



Draft Assessment Report

Evaluation of Active Substances

Plant Protection Products

Prepared according to **Regulation (EC) 1107/2009**
as it applies in Great Britain

Elemental iron

Volume 3 – B.3 (PPP) – Final Bite

Great Britain

November 2021

Version History

When	What
November 2021	Initial DAR

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B.3. DATA ON APPLICATION AND EFFICACY

‘Final Bite’ is a molluscicide containing 10g/kg elemental iron as a ready to use bait (RB). This document summarises information related to the efficacy of elemental iron with the representative formulation Final Bite.

As this is the first submission for approval of the active substance elemental iron, a concise summary of the efficacy will be included. Detailed efficacy data will be provided in the subsequent product authorisation process when full biological assessment dossiers will be submitted and considered.

B.3.1. FIELD OF USE ENVISAGED

‘Final bite’ contains 10g/kg elemental iron and is a pre/post emergence molluscicide for use against slugs in cereals, oilseed rape, cabbage, kohlrabi, lettuce, Chinese cabbage, fruit crops, ornamentals, potato, root field crops, tuber field crops, sugar beet and combinable field crops. Use is also against snails in strawberry.

B.3.2. EFFECTS ON HARMFUL ORGANISMS

Elemental iron bait is ingested by the slug or snail. Contact with the low pH gastric digestive fluid inside the mollusc makes the elemental iron soluble. The iron binds to the [REDACTED] in the stomach and an iron salt complex is formed. The iron [REDACTED] causes slugs and snails to stop feeding by interrupting oxygen transport and causing oxidative stress/anoxia, resulting in death. Due to the mode of action of elemental iron no slimy secretions are observed on the soil surface and affected slugs will often go underground to die.

B.3.3. DETAILS OF INTENDED USE

ADAMA had proposed that Elemental iron was used in agriculture and horticulture on all edible crops (vegetables, fruit crops and arable crops) and non edible crops subjected to snail and slug pressure in the field and greenhouses. The following table summarises the intended uses below.

Crop and/ or situation (a)	Region	Product name	F G or I (b)	Pests or Group of pests controlled (c)	Formulation		Application				Application rate per treatment			PHI (days) (l)	Remarks: (m)
					Type	Conc. of as	Method Kind	Growth stage & season (j)	number min max (k)	interval between applications (days)	kg as/hl min max	water L/ha min max	kg as/ha min max		
All edible and non edible crops (outdoor & protected)	GB	Iron 1% RB	F/G/I	Molluscs	RB	10 g/kg	Spreading	When infestation appears (peak mainly in spring & autumn)	1-6	Minimum 5	Not applicable because the product is intended to be applied as a ready to use granular bait	Not applicable because the product is intended to be applied as a ready to use granular bait	0.08	Not required	Maximum Seasonal application rate 0.48 kg as/ha

Crop and/ or situation	Region	Product name	F G or I	Pests or Group of pests controlled	Formulation		Application				Application rate per treatment			PHI (days)	Remarks:
					Type	Conc. of as	Method Kind	Growth stage & season	number min max	interval between applications (days)	kg as/ha min max	water L/ha min max	kg as/ha min max		
(a)			(b)	(c)	(d-f)	(i)	(f-h)	(j)	(k)					(l)	(m)
Amenity Vegetation	GB	Iron 1% RB	F/G/I	Molluscs	RB	10 g/kg	Spreading	When infestation appears (peak mainly in spring & autumn)	1-6	Minimum 5	Not applicable because the product is intended to be applied as a ready to use granular bait	Not applicable because the product is intended to be applied as a ready to use granular bait	0.08	Not required	Maximum Seasonal application rate 0.48 kg as/ha

(a) For crops, the EU and Codex classifications (both) should be taken into account; where relevant, the use situation should be described (e.g. fumigation of a structure)

(b) Outdoor or field use (F), greenhouse application (G) or indoor application (I)

(c) e.g. biting and sucking insects, soil born insects, foliar fungi, weeds

(d) e.g. wettable (WP), emulsifiable concentrate (EC), granule (GR)

(e) CropLife International Technical Monograph no 2, 6th Edition. Revised May 2008. Catalogue of pesticide

(f) All abbreviations used must be explained

(g) Method, e.g. high volume spraying, low volume spraying, spreading, dusting, drench

(h) Kind, e.g. overall, broadcast, aerial spraying, row, individual plant, between the plant- type of equipment used must be indicated

(i) g/kg or g/L. Normally the rate should be given for the active substance (according to ISO) and not for the variant in order to compare the rate for same active substances used in different variants (e.g. fluoroxypyr). **In certain cases, where only one variant is synthesised, it is more appropriate to give the rate for the variant (e.g. benthiavalicarb-isopropyl).**

(j) Growth stage range from first to last treatment (BBCH Monograph, Growth Stages of Plants, 1997, Blackwell, ISBN 3-8263-3152-4), including where relevant, information on season at time of application

(k) Indicate the minimum and maximum number of applications possible under practical conditions of use

(l) The values should be given in g or kg whatever gives the more manageable number (e.g. 200 kg/ha instead of 200 000 g/ha or 12.5 g/ha instead of 0.0125 kg/ha)

(m) PHI - minimum pre-harvest interval

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Crop and/or situation (a)	Region	Product Name	F G I (b)	Pests or group of pests controlled (c)	Formulation		Application				Application rate per treatment			PHI (days) (l)	Remarks (m)
					Type (d-f)	Conc of a.i. g/kg (i)	Method kind (f-h)	Growth stage and season (j)	Number min max (k)	Interval between applications (min)	Kg a.i./ha min max (g/ha)	Water l/ha min max	Lk a.i./ha min max (*) (g/ha)		
Cereals (YCERE)	GB	Final bite	F	Slugs (DERORE, ARIOSS)	RB	10	Broadcast spreading	Pre emergence (BBCH00-08)	a)1 b)6	5 Days	a) 0.08 b) 0.48	N/A			Representative use
Oilseed rape (BRSNN)	GB	Final bite	F	Slugs (DERORE, ARIOSS)	RB	10	Broadcast spreading	Pre and post emergence (BBCH 00-14)	a)1 b)6	5 Days	a) 0.08 b) 0.48	N/A			Representative use
Cabbage (BRSOL)	GB	Final bite	F	Slugs (DERORE, ARIOSS)	RB	10	Broadcast spreading	Post emergence (BBCH 12-14)	a)1 b)6	5 Days	a) 0.08 b) 0.48	N/A			Representative use
Kohlrabi (BRSOG)	GB	Final bite	F	Slugs (DERORE, ARIOSS)	RB	10	Broadcast spreading	Post emergence (BBCH 14)	a)1 b)6	5 Days	a) 0.08 b) 0.48	N/A			Representative use
Lettuce (LACSA)	GB	Final bite	F	Slugs (DERORE, ARIOSS)	RB	10	Broadcast spreading	Post emergence (BBCH 13-16)	a)1 b)6	5 Days	a) 0.08 b) 0.48	N/A			Representative use
Chinese cabbage (BRSPK)	GB	Final bite	F	Slugs (DERORE, ARIOSS)	RB	10	Broadcast spreading	Post emergence (BBCH 12-14)	a)1 b)6	5 Days	a) 0.08 b) 0.48	N/A			Representative use
Strawberry (FRAAN)	GB	Final bite	F	Slugs and snails (HELXAS, CEPANE, DERORE, ARIOSS)	RB	10	Broadcast spreading	Post emergence (BBCH 87-99)	a)1 b)6	5 Days	a) 0.08 b) 0.48	N/A			Representative use
Fruit crops (3FRUC)	GB	Final bite	F	Slugs (DERORE, ARIOSS)	RB	10	Broadcast spreading	Post emergence (BBCH 87-99)	a)1 b)6	5 Days	a) 0.08 b) 0.48	N/A			Representative use
Ornamentals (3ORTC)	GB	Final bite	F	Slugs (DERORE, ARIOSS)	RB	10	Broadcast spreading	Post emergence (BBCH 12-51)	a)1 b)6	5 Days	a) 0.08 b) 0.48	N/A			Representative use
Potato (SOLTU)	GB	Final bite	F	Slugs (MILXBU)	RB	10	Broadcast spreading	Post emergence (BBCH 31-89)	a)1 b)6	5 Days	a) 0.08 b) 0.48	N/A			Representative use

Root vegetables (NNNVW)	GB	Final bite	F	Slugs (MILXBU)	RB	10	Broadcast spreading	Post emergence (BBCH 31-89)	a)1 b)6	5 Days	a) 0.08 b) 0.48	N/A			Representative use
Tubers (NNNZK)	GB	Final bite	F	Slugs (MILXBU)	RB	10	Broadcast spreading	Post emergence (BBCH 31-89)	a)1 b)6	5 Days	a) 0.08 b) 0.48	N/A			Representative use
Field crop plants (NNNAC)	GB	Final bite	F	Slugs (MILXBU, DERORE, ARIOSS)	RB	10	Broadcast spreading	Pre and Post emergence (BBCH 00-89)	a)1 b)6	5 Days	a) 0.08 b) 0.48	N/A			Representative use
Sugar beet (BEAVA)	GB	Final bite	F	Slugs (MILXBU)	RB	10	Broadcast spreading	Post emergence (BBCH 31-89)	a)1 b)6	5 Days	a) 0.08 b) 0.48	N/A			Representative use

- * For uses where the column „Remarks“ in marked in grey further consideration is necessary. Uses should be crossed out when the notifier no longer supports this use(s).
- (a) For crops, the EU and Codex classification (both) should be taken into account ; where relevant, the use situation should be described (e.g. fumigation of a structure)
- (b) Outdoor or field use (F), greenhouse application (G) or indoor application (I)
- (c) e.g. biting and suckling insects, soil born insects, foliar fungi, weeds
- (d) e.g. wettable powder (WP), emulsifiable concentrate (EC), granule (GR)
- (e) GCPF Codes – GIFAP Technical Monograph N° 2, 1989
- (f) All abbreviations used must be explained
- (g) Method, e.g. high volume spraying, low volume spraying, spreading, dusting, drench
- (h) Kind, e.g. overall, broadcast, aerial spraying, row, individual plant, between the plant – type of equipment used must be indicated
- (i) g/kg or g/L. Normally the rate should be given for the active substance (according to ISO) and not for the variant in order to compare the rate for same active substances used in different variants (e.g. fluoroxypyr). **In certain cases, where only one variant synthesised, it is more appropriate to give the rate for the variant (e.g. benthiavalicarb-isopropyl).**
- (j) Growth stage at last treatment (BBCH Monograph, Growth Stages of Plants, 1997, Blackwell, ISBN 3-8263-3152-4), including where relevant, information on season at time of application
- (k) Indicate the minimum and maximum number of application possible under practical conditions of use
- (l) The values should be given in g or kg whatever gives the more manageable number (e.g. 200 kg/ha instead of 200 000 g/ha or 12.5 g/ha instead of 0.0125 kg/ha)
- (m) PHI - minimum pre-harvest interval

The product is intended to be used at a rate of 8.0 Kilogram per Hectare.
This rate corresponds to a concentration of 0.08 Kg of Active Substance per Hectare.

Final bait is formulated as a ready to use bait (RB) and contains 10g/kg elemental iron. Please see the table presented above within the section titled “B.3.3 Details of intended use” according to Regulation (EC) 1107/2009, Article 4 (3).

Elemental iron containing products will be applied by pellet applicator machinery (this may be machine mounted or tractor drawn). Equipment must be calibrated to manufacturer instructions and in good working order. Application equipment is limited to the following spreaders (or comparable machines): Stocks Fan Jet Pro 65, Logic TFL or Bullock DeLimb T24. Acceptable pellet integrity has not been demonstrated for other application machinery.

The full UK assessment of the pellet integrity trials will be included in the corresponding product assessment ; however, it has been copied below for reference.

[illegible]

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B.3.6. NUMBER AND TIMING OF APPLICATIONS AND DURATION OF PROTECTION

The full UK assessment of the rainproofness trials will be included in the corresponding product assessment ; however, it has been copied below for reference.

EVALUATION, SUMMARY AND CONCLUSION BY REGULATORY AUTHORITY	
Name of authority	HSE Chemicals Regulation Division (CRD), UK
Reviewer's	Rainproof testing

s comments					

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Can be applied with a maximum individual dose of 8kg/ha with a maximum of 6 applications. Final bite provides protection during establishment for cereals, oilseeds, leafy vegetables and ornamentals, cabbage, kohlrabi, lettuce and Chinese cabbage applying at later growth stages may not provide any benefit. Apply during fruiting in soft fruit to reduce feeding damage. Apply from BBCH31-89 in potatoes and other root crops to reduce feeding damage to tubers.

Apply as a broadcast treatment as soon as damage is seen or indicated by test baiting. For some crops, e.g. cereals and oilseed rape, where slug activity is present prior to crop emergence, it is advised to treat the crop before emergence and after seed bed preparation is complete.

Application timing should be based on likely pest presence and the part of the crop attacked by the pest e.g. seeds, seedling plants or harvestable produce.

Repeat application may be required if pest pressure remains high.

B.3.9. EFFECTIVENESS

In the UK, the product evaluation of Final bite has been conducted in parallel with the active substance assessment. For efficacy, a more detailed assessment of effectiveness is within the product evaluation. However, HSE has summarised the conclusions of this assessment below.

The representative formulation Final bite has been tested in development trials between 2011- 2018. The results of the trials show acceptable efficacy against target slugs in a range of crops and limited data supports the use against snails in strawberry. Phytotoxicity assessments were also conducted in the efficacy trials.

Efficacy trials were conducted in the Maritime or North East EPPO zones, with a case presented by the applicant to support the inclusion of North East zone data. A mix of arena and field trials were presented.

Arena trials

Crop	EPPO Code	Number of trials	Year
Chinese chard	BRSCH	1	2017
Oilseed rape	BRSNN	2	2016-2017
Brussels sprouts	BRSEF	2	2017-2018
Cabbage	BRSOL	7	2018
Chrysanthemum	CHYSS	1	2018
Strawberry	FRASS	11	2017-2018
Hosta	HSTSS	2	2011, 2017
Lettuce	LACSA	6	2012, 2018
Marigolds	TAGSS	8	2017-2018
Garden pansy	VIOWH	2	2017

Field trials

Crop	EPPO Code	Number of trials	Year
Winter oilseed rape	BRSNW	18	2017-2018
Spring oilseed rape	BRSNS	1	2018
Kohlrabi	BRSOG	2	2017
Cabbage	BRSOL	7	2016-2018
Chinese cabbage	BRSPK	1	2017
Calendula	CLDSS	1	2017
Spring barley	HORVS	2	2018
Winter barley	HORVW	1	2018
Lettuce	LACSA	3	2017
Potato	SOLTU	10	2017-2018
Winter wheat	TRZAW	17	2017-2018

Trials were conducted in the UK, NL, PL, FR, BE, CZ and DE. All trials have been conducted according to EPPO standards by GEP accredited organisations. Trials were designed, conducted and reported in accordance with general EPPO standards PP1/95(4), PP1/135(4), PP1/152(4), PP1/289(1), and PP1/181(4) regarding design, analysis and reporting.

Applications were made at 8kg product/ha (corresponding to 80g elemental iron/ha). 1 Application was made in 41 trials and 2 applications were made in 25 trials, with an interval of 14-49 days depending on pest pressure. Efficacy was tested under a range of environmental conditions.

The effectiveness (measured in % plant damage or emergence) of Final bite applied at the proposed rate was comparable to or higher than that of the commercial standard reference products used. Overall the applicant provided sufficient data to demonstrate acceptable effectiveness at the proposed GAP against a range of slug species and limited data against snails in strawberry.

The full UK assessment of the effectiveness trials will be included in the corresponding product assessment ; however, it has been copied below for reference.

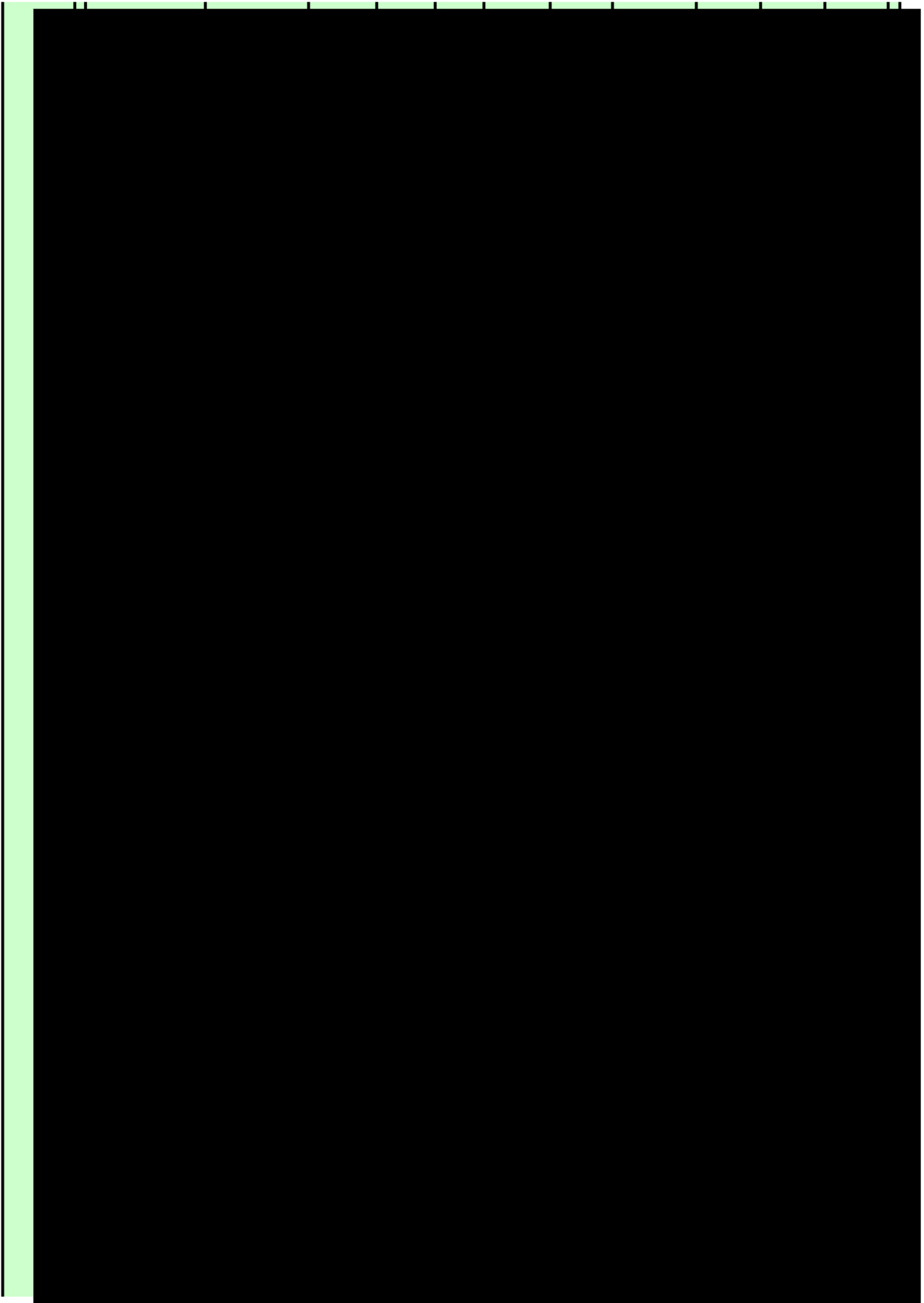
EVALUATION, SUMMARY AND CONCLUSION BY REGULATORY AUTHORITY	
Name of authority	HSE Chemicals Regulation Division (CRD), UK
Reviewer's comments	<p><u>EFFICACY- SLUGS</u></p> <p>The Applicant has made a case for the inclusion of data from Poland (North East zone), this is acceptable as crops, slug species and climatic conditions are similar to the UK. Trials were in the most part conducted to EPPO standard PP1/95(4) Slugs. The data are therefore presented below as further support (although noted that in a number of comparisons there is a trend for higher levels of efficacy in the Polish trials). Because elemental iron is classified as 'low risk', a reduced number of trials is permitted to support major uses, and therefore the primary evidence comes from the Maritime trials.</p> <p>Some caged arable trials were conducted and these are not acceptable. Arena trials are acceptable for the horticultural crops. Assessments were made based on the damage shown on the plants, with reduction of severity and incidence compared to the untreated control monitored. Label claims are for a reduction in feeding damage.</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>

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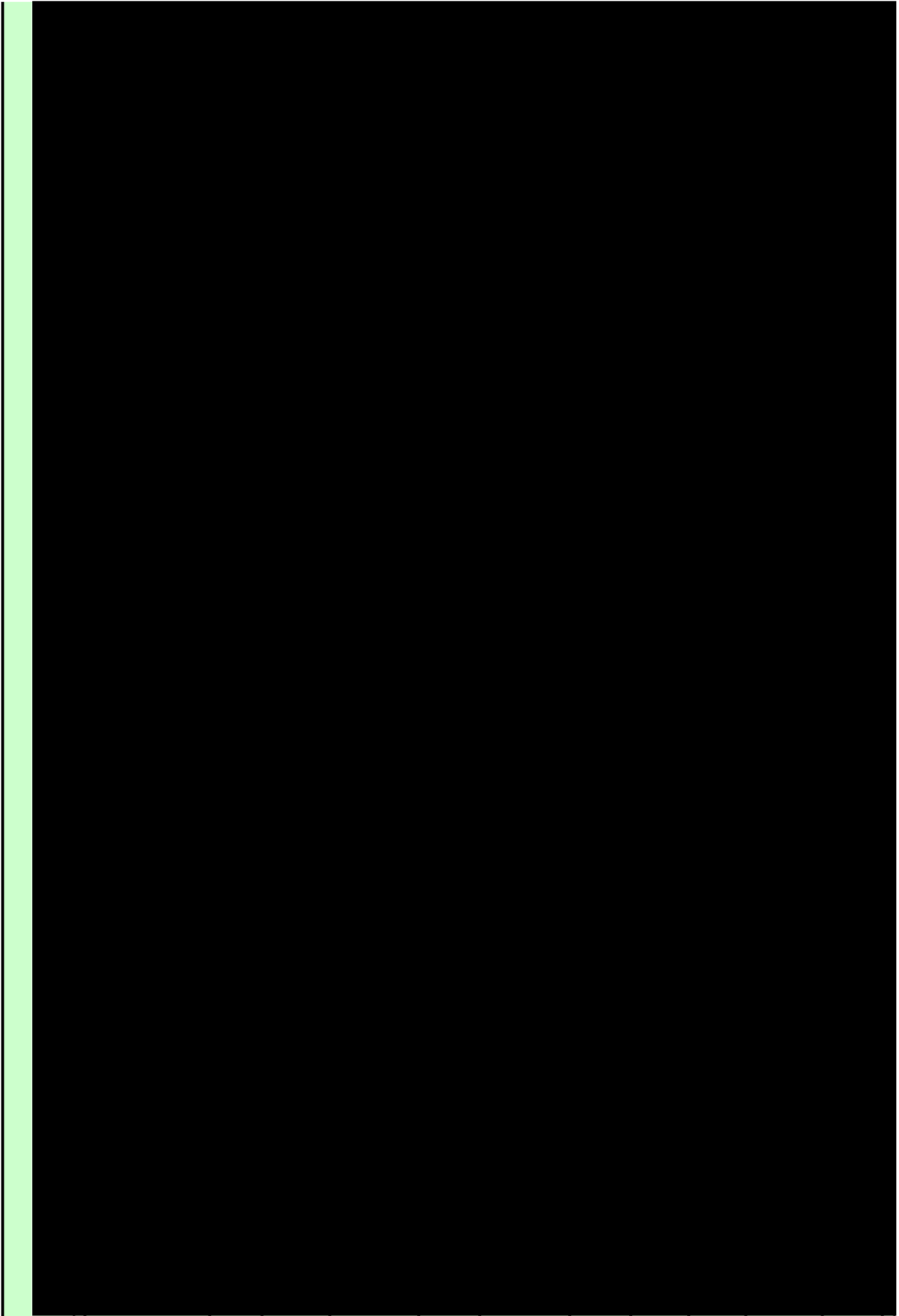
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

















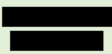













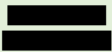













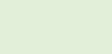









































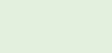













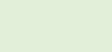













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



















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Overall conclusion

Sufficient evidence was provided on a range of slug species from a combination of field and semi-field studies to support a number of crops. Evidence came primarily from the ‘Maritime’ trials, with support from NE (Polish) trials, although noting a general trend for higher levels of efficacy (however expressed). There is a natural degree of variability, but this is to be expected given the mode of action and type of assessments made (largely relating to aspects of plant damage), and ‘Final Bite’ was comparable to the commercial ferric sulphate standard.

The proposed GAP table and draft label express uses as ‘all edible and non-edible crops’. This is a broad term no longer acceptable and crops must be supported by data or extrapolation to be included on the label. This is to promote targeted, responsible use of molluscicide products by ensuring the label reflects the relevant uses. EPPO PP 1/95(4) provides specific information on key crops which allow wide ranging group uses.

The table below shows the acceptable supported crops and if this is based on the submitted data or extrapolation. The extrapolation table was Table 1 from EPPO standard PP1/95(4), and it indicates which are the key supported indicator crops (in yellow) which allow wider extrapolation possibilities

CROP	BBCH	DATA/EXTRAPOLATION
Oilseed Rape BRSNN	BBCH0-14	DATA
Winter Wheat TRZAW	PRE EM	DATA
Winter barley HORVW	PRE EM	EXTRAPOLATION FROM TRZAW
CEREALS	PRE EM	EPPO PERMITS EXTRAPOLATION FROM TRZAW
Cabbage BRSOL	BBCH12-14	DATA
Kohlrabi BRSOG	BBCH14	1 TRIAL + EXTRAPOLATION FROM BRSOL
Lettuce LACSA	BBCH13-16	DATA
Chinese cabbage BRSPK	BBCH12-14	EXTRAPOLATION FROM BRSOL
Strawberry FRAAN	BBCH87-99	DATA
ALL FRUIT CROPS	BBCH87-99	EPPO PERMITS EXTRAPOLATION FROM FRAAN
ORNAMENTALS	BBCH12-51	DATA (SUSCEPTIBLE CROPS-FRENCH MARIGOLD, MARIGOLDS, GARDEN PANSY), PERMITS EXTRAPOLATION TO ALL ORNAMENTALS
Potato SOLTU	BBCH31-89	DATA
ALL ROOT AND TUBER FIELD CROPS	BBCH31-89	EPPO PERMITS EXTRAPOLATION FROM SOLTU

ATTACKED BY KEELED SLUG SPECIES										
ALL COMBINABLE FIELD CROPS, SUGAR BEET, POTATO AND OTHER ROOT/TUBER FIELD CROPS		BBCH0- 89	EPPO PERMITS EXTRAPOLATION FROM OILSEED RAPE, WHEAT AND POTATO.							
EFFICACY- SNAILS										

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





































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Conclusion

_____ sufficient data has been provided to support a label claim of _____ moderate control of snails in strawberries.

Item	Category	Quantity	Unit Price	Subtotal	Tax	Total	Discount	Final Total	Payment Method
Apple iPhone 12	Electronics	1	\$1,200.00	\$1,200.00	\$120.00	\$1,320.00	\$50.00	\$1,270.00	Credit Card
Samsung Galaxy S21	Electronics	1	\$800.00	\$800.00	\$80.00	\$880.00	\$30.00	\$850.00	Credit Card
Apple Watch Series 7	Electronics	1	\$400.00	\$400.00	\$40.00	\$440.00	\$15.00	\$425.00	Credit Card
MacBook Pro 16"	Electronics	1	\$2,500.00	\$2,500.00	\$250.00	\$2,750.00	\$100.00	\$2,650.00	Credit Card
Microsoft Surface Pro 9	Electronics	1	\$1,000.00	\$1,000.00	\$100.00	\$1,100.00	\$40.00	\$1,060.00	Credit Card
Google Pixel 6 Pro	Electronics	1	\$700.00	\$700.00	\$70.00	\$770.00	\$25.00	\$745.00	Credit Card
Amazon Echo Dot	Electronics	1	\$50.00	\$50.00	\$5.00	\$55.00	\$2.00	\$53.00	Credit Card
Apple AirPods Pro	Electronics	1	\$250.00	\$250.00	\$25.00	\$275.00	\$10.00	\$265.00	Credit Card
Sony WH-1000XM4	Electronics	1	\$350.00	\$350.00	\$35.00	\$385.00	\$15.00	\$370.00	Credit Card
Logitech MX Master 3	Electronics	1	\$150.00	\$150.00	\$15.00	\$165.00	\$5.00	\$160.00	Credit Card
Apple iPad Pro 12.9"	Electronics	1	\$1,100.00	\$1,100.00	\$110.00	\$1,210.00	\$45.00	\$1,165.00	Credit Card
Microsoft Xbox Series X	Electronics	1	\$500.00	\$500.00	\$50.00	\$550.00	\$20.00	\$530.00	Credit Card
PlayStation 5	Electronics	1	\$500.00	\$500.00	\$50.00	\$550.00	\$20.00	\$530.00	Credit Card
Google Nest Learning Thermostat	Electronics	1	\$200.00	\$200.00	\$20.00	\$220.00	\$8.00	\$212.00	Credit Card
Amazon Fire TV Stick 4K	Electronics	1	\$50.00	\$50.00	\$5.00	\$55.00	\$2.00	\$53.00	Credit Card
Apple TV 4K	Electronics	1	\$150.00	\$150.00	\$15.00	\$165.00	\$5.00	\$160.00	Credit Card
Samsung SmartThings Hub	Electronics	1	\$100.00	\$100.00	\$10.00	\$110.00	\$4.00	\$106.00	Credit Card
Google Home Mini	Electronics	1	\$50.00	\$50.00	\$5.00	\$55.00	\$2.00	\$53.00	Credit Card
Amazon Echo Show 5	Electronics	1	\$150.00	\$150.00	\$15.00	\$165.00	\$5.00	\$160.00	Credit Card
Apple HomePod mini	Electronics	1	\$100.00	\$100.00	\$10.00	\$110.00	\$4.00	\$106.00	Credit Card
Sony WH-1000XM5	Electronics	1	\$400.00	\$400.00	\$40.00	\$440.00	\$15.00	\$425.00	Credit Card
Logitech MX Keys	Electronics	1	\$100.00	\$100.00	\$10.00	\$110.00	\$4.00	\$106.00	Credit Card
Apple Watch SE	Electronics	1	\$250.00	\$250.00	\$25.00	\$275.00	\$10.00	\$265.00	Credit Card
Samsung Galaxy Z Fold 3	Electronics	1	\$1,800.00	\$1,800.00	\$180.00	\$1,980.00	\$75.00	\$1,905.00	Credit Card
Google Pixel Fold	Electronics	1	\$1,500.00	\$1,500.00	\$150.00	\$1,650.00	\$60.00	\$1,590.00	Credit Card
Microsoft Surface Duo 2	Electronics	1	\$700.00	\$700.00	\$70.00	\$770.00	\$30.00	\$740.00	Credit Card
Amazon Kindle Paperwhite	Electronics	1	\$130.00	\$130.00	\$13.00	\$143.00	\$5.00	\$138.00	Credit Card
Apple iPad Air	Electronics	1	\$500.00	\$500.00	\$50.00	\$550.00	\$20.00	\$530.00	Credit Card
Microsoft Xbox Game Pass Ultimate	Electronics	1	\$15.00	\$15.00	\$1.50	\$16.50	\$0.50	\$16.00	Credit Card
PlayStation Plus	Electronics	1	\$10.00	\$10.00	\$1.00	\$11.00	\$0.40	\$10.60	Credit Card
Google One Storage 100GB	Electronics	1	\$100.00	\$100.00	\$10.00	\$110.00	\$4.00	\$106.00	Credit Card
Amazon Prime Video	Electronics	1	\$139.00	\$139.00	\$13.90	\$152.90	\$6.00	\$146.90	Credit Card
Apple Music	Electronics	1	\$10.00	\$10.00	\$1.00	\$11.00	\$0.40	\$10.60	Credit Card
Samsung SmartThings	Electronics	1	\$100.00	\$100.00	\$10.00	\$110.00	\$4.00	\$106.00	Credit Card
Google Home	Electronics	1	\$100.00	\$100.00	\$10.00	\$110.00	\$4.00	\$106.00	Credit Card
Amazon Echo	Electronics	1	\$100.00	\$100.00	\$10.00	\$110.00	\$4.00	\$106.00	Credit Card
Apple HomeKit	Electronics	1	\$100.00	\$100.00	\$10.00	\$110.00	\$4.00	\$106.00	Credit Card
Sony WH-1000XM6	Electronics	1	\$450.00	\$450.00	\$45.00	\$495.00	\$18.00	\$477.00	Credit Card
Logitech MX Anywhere 3	Electronics	1	\$80.00	\$80.00	\$8.00	\$88.00	\$3.00	\$85.00	Credit Card

Overall conclusion for snails

Snails are a minor pest in UK crops, but can cause significant quality issues in horticultural crops. Data provided is sufficient to support a label claim in strawberries only in the UK. For the other crops data was provided for data showed an insufficient level of control to support a claim. **To support a label claim for snails in these crops in the future a minimum of 2 trials per claimed crop must be provided showing an acceptable level of control.**

Field trials have been conducted to demonstrate the crop safety of Final bite. These trials were carried out on oilseed rape (2 trials), broccoli (1 trial), cabbage (3 trials), strawberry (2 trials), lettuce (2 trials), marigold (2 trials) and winter wheat (2 trials). Observations were also made in 48 efficacy trials. The trials were designed and conducted according to approved EPPO standards.

Efficacy and crop safety of the representative uses have been demonstrated. This is sufficient to meet the requirements set with Regulation 1107. However, the individual claims and uses will be assessed at product evaluation.

This is in line with the principles established in SANCO/10054/2013 - rev. 3 'Guidance Document on Data Requirements on Efficacy for the Dossier to be Submitted for the Approval of New Active Substances Contained in Plant Protection Products' where the 'principal objective of the efficacy evaluation of an active substance is to confirm that the doses are realistic for the GAP submitted for risk evaluation and approval and representative for all subsequent authorisations.'

In the UK, the product evaluation of Final bite has been conducted in parallel with the active substance assessment. For efficacy, a more detailed assessment of crop safety is conducted within the product evaluation. However, the appropriate evaluation is included below for reference.

EVALUATION, SUMMARY AND CONCLUSION BY REGULATORY AUTHORITY	
Name of authority	HSE Chemicals Regulation Division (CRD), UK
Reviewer's comments	<p><u>Phytotoxicity</u></p> <p>14 pest free selectivity trials were conducted in 2018, it would have been preferable for data to be provided from multiple years. The units given in table 6.4.1-2 of the BAD for the 'max rate of elemental iron applied (g ai/ha)' is wrong, the figures given in this column are the kg/ha of product applied.</p> <p>In a total of 78 Maritime efficacy trials at the proposed rate (8kg/ha) and 1 Maritime efficacy trial at 10kg/ha no phytotoxicity was recorded in any trial (31 arena trials and 48 field trials) in a variety of crops.</p> <p>In 11 Maritime selectivity trials (1N and 2N rates) in a variety of crops no phytotoxicity was recorded in any trial.</p> <p>This is acceptable and no further data are required.</p> <p><u>Quality</u></p> <p>The applicant has made a case that as no phytotoxicity was recorded in any of the efficacy trials or in the selectivity trials at 1N or 2N there is unlikely to be any impact on quality.</p> <p>The range of crops which have shown no phytotoxicity also adds to the case. As this product is not sprayed onto the plants and is not taken up by the leaves or root of the plant it is considered unlikely to have a negative impact.</p> <p>However, it is possible that lodged pellets can cause localized visual discolourations etc on the plant. EPPO 1/95(4) notes that any observed effects of pellets lodged with-in the crop should be reported. It is not clear from the details, whether this was included as an assessment in the trials – there is no statement clarifying this. However, applications in BRSOL, BRSG, LACSA and BRSPK are all before BBCH20, so plants are less developed and more unlikely to experience lodging.</p> <p>This is acceptable and no further data are required .</p>

B.3.12. OBSERVATIONS ON OTHER UNDESIRABLE OR UNINTENDED SIDE-EFFECTS

No undesirable or unintended side effects were reported in any of the trials provided. Further, the lack of inherent herbicidal properties, and method of application, makes possible impacts on succeeding or adjacent crops unlikely.

B.3.13. REFERENCES RELIED ON

Data Point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation