbs & forest nursery.	8.0l/ha	6	48.0l/ha	7 days	0 days before harvest	<i>Botrytis Spp.</i>

Other specific restrictions:

- (1) To avoid risks to human health & the environment comply with the terms of this approval in conjunction with the directions for use on the product label.
- (2) For any individual crop the maximum total dose refers to the total dose of any product containing the same active ingredient.
- (3) Application by tractor mounted/trailed/ air assisted sprayer and knapsack sprayers only.
- (4) Post application, do not allow unprotected persons to enter treated areas until the crop is completely dry & has been well ventilated.
- (5) For environmental information refer to the product label.
- (6) This approval extends to professional use only.
- (7) For operator protection refer to the product label in conjunction with the specific restrictions above.
- (8) Adverse effects: Approval holders must immediately submit any new information on the potentially dangerous effects of a product or residues of an active substance contained in a product, on human or animal health, or the environment.

There is limited evidence of crop safety and/or product efficacy available for this extension of authorisation for minor uses and the commercial risk of using this product on the crops/situations listed in this document is borne entirely by the grower.

Advisory information:

This approval relates to the use of Serenade ASO as an agricultural fungicide for use on the crops and situations listed above.

Applications should be applied protectantly or at the first signs of disease using a minimum of 400 litres of water per ha.

Growers are advised to test a small area of the crop first to ensure the application will not cause damage to the crop especially if the crop is under any stress.

Resistance Management:

This product should be applied in accordance with an anti-resistance strategy. Disease control may be reduced if strains of the pathogen less sensitive to *Bacillus subtilis* develop.

Total reliance on one pesticide will hasten the development of resistance. Pesticides of different chemical types or alternative control measures should be included in the planned programme. Alternating fungicides with different modes of action is a recognised anti-resistance strategy and Serenade ASO should always be used in conjunction with other fungicides with a different mode of action / different cross resistance group with satisfactory efficacy against the target.

Bacillus subtilis is classed (FRAC 44) & is a microbial fungicide.

IMPORTANT PLEASE NOTE:

Prior to the use of this product, growers should take advice from their crop advisors particularly in relation to the use of this product within an integrated crop management system of production.
