

UK Pesticide Guide

MARKATE 50

Product Details



Registration Number:	13529	Marketing Company:	Belchim
Formulation:	Emulsifiable concentrate	Active Substance:	lambda-cyhalothrin
Pesticide Contents:	50 g/l	Pack Size:	1 litre
For use only as:	Agricultural insecticide	Transport Code:	8
Packaging Group:	3	UN Number:	1760
Mode of Action Code:	IRAC 3	Approval Expiry:	9 September 2099

Statutory Information Compliance with these conditions of use is a legal requirement

Targets	Maximum Dose	Maximum Treatments	Latest Application	Harvest Interval	Restrictions	* EAMU Number	EAMU Expiry
All edible seed crops grown outdoors Caterpillars, Insect pests	150 ml/ha	450 ml/ha/year	n/a	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
All non-edible seed crops grown outdoors Caterpillars, Insect pests	150 ml/ha	450 ml/ha/year	n/a	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Almonds Caterpillars, Insect pests	200 ml/ha	400 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Apples Caterpillars, Insect pests	200 ml/ha	400 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Apricots Caterpillars, Insect pests	200 ml/ha	400 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Beetroot Caterpillars, Cutworms, Silver Y moth	150 ml/ha	450 ml/ha/crop	[No Data]	3 days	[No Data]	20073254	2099-09-09 00:00:00.000
Bilberries Caterpillars, Insect pests	200 ml/ha	400 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Blackcurrants Sawflies, Leaf curling midge	35 mls per 100 litres water	2 per year	[No Data]	14 days	[No Data]	20073269	2099-09-09 00:00:00.000
Blackcurrants Caterpillars, Insect pests	200 ml/ha	400 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Blueberries Caterpillars, Insect pests	200 ml/ha	400 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Borage for oilseed production Caterpillars, Insect pests	150 ml/ha	450 ml/ha/crop	before end of flowering	[No Data]	[No Data]	20073258	2099-09-09 00:00:00.000
Broad beans Thrips, Bruchid beetle	150 ml/ha	300 ml/ha/crop	[No Data]	3 days	[No Data]	20073234	2099-09-09 00:00:00.000
Bulb onions Insect pests, Thrips	150 ml/ha	450 ml/ha/crop	[No Data]	21 days	[No Data]	20073256	2099-09-09 00:00:00.000
Canary flower (Echium spp.) Caterpillars, Insect pests	150 ml/ha	450 ml/ha/crop	before end of flowering	[No Data]	[No Data]	20073258	2099-09-09 00:00:00.000

Targets	Maximum Dose	Maximum Treatments	Latest Application	Harvest Interval	Restrictions	* EAMU Number	EAMU Expiry
Carrots Carrot fly	300 ml/ha	900 ml/ha/crop	[No Data]	14 days	[No Data]	20080201	2099-09-09 00:00:00.000
Celeriac Cabbage seed weevil, Carrot fly, Cutworms	200 ml/ha	800 ml/ha/crop	[No Data]	14 days	[No Data]	20080204	2099-09-09 00:00:00.000
Celery (outdoor) Carrot fly, Silver Y moth	100 ml/ha	300 ml/ha/crop	[No Data]	7 days	[No Data]	20073257	2099-09-09 00:00:00.000
Cherries Caterpillars, Insect pests	200 ml/ha	400 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Chestnuts Aphids, Caterpillars	200 ml/ha	800 ml/ha/crop	[No Data]	14 days	[No Data]	20080206	2099-09-09 00:00:00.000
Chestnuts Caterpillars, Insect pests	200 ml/ha	400 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Cob nuts Aphids, Caterpillars	200 ml/ha	800 ml/ha/crop	[No Data]	14 days	[No Data]	20080206	2099-09-09 00:00:00.000
Combining peas Aphids, Beetles, Caterpillars, Weevils	150 ml/ha	300 ml/ha/crop	25 days before harvest	25 days	[No Data]	[No Data]	[No Data]
Crambe Flea beetle, Pollen beetle	150 ml/ha	450 ml/ha/crop	[No Data]	6 days	[No Data]	20102876	2099-09-09 00:00:00.000
Cranberries Caterpillars, Insect pests	200 ml/ha	400 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Durum wheat Aphids, Beetles, Caterpillars, Weevils	100 ml/ha	400 ml/ha/crop	Before late milk stage	[No Data]	[No Data]	[No Data]	[No Data]
Dwarf beans Caterpillars, Silver Y moth	200 ml/ha	800 ml/ha/crop	[No Data]	7 days	[No Data]	20080202	2099-09-09 00:00:00.000
Edible podded peas Aphids, Beetles, Caterpillars, Weevils	150 ml/ha	300 ml/ha/crop	25 days before harvest	25 days	[No Data]	[No Data]	[No Data]
Evening primrose Caterpillars, Insect pests	150 ml/ha	450 ml/ha/crop	before end of flowering	[No Data]	[No Data]	20073258	2099-09-09 00:00:00.000
Farm forestry Caterpillars, Insect pests	100 ml/ha	400 ml/ha/year	n/a	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Filberts Aphids, Caterpillars	200 ml/ha	800 ml/ha/crop	[No Data]	14 days	[No Data]	20080206	2099-09-09 00:00:00.000
Fodder beet Cutworms, Flea beetle, Leaf miner	150 ml/ha	300 ml/ha/crop	[No Data]	8 days	[No Data]	20073233	2099-09-09 00:00:00.000
Forest nurseries Caterpillars, Insect pests	180 ml/ha	540 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
French beans Caterpillars, Silver Y moth	200 ml/ha	800 ml/ha/crop	[No Data]	7 days	[No Data]	20080202	2099-09-09 00:00:00.000
Frise Caterpillars, Insect pests	150 ml/ha	300 ml/ha/crop or per year	[No Data]	3 days	[No Data]	20073259	2099-09-09 00:00:00.000
Garlic Insect pests, Thrips	150 ml/ha	450 ml/ha/crop	[No Data]	21 days	[No Data]	20073256	2099-09-09 00:00:00.000
Gooseberries Sawflies, Leaf curling midge	35 mls per 100 litres water	2 peryear	[No Data]	14 days	[No Data]	20073269	2099-09-09 00:00:00.000
Gooseberries Caterpillars, Insect pests	200 ml/ha	400 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Grapevines Capsids, Caterpillars, Wasps	200 ml/ha	2 per year	[No Data]	7 days	[No Data]	20080205	2099-09-09 00:00:00.000
Grass seed crops Caterpillars, Insect pests	100 ml/ha	400 ml/ha/crop	Before late milk stage	[No Data]	[No Data]	20073260	2099-09-09 00:00:00.000
Hazel nuts Aphids, Caterpillars	200 ml/ha	800 ml/ha/crop	[No Data]	14 days	[No Data]	20080206	2099-09-09 00:00:00.000
Hazel nuts Caterpillars, Insect pests	200 ml/ha	400 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Herbs (see appendix 6) Caterpillars, Insect pests	150 ml/ha	300 ml/ha/crop or per year	[No Data]	3 days	[No Data]	20073259	2099-09-09 00:00:00.000

Targets	Maximum Dose	Maximum Treatments	Latest Application	Harvest Interval	Restrictions	* EAMU Number	EAMU Expiry
Hops Caterpillars, Insect pests	200 ml/ha	400 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Horseradish Carrot fly	300 ml/ha	900 ml/ha/crop	[No Data]	14 days	[No Data]	20080201	2099-09-09 00:00:00.000
Lamb's lettuce Caterpillars, Insect pests	150 ml/ha	300 ml/ha/crop or per year	[No Data]	3 days	[No Data]	20073259	2099-09-09 00:00:00.000
Land cress Caterpillars, Insect pests	150 ml/ha	300 ml/ha/crop	[No Data]	3 days	[No Data]	20102878	2099-09-09 00:00:00.000
Leaf brassicas Caterpillars, Insect pests	150 ml/ha	300 ml/ha/crop or per year	[No Data]	3 days	grown for baby leaf production	20073259	2099-09-09 00:00:00.000
Leeks Insect pests, Thrips	200 ml/ha	400 ml/ha/crop	[No Data]	7 days	[No Data]	20073256	2099-09-09 00:00:00.000
Loganberries Caterpillars, Insect pests	200 ml/ha	400 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Lupins Caterpillars, Insect pests	150 ml/ha	300 ml/ha/crop	[No Data]	25 days	[No Data]	20102877	2099-09-09 00:00:00.000
Mallow (Althaea spp.) Carrot fly	300 ml/ha	900 ml/ha/crop	[No Data]	14 days	[No Data]	20080201	2099-09-09 00:00:00.000
Medlar Caterpillars, Insect pests	200 ml/ha	400 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Miscanthus Caterpillars, Insect pests	100 ml/ha	400 ml/ha/year	n/a	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Mustard Caterpillars, Insect pests	150 ml/ha	450 ml/ha/crop	before end of flowering	[No Data]	[No Data]	20073258	2099-09-09 00:00:00.000
Nectarines Caterpillars, Insect pests	200 ml/ha	400 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Ornamental plant production Caterpillars, Insect pests	180 ml/ha	540 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Parsley root Carrot fly	300 ml/ha	900 ml/ha/crop	[No Data]	14 days	[No Data]	20080201	2099-09-09 00:00:00.000
Parsnips Carrot fly	300 ml/ha	900 ml/ha/crop	[No Data]	14 days	[No Data]	20080201	2099-09-09 00:00:00.000
Peaches Caterpillars, Insect pests	200 ml/ha	400 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Pears Caterpillars, Insect pests	200 ml/ha	400 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Plums Caterpillars, Insect pests	200 ml/ha	400 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Poppies for morphine production Flea beetle, Pollen beetle	150 ml/ha	450 ml/ha/crop	before the end of flowering	[No Data]	[No Data]	20102875	2099-09-09 00:00:00.000
Potatoes Aphids, Beetles, Caterpillars, Weevils	150 ml/ha	600 ml/ha/crop	None	[No Data]	[No Data]	[No Data]	[No Data]
Protected all edible seed crops Caterpillars, Insect pests	100 ml/ha	3 per crop	n/a	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Protected all non-edible seed crops Caterpillars, Insect pests	100 ml/ha	3 per crop	n/a	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Protected forest nurseries Caterpillars, Insect pests	100 ml/ha	3 per year	n/a	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Protected oriental cabbage Caterpillars, Flea beetle	100 ml/ha	3 per crop	[No Data]	1 days	[No Data]	20102879	2099-09-09 00:00:00.000
Protected ornamentals Caterpillars, Insect pests	100 ml/ha	3 per year	n/a	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Quinces Caterpillars, Insect pests	200 ml/ha	400 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Radishes Cabbage seed weevil, Carrot fly, Cutworms	200 ml/ha	600 ml/ha/crop	[No Data]	7 days	[No Data]	20080204	2099-09-09 00:00:00.000
Raspberries Caterpillars, Insect pests	200 ml/ha	400 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000

Targets	Maximum Dose	Maximum Treatments	Latest Application	Harvest Interval	Restrictions	* EAMU Number	EAMU Expiry
Redcurrants Sawflies, Leaf curling midge	35 mls per 100 litres water	2 peryear	[No Data]	14 days	[No Data]	20073269	2099-09-09 00:00:00.000
Redcurrants Caterpillars, Insect pests	200 ml/ha	400 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Rubus hybrids Caterpillars, Insect pests	200 ml/ha	400 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Runner beans Caterpillars, Silver Y moth	200 ml/ha	800 ml/ha/crop	[No Data]	7 days	[No Data]	20080202	2099-09-09 00:00:00.000
Rye Caterpillars, Insect pests	100 ml/ha	400 ml/ha/crop	Before late milk stage	[No Data]	[No Data]	20073260	2099-09-09 00:00:00.000
Salad onions Insect pests, Thrips	150 ml/ha	300 ml/ha/crop	[No Data]	14 days	[No Data]	20073256	2099-09-09 00:00:00.000
Scarole Caterpillars, Insect pests	150 ml/ha	300 ml/ha/crop or per year	[No Data]	3 days	[No Data]	20073259	2099-09-09 00:00:00.000
Shallots Insect pests, Thrips	150 ml/ha	450 ml/ha/crop	[No Data]	21 days	[No Data]	20073256	2099-09-09 00:00:00.000
Short rotation coppice willow Willow sawfly, Willow aphid, Willow beetle	150 ml/ha	450 ml/ha/year	n/a	[No Data]	[No Data]	20073268	2099-09-09 00:00:00.000
Spring field beans Aphids, Beetles, Caterpillars, Weevils	150 ml/ha	300 ml/ha/crop	25 days before harvest	25 days	[No Data]	[No Data]	[No Data]
Spring linseed Caterpillars, Insect pests	150 ml/ha	450 ml/ha/crop	[No Data]	6 days	[No Data]	20073258	2099-09-09 00:00:00.000
Spring oilseed rape Aphids, Beetles, Caterpillars, Weevils	150 ml/ha	600 ml/ha/crop	6 weeks before harvest	6 days	[No Data]	[No Data]	[No Data]
Spring wheat Aphids, Beetles, Caterpillars, Weevils	100 ml/ha	400 ml/ha/crop	Before late milk stage	[No Data]	[No Data]	[No Data]	[No Data]
Strawberries Caterpillars, Insect pests	200 ml/ha	400 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Sugar beet Aphids, Beetles, Caterpillars, Weevils	150 ml/ha	300 ml/ha/crop	8 weeks before harvest	8 days	[No Data]	[No Data]	[No Data]
Swedes Caterpillars, Diamond-back moth, Flea beetle	300 ml/ha	900 ml/ha/crop	[No Data]	14 days	[No Data]	20102911	2099-09-09 00:00:00.000
Sweetcorn Frit fly	200 ml/ha	800 ml/ha/crop	[No Data]	7 days	[No Data]	20080203	2099-09-09 00:00:00.000
Triticale Caterpillars, Insect pests	100 ml/ha	400 ml/ha/crop	Before late milk stage	[No Data]	[No Data]	20073260	2099-09-09 00:00:00.000
Turnips Caterpillars, Diamond-back moth, Flea beetle	300 ml/ha	900 ml/ha/crop	[No Data]	14 days	[No Data]	20102911	2099-09-09 00:00:00.000
Vining peas Aphids, Beetles, Caterpillars, Weevils	150 ml/ha	300 ml/ha/crop	25 days before harvest	25 days	[No Data]	[No Data]	[No Data]
Walnuts Aphids, Caterpillars	200 ml/ha	800 ml/ha/crop	[No Data]	14 days	[No Data]	20080206	2099-09-09 00:00:00.000
Walnuts Caterpillars, Insect pests	200 ml/ha	400 ml/ha/year	not specified	[No Data]	[No Data]	20102880	2099-09-09 00:00:00.000
Winter field beans Aphids, Beetles, Caterpillars, Weevils	150 ml/ha	300 ml/ha/crop	25 days before harvest	25 days	[No Data]	[No Data]	[No Data]
Winter linseed Caterpillars, Insect pests	150 ml/ha	450 ml/ha/crop	before end of flowering	[No Data]	[No Data]	20073258	2099-09-09 00:00:00.000
Winter oilseed rape Aphids, Beetles, Caterpillars, Weevils	150 ml/ha	600 ml/ha/crop	before end of flowering	[No Data]	[No Data]	[No Data]	[No Data]

Targets	Maximum Dose	Maximum Treatments	Latest Application	Harvest Interval	Restrictions	* EAMU Number	EAMU Expiry
Winter wheat Aphids, Beetles, Caterpillars, Weevils	100 ml/ha	400 ml/ha/crop	Before late milk stage	[No Data]	[No Data]	[No Data]	[No Data]

Hazard classification & safety precautions

Hazard

- Corrosive
- Dangerous for the environment
- Harmful
- Harmful if inhaled
- Toxic if swallowed
- Very toxic to aquatic organisms

Operator protection

- Do not breathe dust/fog/fumes/gas/smoke/spray mist/vapour. Avoid working in spray mist
- In case of contact with eyes rinse immediately with plenty of water and seek medical advice
- Take off immediately all contaminated clothing
- Wash all protective clothing thoroughly after use, especially the inside of gloves
- Wash concentrate/dust from skin or eyes immediately
- Wash hands and exposed skin before eating, drinking or smoking and after work
- When using do not eat, drink or smoke

Storage and disposal

- Keep away from food, drink and animal feeding-stuffs
- Keep in original container, tightly closed, in a safe place
- Keep out of reach of children
- Wash out container thoroughly, empty washings into spray tank and dispose of safely

Risk phrases

- Causes severe skin burns and eye damage
- May be fatal if swallowed and enters airways
- May cause drowsiness or dizziness

Environmental protection

- Do not allow direct spray from broadcast air-assisted sprayers to fall within xx m of the top of the bank of a static or flowing waterbody, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 5 m of the top of a ditch which is dry at the time of application. Aim spray away from water
- Do not allow direct spray from horizontal boom sprayers to fall within 5 m of the top of the bank of a static or flowing waterbody, unless a Local Environment Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 m of the top of a ditch which is dry at the time of application. Aim spray away from water
- Do not contaminate water with product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards or roads
- Do not re-use container for any purpose/Do not re-use container for any other purpose
- High risk to bees
- Risk to certain non-target insects or other arthropods. For advice on risk management and use in Integrated Pest Management (IPM) see directions for use
- Use appropriate containment to avoid environmental contamination
- Very toxic to aquatic life with long-lasting effects

Medical advice

- If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label
- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Efficacy

- Best results normally obtained from treatment when pest attack first seen. See label for detailed recommendations on each crop
- Timing for control of barley yellow dwarf virus vectors depends on specialist assessment of the level of risk in the area
- Repeat applications recommended in some crops where prolonged attack occurs, up to maximum total dose. See label for details
- Where strains of aphids resistant to lambda-cyhalothrin occur control is unlikely to be satisfactory
- Addition of wetter recommended for control of certain pests in brassicas and oilseed rape
- Use of sufficient water volume to ensure thorough crop penetration recommended for optimum results
- Use of drop-legged sprayer gives improved results in crops such as Brussels sprouts

Restrictions

- Maximum number of applications or maximum total dose per crop varies - see labels
- Do not apply to a cereal crop if any product containing a pyrethroid insecticide or dimethoate has been applied to the crop after the start of ear emergence (GS 51)
- Do not spray cereals in the spring/summer (i.e. after 1 Apr) within 6 m of edge of crop

Crop specific information

- Latest use before late milk stage on cereals; before end of flowering for winter oilseed rape HI 3 d for radishes, red beet; 7 d for lettuce [12629]; 14 d for carrots and parsnips; 25 d for peas, field beans; 6 wk for spring oilseed rape; 8 wk for sugar beet

Environmental safety

- Dangerous for the environment
- Very toxic to aquatic organisms
- Flammable [13457]
- To protect non-target arthropods respect an untreated buffer zone of 5 m to non-crop land
- Since there is a high risk to non-target insects or other arthropods, do not spray cereals in spring/summer i.e. after 1st April within 6m of the field boundary [14060, 18868]
- Dangerous to bees