

Project title: *Bespoke on-line website to provide current information on pesticide approvals for ornamental crops*

Project number: CP 72

Project leader: Dr Miles Thomas, Fera

Report: Final

Previous reports: None

Key workers: Dr M Thomas (project co-ordinator)
A Pote (website developer)
D Hunt (consultation and feedback)

Location: Fera

Project co-ordinators: Nick Dunn, Frank P Matthews Ltd.

Date commenced: 07 December 2009

Date completion due: 07 April 2010


Key words: Long Term Arrangements, pesticides, ornamental crops, LTAEU, HNS, BOF, PO

AUTHENTICATION

I declare that this work was done under my supervision according to the procedures described herein and that the report represents a true and accurate record of the results obtained.

Dr Miles Thomas

Fera, Sand Hutton, York, Yorkshire, YO41 1LZ

Signature  Date 18 March 2010

Report authorised by:

Signature Date

Grower summary

Headline

Minefield of pesticide extensions for use in ornamental crops cleared by new HDC on-line tool.

Background

The long term arrangements for extension of use (LTAEU) of approved pesticides onto minor crops are slowly being phased out. Extensions of use onto edible crops ended some time ago but have been preserved on non-edible crops, subject to a complex set of rules.

For example, pesticides containing active substances which have been re-registered following placing on Annex 1 can no longer be extended to minor ornamental crops, unless they are also co-formulated within a product with an active substance which has not yet been through re-registration.

Summary

In order to provide an up-to-date listing of those products which are still permissible under the LTAEU, data within the pesticide approvals database **LIAISON**[®] have been reprocessed to provide an on-line tool, available via a link on the HDC website. This tool allows users to select a crop and knowing they require a particular pesticide type to solve their problem (fungicide, herbicide, insecticide etc.), they can search not only all those products currently approved for use on-label or off-label through SOLAs, but also list all those products that they could still legally use under the long term arrangements.

From the lists provided, product names provide hyperlinks to more detailed information on rates of application, maximum number of applications per season, application intervals, harvest intervals (still legally binding under extensions of use, even in non-edible crops) and a other important label information like handling, disposal and safety precautions environmental warnings, tank mix compatibility etc.

Additional features include the ability to sort pesticides by their modes of action, using the Fungicide, Herbicide and Insecticide Resistance Action Committees'

activity codes. This can be vital when preparing spray programmes to avoid the onset of pest or disease resistance, as products with different modes of action can be clearly displayed to allow choice of alternate or mixed spray programmes.

Further information on activity codes can be found at:

Insecticide Resistance Action Committee	-	www.irac-online.org
Fungicide Resistance Action Committee	-	www.frac.info
Herbicide Resistance Action Committee	-	www.hracglobal.com

In order to avoid confusion, the system also provides a button to allow users to display products no longer permitted for extension of use, to allow them to see clearly why something they might have used in the past is no longer allowed, rather than potentially missing from the system.

The database also contains biological and physical control agents not requiring registration to provide further options for pest and disease management without the use of registered pesticides.

Action points for growers

Use the system to check whether alternative products are available for use under the LTAEU which might solve your control problems.

Remember that extensions of use are undertaken at your own risk so always then check with your consultant or advisor as to the suitability of your choice.

ALWAYS READ THE LABEL.

How to use the database

To access the system, click on the link on the HDC website : www.hdc.org.uk

You can search the database using any combination of parameters available on the search page below, **but** you must always include a crop. The crop list displays all crop classification categories. These categories are based on the 'crop hierarchy' used for pesticide approvals, which includes edible crops. The hierarchy has evolved over time in response to changing classifications on product labels and has become rather complicated. However, if you perform a search against a specific crop the database will also extract relevant approvals data for any related general crop

categories. For example, a search on 'Bedding plants (protected)' would extract approvals for:

- Bedding plants (protected)
- Bedding plants
- Edible and non-edible crops
- Non-edible crop (protected)
- Ornamental (protected)
- Ornamental plant production

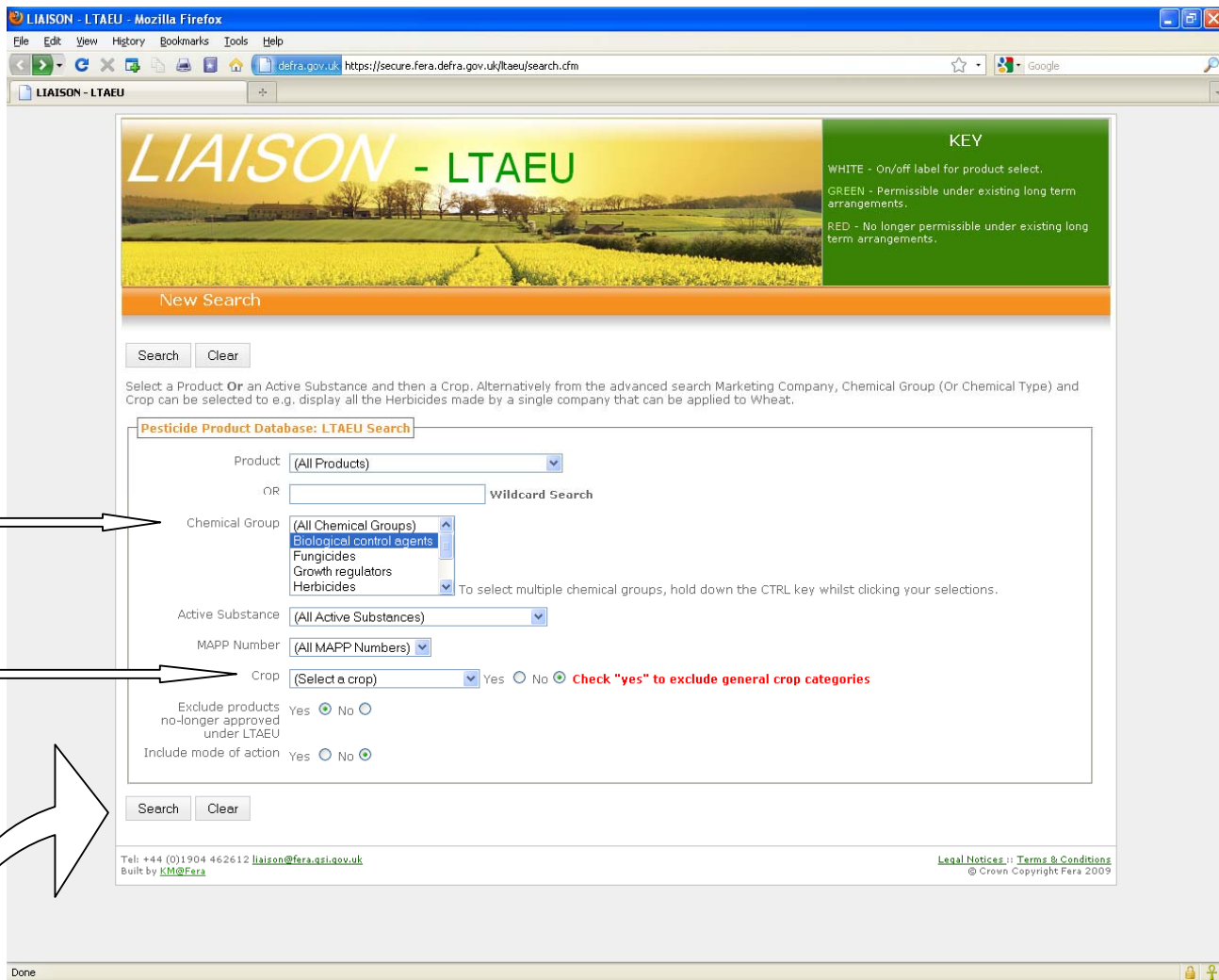
You can exclude general crop category approval data appearing in your search results by selecting the 'yes' button where it states 'Check "yes" to exclude general crop categories'

For the overwhelming majority of ornamental crops, specific crops will not be listed. If a crop you are interested in is unlisted you will need to search the database by using the general crop categories such as 'Ornamental (outdoor)' and 'Ornamental (protected).'

To test it out and get used to using it, select the crop and pesticide type from the drop-down lists of "Crop" and "Chemical group"

What does the 'Wildcard Search' mean?

If you are looking for a product but can't remember its full name, for example 'Landgold Piccant', you can enter part of its name (e.g. picc) into the 'Wildcard Search' box and run a search. It will find all products which contain "picc", not matter where it occurs in the word.



For example, select Insecticides and Chrysanthemums (protected) then click on the Search button.

The output you should see is given on the next page. There are 76 results and the first 50 are shown, illustrated by the green background to the page 1 box above the table.



You can select the remaining 26 records by clicking on the Next box or the 2 box.

Note that all these products have a white background: this means they have on- or off-label approval for use on Chrysanthemums (protected).

LIAISON - LTAEU - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Internal Apps Intranet RSS Feeds Food safety FC24 MoniQA Most Visited Latest Headlines The Long Term Arrang... FSA JRP Plone Herwinet viewApp LIAISON Eur-LEX Tray

LIAISON - LTAEU

LIAISON - LTAEU

New Search

KEY
 WHITE - On/off label for product select.
 GREEN - Permissible under existing long term arrangements.
 RED - No longer permissible under existing long term arrangements.

LIAISON Product Search Results for Chrysanthemums (protected)
 You are viewing records 1 to 50 of 76

< Prev 1 2 Next >

Product	MAPP Number	Formulation	Content (%)	Chemical group
Dynamec	13331	Abamectin	1.8	Acaricide
Gazelle SG	13725	Acetamiprid	20	Insecticide
Gazelle	12909	Acetamiprid	20	Insecticide
Applaud	11532	Buprofezin	25	Insecticide
Sherpa 100 EC	13570	Cypermethrin	10	Insecticide
Toppel 100 EC	13704	Cypermethrin	10	Insecticide
Bandu	10994	Deltamethrin	2.5	Insecticide
Decis Protech	11502	Deltamethrin	1.5	Insecticide
Aqriguard Deltamethrin	10770	Deltamethrin	2.5	Insecticide
Decis	07172	Deltamethrin	2.5	Insecticide
Cleancrop Decathlon	12834	Deltamethrin	2.5	Insecticide
Pearl Micro	08620	Deltamethrin	6.25	Insecticide
Sumi-Alpha	14023	Esfenvalerate	2.5	Insecticide
Sven	14859	Esfenvalerate	2.5	Insecticide
Borneo	13919	Etoxazole	11	Acaricide
Matador 200 SC	11058	Fenazaquin	20	Acaricide
Mainman	13123	Flonicamid	50	Insecticide
Intercept 5GR	14091	Imidacloprid	5	Insecticide
Imidasect 5 GR (14142)	14142	Imidacloprid	5	Insecticide
Courage	13862	Imidacloprid	5	Insecticide
Imidasect 5 GR	14574	Imidacloprid	5	Insecticide
Steward	13149	Indoxacarb	30	Insecticide
Maior	14527	Lambda-cyhalothrin	5	Insecticide
Hallmark With Zeon Technology	12629	Lambda-cyhalothrin	10	Insecticide
Eradicoat	13724	Maltodextrin	59.8	Physical control
Majestik	14831	Maltodextrin	59.8	Physical control
XL All Nicotine 95%	07402	Nicotine	95	Insecticide

Done

If you click on any of the products, for example Applaud, you will get further information on this approval, including the original level of crop approval, under which you selected crop is covered (in this case, Ornamental (protected)). Click on the product again to get detailed approval information.

LIAISON - LTAEU - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Internal Apps Intranet RSS Feeds Food safety FC24 MoniQA Most Visited Latest Headlines The Long Term Arrang... FSA JRP Plone Herwinet viewApp LIAISON Eur-LEX Tray

LIAISON - LTAEU

LIAISON - LTAEU

New Search

KEY
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LIAISON Product Search Results for Applaud
 You are viewing records 1 to 1 of 1

Product	MAPP Number	Active substance	% Active substance	Chemical group	Crop	Method of application	Crop stage	Final use date	Replaced by
Applaud	11532	Buprofezin	25	Insecticide	Ornamental (protected)	Ground spray	Field application	30 March 2010	

Back New Search

You will notice that the final use date for this product is given

If you click on the product again, you will get more detailed information on rates etc. as shown below:

The screenshot shows the LIAISON website interface. On the left, a search results table lists 'Applaud' with MAPP Number 11532 and Active substance Buprofezin. On the right, a 'Rates of Application' window is open, displaying detailed information for 'Applaud'. The window includes a table with various application parameters and their values.

MAPP Number	11532
This product must not be added to, or allowed to contaminate, aqueous phases used in hydroponic systems	
Formulation	Buprofezin
Formulation type	Suspension concentrate
Click Here for Biological Compatibility information on Buprofezin	
Click Here for Label Precautions	
Do not apply as a fog or mist.	
Crop	Ornamental (protected)
Crop Stage	Field application
Method of application	Ground spray
Maximum Rate	0.03000 litres/ 100.00 litres of water
Statutory maximum number of applications to this crop	None listed
Statutory Maximum Number of Applications at This Crop Stage	None listed
Maximum Total Dose	No limit
Harvest Interval	Not Stated
Latest Time of Application	Not Stated
Final use date	30 March 2010 under COPR
LERAP Category (New Window)	No Buffer Zone Requirement
Permissible in Organic Systems	No
Approval Information	20081252 Provisional approval (COPR)
Revocation	20082614
Additional Information	Label 01/03/2002

Label precautions can be displayed by clicking on the appropriate link:

The screenshot shows the 'LIAISON - Precaution Data - Mozilla Firefox' window. It displays 'LIAISON Precautions data for Applaud' with two sections: 'User Safety Precautions' and 'Environmental Safety Precautions (Public, Livestock, Wildlife etc.)'. A 'Back' button is visible at the bottom.

User Safety Precautions

- Wash hands before meals and after work

Environmental Safety Precautions (Public, Livestock, Wildlife etc.)

- Empty container completely and dispose of safely
- Do not contaminate surface waters or ditches with chemical or used container
- Store/keep in original container, tightly closed, in a safe place
- Do not re-use this container for any purpose

Back

Your Back button will take you back to the original output:

LIAISON - LTAEU

KEY
 WHITE - On/off label for product select.
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New Search

LIAISON Product Search Results for Chrysanthemums (protected)
 You are viewing records 1 to 50 of 76

« Prev 1 2 Next »

Product	MAPP Number	Formulation	Content (%)	Chemical group
Dynavec	13331	Abamectin	1.8	Acaricide
Gazelle SG	13725	Acetamiprid	20	Insecticide
Gazelle	12909	Acetamiprid	20	Insecticide
Applaud	11532	Buprofezin	25	Insecticide
Sherpa 100 EC	13570	Cypermethrin	10	Insecticide
Topnel 100 EC	13704	Cypermethrin	10	Insecticide
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Decis Protech	11502	Deltamethrin	1.5	Insecticide
Agriguard Deltamethrin	10770	Deltamethrin	2.5	Insecticide
Decis	07172	Deltamethrin	2.5	Insecticide
Cleancrop Decathlon	12834	Deltamethrin	2.5	Insecticide
Pearl Micro	08620	Deltamethrin	6.25	Insecticide
Sumi-Alpha	14023	Esfenvalerate	2.5	Insecticide
Sven	14859	Esfenvalerate	2.5	Insecticide
Borneo	13919	Etoxazole	11	Acaricide
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Steward	13149	Indoxacarb	30	Insecticide
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Eradicat	13724	Maltodextrin	59.8	Physical control
Maestik	14831	Maltodextrin	59.8	Physical control
XL All Nicotine 95%	07402	Nicotine	95	Insecticide

If you click on to the Next page or 2
 remaining 26 approved products.

« Prev 1 2 Next »

you will get the

LIAISON - LTAEU

KEY
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New Search

LIAISON Product Search Results for Chrysanthemums (protected)
 You are viewing records 51 to 76 of 76

« Prev 1 2 Next »

Product	MAPP Number	Formulation	Content (%)	Chemical group
Dursban WB	09153	Chlorpyrifos	75	Insecticide
Equity	12465	Chlorpyrifos	48	Insecticide
Clayton Pentoon 48 EC	14555	Chlorpyrifos	48	Insecticide
Clayton	11029	Chlorpyrifos	48	Insecticide
Beldan 22	12404	Chlorpyrifos-methyl	22.5	Insecticide
Supra 250	10590	Clofentazine	50	Acaricide
Curfew	14460	Cypermethrin	25	Insecticide
Curfew	14289	Cypermethrin	10	Insecticide
K-Chlor EC 25	13573	Deltamethrin	2.5	Insecticide
Savona	06057	Fatty acids	50.5	Insecticide
Safers Insecticidal Soap	07197	Fatty acids	50.5	Insecticide
Scout	12657	Fenpyroximate	5.13	Acaricide
Scoutall	12659	Lambda-cyhalothrin/pirimicarb	0.5/10	Insecticide
Delta Gas-Ex-B Forte	10561	Magnesium phosphide	66	Insecticide
Delta-Gas-Ex-B Forte	07503	Magnesium phosphide	66	Insecticide
Acetelle 50 EC	12726	Priniphos-methyl	50	Insecticide
Fluvalbar	14135	Priniphos-methyl	50	Insecticide
Acetelle Smoke Generator No. 10	10448	Priniphos-methyl	22.5	Insecticide
Acetelle Smoke Generator No. 20	10540	Priniphos-methyl	22.5	Insecticide
Acetelle 25 EC	H4800	Priniphos-methyl	25	Insecticide
Flux PBT	13996	Priniphos-methyl	50	Insecticide
Fluxathrum S EC (12638)	12638	Pyrethrins	0.5	Insecticide
Tracer	12438	Spinosad	48	Insecticide
Moverto	14446	Sporotramat	15	Insecticide
Elaktan	11074	Tau-fluvalinate	24	Insecticide
Mavrik	10612	Tau-fluvalinate	24	Insecticide

Note that these have a **green** background. This indicates that they are legal to use under the long term arrangements for extension of use under the situation (outdoor or protected) of the original crop you searched for (in this case **protected**).

Click on one of these products, for example Apollo 50 SC, and all the approvals for this product under this situation will be displayed:

The screenshot shows the LIAISON - LTAEU website interface. At the top, there is a header with the title "LIAISON - LTAEU" and a "KEY" section. The key defines the background colors: WHITE for on/off label, GREEN for permissible under existing long term arrangements, and RED for no longer permissible. Below the header is a "New Search" button. The main content area displays "LIAISON Product Search Results for Apollo 50 SC" and "You are viewing records 1 to 3 of 3". A table with a green background lists the search results. Below the table are "Back" and "New Search" buttons. At the bottom, there is contact information and legal notices.

Product	MAPP Number	Active substance	% Active substance	Chemical group	Crop	Method of application	Crop stage	Final use date	Replaced by
Apollo 50 SC	10590	Clofentezine	50	Acaricide	Raspberry (protected)	Ground spray	Field application	Off Label 31 December 2013	
Apollo 50 SC	10590	Clofentezine	50	Acaricide	Strawberries (protected)	Ground spray	Field application	Off Label 31 December 2013	
Apollo 50 SC	10590	Clofentezine	50	Acaricide	Blackberry (protected)	Ground spray	Field application	Off Label 31 December 2013	

Once again, clicking on any of these products will give you the rates of application etc. as before;

LIAISON Rates of application for Apollo 50 SC

MAPP Number	10590
Formulation	Clofentezine
Formulation type	Suspension concentrate
Click Here for Biological Compatibility information on Clofentezine	
Click Here for Information on Tank-Mix Compatibility/Incompatibility	
Click Here for Label Precautions	
Crop	Strawberries (protected)
Crop Stage	Field application
Method of application	Ground spray
Maximum Rate	0.4000 litres/1,000.00 litres of water
Statutory maximum number of applications to this crop	3
Statutory Maximum Number of Applications at This Crop Stage	None listed
Maximum Total Dose	-
Harvest Interval	7 Days
Latest Time of Application	Not Stated See: Harvest Interval
Final use date	31 December 2013
Approval Status	Specific off-label approval
Specific Off-Label Approval Number	2271/01
LERAP Category (New Window)	No Buffer Zone Requirement
Permissible in Organic Systems	No
Approval Information	2271 SOLA (COPR)
Approval Information	2271 SOLA Amendment

KEY
On/off label for product select.
Permissible under existing long term approvals.
No longer permissible under existing long term approvals.

stage	Final use date	Replaced by
on	Off Label 31 December 2013	
on	Off Label 31 December 2013	
on	Off Label 31 December 2013	

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In this case, the original approval on Strawberries (protected) was a SOLA, so you can access the SOLA document by clicking on the SOLA number in the Rates window.

downloadsola.cfm (application/pdf Object) - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Find

1 / 3 81.3%

NOTICE OF APPROVAL Number: 2271/2001

**FOOD AND ENVIRONMENT PROTECTION ACT 1985
CONTROL OF PESTICIDES REGULATIONS 1986 (S.I. 1986 NO. 1510):
APPROVAL FOR OFF-LABEL USE OF AN APPROVED PESTICIDE PRODUCT**

This approval provides for the use of the product named below in respect of crops and situations, other than those included on the product label. Such "off-label use", as it is known, is at all times done at the user's choosing, and the commercial risk is entirely his or hers.

The conditions below are statutory. They must be complied with when the off-label use occurs. Failure to abide by the conditions of approval may constitute a breach of that approval, and a contravention of the Control of Pesticides Regulations 1986 (as amended). The conditions shown below supersede any on the label which would otherwise apply.

Notice is hereby given that in exercise of the powers conferred by Regulation 5 of the Control of Pesticides Regulations 1986 (SI 1986/1510) (as amended) and of all other powers enabling them in that behalf, the Secretary of State and the Scottish Ministers (as regards Scotland) and the Welsh Ministers and the Secretary of State (acting jointly as regards Wales) have given full approval for the use of

Level and scope:

Product name: Apollo 50 SC containing

Active ingredient: 500 g / l clofentezine

Marketed by: Makhteshim-Agan (UK) Ltd under MAPP Number 10590 subject to the conditions relating to off-label use set out below:

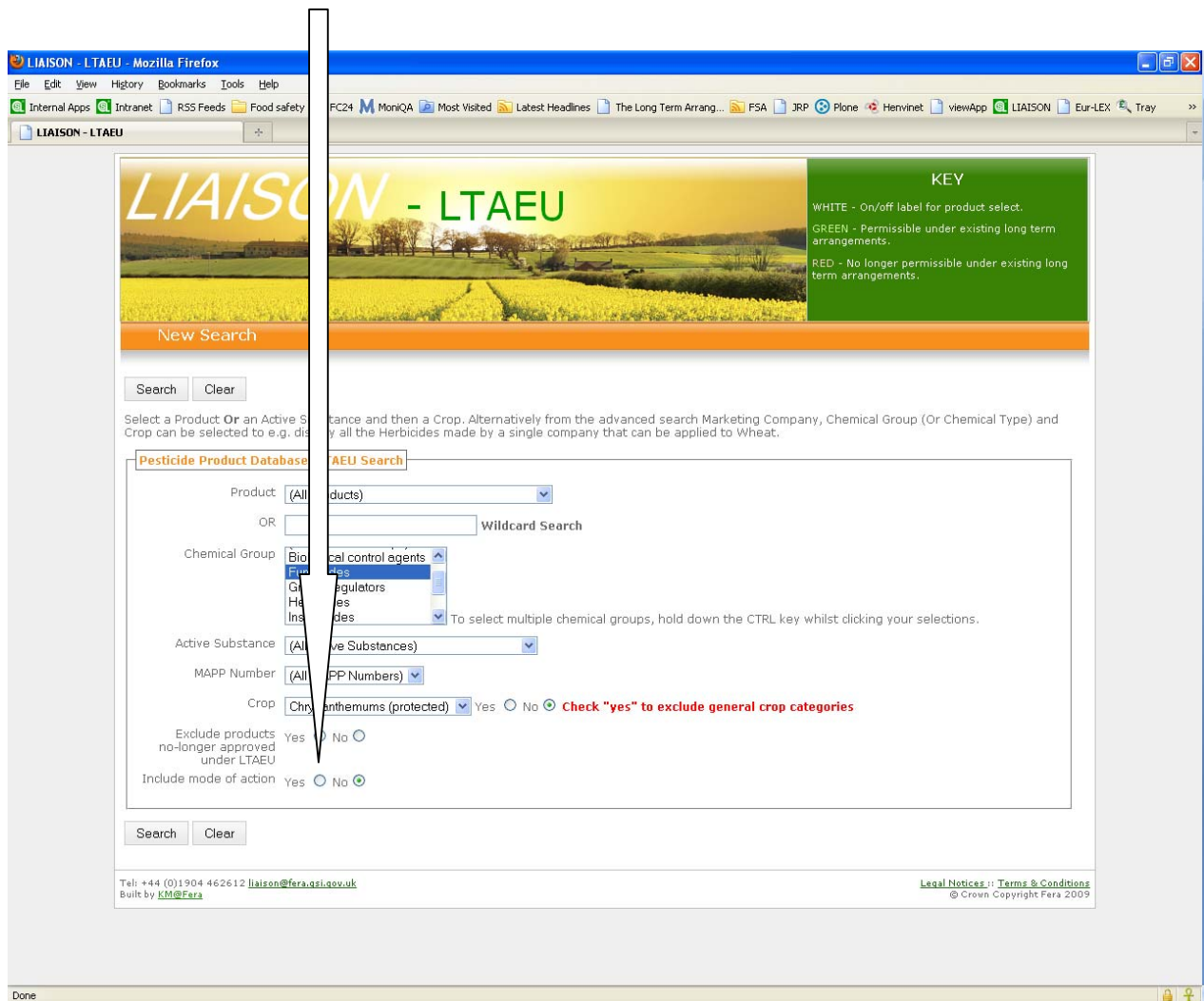
Date of expiry: 31 December 2013 (subject to the continuing approval of MAPP 10590).

Use:

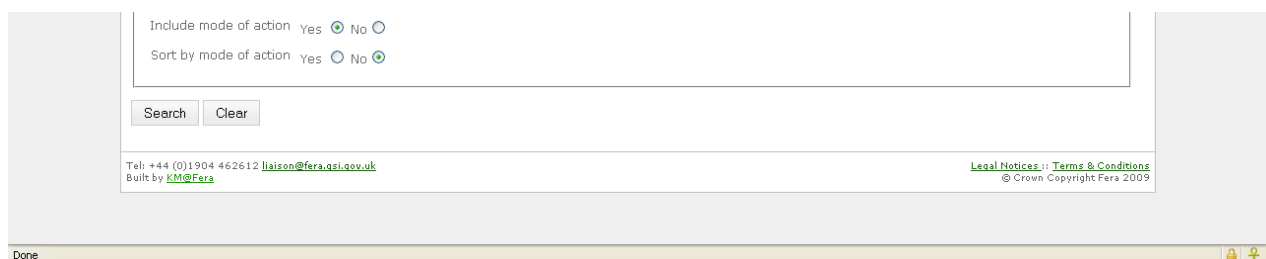
Field of use: **ONLY AS A HORTICULTURAL ACARICIDE**

Done

If you decide you also want to include mode of action of the pesticide, click on the button shown below:



When you select this, you will then also be given the option to sort by mode of action. If you don't select this, the output will be sorted by on/off-label approved first followed by LTAEU-approved, and by alphabetical order of active substance within these categories.



The output below shows part of the results of a search for fungicides approved for use on protected chrysanthemums, including mode of action and sorted by mode of action.

Clayton Tebucon	08707	Tebuconazole	25	Fungicide	Tebuconazole 3
Tebcon	14300	Tebuconazole	25	Fungicide	Tebuconazole 3
CHA 1640	14583	Tebuconazole	20	Fungicide	Tebuconazole 3
Amistar	10443	Azoxystrobin	25	Fungicide	Azoxystrobin 11
Strobry WG	08653	Kresoxim-methyl	50	Fungicide	Kresoxim-methyl 11
Kresoxy 50 WG	12275	Kresoxim-methyl	50	Fungicide	Kresoxim-methyl 11
Nando 500 SC	14372	Fluazinam	50	Fungicide	Fluazinam 29
Fubol Gold WG	14605	Mancozeb/metalaxyl-M	64/3.88	Fungicide	Metalaxyl-M 4
Fongarid Gold	12547	Metalaxyl-M	46.52	Fungicide	Metalaxyl-M 4
Subdue	12503	Metalaxyl-M	46.52	Fungicide	Metalaxyl-M 4
Nimrod	13046	Bupirimate	25	Fungicide	Bupirimate 8
Switch	13185	Cyprodinil/fludioxonil	37.5/25	Fungicide	Cyprodinil 9
Scala	11695	Pyrimethanil	40	Fungicide	Pyrimethanil 9
Switch	13185	Cyprodinil/fludioxonil	37.5/25	Fungicide	Fludioxonil 12
Basilex	07494	Tolclofos-methyl	50	Fungicide	Tolclofos-methyl 14
Paraat	99999	Dimethomorph	50	Fungicide	Dimethomorph 40
Route One Fosetyl 80	13625	Fosetyl-aluminium	80	Fungicide	Fosetyl-aluminium 33
Fosal	13384	Fosetyl-aluminium	80	Fungicide	Fosetyl-aluminium 33
Alliette 80 WG	13130	Fosetyl-aluminium	80	Fungicide	Fosetyl-aluminium 33
Standon Fullstop	13571	Fosetyl-aluminium	80	Fungicide	Fosetyl-aluminium 33
Potassium Hydrogen Carbonate	-	Potassium hydrogen carbonate	99	Fungicide	Potassium hydrogen carbonate NC
Cuprokvit FL	08299	Copper oxychloride	27	Fungicide	Copper oxychloride M1
Headland Inorganic Liquid Copper	13009	Copper oxychloride	43.5	Fungicide	Copper oxychloride M1
Solfa WG	11602	Sulphur	80	Sulphur	Sulphur M2
Thiovit Jet	10928	Sulphur	80	Sulphur	Sulphur M2
Microthiol Special	06268	Sulphur	80	Sulphur	Sulphur M2
					Mancozeb

The mode of action group for the active(s) within the product is given by the green hyperlink code in the right hand column. Each mode of action group has a different code and clicking on it illustrates what that group is (e.g. Fluazinam [29](#)).

LIAISON Pesticide Resistance Information for Fluazinam

Code (based on FRAC)	29
Mode of Action	C. respiration
Target Code: Target Site	C5: Uncoupler of oxidative phosphorylation
Group Name	C5: uncouplers of oxidative phosphorylation
Comments	
Other Actives in Group	Binapacryl, Dinocap, Ferimzone, Meptyldinocap
Other UK-Approved Actives in Group	Meptyldinocap

This screen alone shows 13 different fungicide modes of action, with 17 being selected in total on both output screens.

Note: where a product is formulated from two active substances with different modes of action, it will appear twice, once for each active in its own mode of action group.

For example, see Fubol Gold WG below:

U - Mozilla Firefox

History Bookmarks Tools Help

Intranet RSS Feeds Food safety FC24 MoniQA Most Visited Latest Headlines The Long Term Arrang... FSA JRP Plone Hervinet viewApp

EU

Kresoxy 50 WG	12275	Kresoxim-methyl	50	Fungicide	Kresoxim-methyl 11
Nando 500 SC	14372	Fluazinam	50	Fungicide	Fluazinam 29
Fubol Gold WG	14605	Mancozeb/metalaxyl-M	64/3.88	Fungicide	Metalaxyl-M 4
Fongarid Gold	12547	Metalaxyl-M	46.52	Fungicide	Metalaxyl-M 4
Subdue	12503	Metalaxyl-M	46.52	Fungicide	Metalaxyl-M 4
Nimrod	13046	Bupirimate	25	Fungicide	Bupirimate 8
Switch	13185	Cyprodinil/fludioxonil	37.5/25	Fungicide	Cyprodinil 9
Scala	11695	Pyrimethanil	40	Fungicide	Pyrimethanil 9
Switch	13185	Cyprodinil/fludioxonil	37.5/25	Fungicide	Fludioxonil 12
Basilex	07494	Tolclofos-methyl	50	Fungicide	Tolclofos-methyl 14
Paraat	99999	Dimethomorph	50	Fungicide	Dimethomorph 40
Route One Fosetyl 80	13625	Fosetyl-aluminium	80	Fungicide	Fosetyl-aluminium 33
Fosal	13384	Fosetyl-aluminium	80	Fungicide	Fosetyl-aluminium 33
Aliette 80 WG	13130	Fosetyl-aluminium	80	Fungicide	Fosetyl-aluminium 33
Standon Fullstop	13571	Fosetyl-aluminium	80	Fungicide	Fosetyl-aluminium 33
Potassium Hydrogen Carbonate	-	Potassium hydrogen carbonate	99	Fungicide	Potassium hydrogen carbonate NC
Cuprolyt FL	08299	Copper oxychloride	27	Fungicide	Copper oxychloride M1
Headland Inorganic Liquid Copper	13009	Copper oxychloride	43.5	Fungicide	Copper oxychloride M1
Solfa WG	11602	Sulphur	80	Sulphur	Sulphur M2
Thiovit Jet	10928	Sulphur	80	Sulphur	Sulphur M2
Microthiol Special	06268	Sulphur	80	Sulphur	Sulphur M2
Dithane 945 (12545)	12545	Mancozeb	80.00	Fungicide	Mancozeb M3
Fubol Gold WG	14605	Mancozeb/metalaxyl-M	64/3.88	Fungicide	Mancozeb M3
Manfil 80 WP	14766	Mancozeb	80	Fungicide	Mancozeb M3

« Prev 1 2 Next »

Back New Search