

REGISTRATION REPORT

Part A

Risk Management

Product code: -

Product name: RATRON GL

Active substance:

zinc phosphide, 8 g/kg

COUNTRY: FRANCE

Southern Zone

Zonal Rapporteur Member State: France

NATIONAL ASSESSMENT FRANCE

(New application)

Applicant: Frunol delicia GmbH

Date: 19/01/2018

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PART A – Risk Management

The company Frunol delicia GmbH has requested marketing authorisation in France for the product RATRON GL (no formulation code is stated), containing 8 g/L zinc phosphide¹ for use as a rodenticide (professional use).

The risk assessment conclusions are based on the information, data and assessments provided in Registration Report, Part B Sections 1-7 and Part C, and where appropriate the addenda for France. The information, data and assessments provided in Registration Report, Part B include assessment of further data or information as required at national registration by the EU peer review. It also includes assessment of data and information relating to RATRON GL where those data have not been considered in the EU peer review process. Otherwise assessments for the safe use of RATRON GL have been made using endpoints agreed in the EU peer review of zinc phosphide.

This document describes the specific conditions of use and labelling required for France for the registration of RATRON GL.

Appendix 1 of this document provides a copy of the French Decision.

Appendix 2 of this document is a copy of the draft product label as proposed by the applicant.

Appendix 3 of this document is a copy of the letter(s) of Access.

1 DETAILS OF THE APPLICATION

1.1 Application background

The present registration report concerns the evaluation of Frunol delicia GmbH's application to market RATRON GL in France as a rodenticide (product uses described under point 2.3). France acted as a zonal Rapporteur Member State (zRMS) for this request and assessed the application submitted for the first authorisation of this product in France and in other MSs of the Southern zone.

1.2 Active substance approval

Zinc phosphide

Commission Implementing Regulation (EU) No 540/2011 of 25 May 2011 implementing Regulation (EC) No 1107/2009 of the European Parliament and of the Council as regards the list of approved active substances.

Specific provisions of Regulation (EU) No 540/2011 were as follows:

PART A

Only uses as rodenticide in the form of ready-to-use baits placed in bait stations or target locations may be authorised.

PART B

For the implementation of the uniform principles as referred to in Article 29(6) of Regulation (EC) No 1107/2009, the conclusions of the review report on zinc phosphide, and in particular Appendices I and II thereof, as finalised in the Standing Committee on the Food Chain and Animal Health on 28 October 2010 shall be taken into account.

In this overall assessment Member States should pay particular attention to:

— the protection of non target organisms. Risk mitigation measures should be applied as appropriate in particular to avoid the spread of baits where only part of the content has been consumed.

¹ The IUPAC name is trizinc diphosphide.

An EFSA conclusion is available (EFSA Journal 2010; 8(7):1671).

A Review Report is available (SANCO/12548/2010 final, 28 October 2010).

1.3 Regulatory approach

The present application (2013-1300) was evaluated in France by the French Agency for Food, Environmental and Occupational Health & Safety (Anses)² in the context of the zonal procedure for all Member States of the Southern zone, taking into account the worst-case uses (“risk envelope approach”)³ – the highest application rates over the Southern zone. When risk mitigation measures were necessary, they are adapted to the situation in France.

According to the French law and procedures, specific conditions of use are set out in the Decision letter.

The French Order of 4th May 2017⁴ provides that:

- unless formally stated in the product authorisation, the pre harvest interval (PHI) is at least three days;
- unless formally stated in the product authorisation, the minimum buffer zone alongside a water body is five metres;
- unless formally stated in the product authorisation, the minimum re-entry period is six hours for field uses and eight hours for indoor uses.

Drift reduction measures such as low-drift nozzles are not considered within the decision-making process in France. However, drift buffer zones may be reduced under some circumstances as explained in Appendix 3 of the above-mentioned French Order.

The current document (RR) based on Anses’s assessment of the application submitted for this product is in compliance with Regulation (EC) no 1107/2009⁵, implementing regulations, and French regulations.

The data taken into account are those deemed to be valid either at European Union level or at zonal/national level. This part A of the RR presents a summary of essential scientific points upon which recommendations are based and is not intended to show the assessment in detail.

The conclusions relating to the acceptability of risk are based on the criteria indicated in Regulation (EU) No 546/2011⁶, and are expressed as “acceptable” or “not acceptable” in accordance with those criteria.

Finally, the French Order of 26 March 2014⁷ provides that:

- an authorisation granted for a “reference” crop applies also for “linked” crops, unless formally stated in the Decision
- the “reference” and “linked” crops are defined in Appendix 1 of that French Order.

Thus, at French national level, possible extrapolation of submitted data and the corresponding assessment from “reference” crops to “linked” ones are undertaken even if not clearly requested by the applicant in their dRR, and a conclusion is reached on the acceptability of the intended uses on those “linked” crops. The aim of this Order, mainly based on the EU document on residue data extrapolation⁸ is to supply “minor” crops with registered plant protection products.

² French Food Safety Agency, Afssa, before 1 July 2010

³ SANCO document “risk envelope approach”, European Commission (14 March 2011). Guidance document on the preparation and submission of dossiers for plant protection products according to the “risk envelope approach”; SANCO/11244/2011 rev. 5

⁴ Arrêté du 4 mai 2017 relatif à la mise sur le marché et à l'utilisation des produits phytopharmaceutiques et de leurs adjuvants visés à l'article L. 253-1 du code rural et de la pêche maritime <https://www.legifrance.gouv.fr/eli/arrete/2017/5/4/AGRGI632554A/jo/texte>

⁵ REGULATION (EC) No 1107/2009 of the European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC

⁶ COMMISSION REGULATION (EU) No 546/2011 of 10 June 2011 implementing Regulation (EC) No 1107/2009 of the European Parliament and of the Council as regards uniform principles for evaluation and authorisation of plant protection products

⁷ <http://www.legifrance.gouv.fr/eli/arrete/2014/3/26/AGRGI407093A/jo>

⁸ SANCO document “guidance document: Guidelines on comparability, extrapolation, group tolerances and data requirements for setting MRLs”: SANCO/ 7525/VI/95 - rev.9

Therefore the GAP table (Section 2.3) and Decision may include uses on crops not originally requested by the applicant.

The Decision, as reproduced in Appendix 1, takes also into account national provisions, including national mitigation measures.

1.4 Data protection claims

Where protection for data is being claimed for information supporting registration of RATRON GL, it is indicated in the reference lists in Appendix 1 of the Registration Report, Part B Sections 1-7.

1.5 Letter(s) of Access

Not necessary: the applicant has provided sufficient data to show that access is not required.

2 DETAILS OF THE AUTHORISATION

2.1 Product identity


Product name (code)	RATRON GL (<i>synonym: RATRON GIFT-LINSEN</i>)
Authorisation number	2170697
Function	Rodenticide (professional use)
Applicant	Frunol delicia GmbH
Composition	8 g/kg zinc phosphide
Formulation type (code)	Granular bait (GB)
Packaging	Polypropylene bucket with lid, containing 0.5 kg and 2.5 kg product Polyethylene terephthalate bottle with cap, containing 0.75 g product Multilayer polyethylene/paper drum with lid, containing 8 kg product

2.2 Classification and labelling

2.2.1 Classification and labelling under Directive 99/45/EC

Not applicable after 1st June 2015.

2.2.2 Classification and labelling in accordance with Regulation (EC) No1272/2008

Physical hazards	-	
Health hazards	-	
Environmental hazards	Hazardous to the aquatic environment — Acute Hazard, Category 1 Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Hazard pictograms		
Signal word	Warning	
	H400	Very toxic to aquatic life
	H410	Very toxic to aquatic life with long-lasting effects
Precautionary statements –	<i>For the P phrases, refer to the extant legislation</i>	
Supplementary information (in accordance with Article 25 of Regulation (EC) No 1272/2008)	EUH032	Contact with acids liberates very toxic gas

See Part C for justifications of the classification and labelling proposals.

2.2.3 Other phrases in compliance with Regulation (EU) No 547/2011

The authorisation of the preparation is linked for professional uses only to the following conditions:

SP 1	Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.
SPe 6	To protect birds/wild mammals, remove spillages.

2.2.4 Other phrases linked to the preparation

Wear suitable personal protective equipment ⁹ : refer to the Decision in Appendix 1 for the details.
Re-entry period ¹⁰ : Not applicable for this type of product (ready-to-use granular bait).
Pre-harvest interval ¹¹ : Not applicable.
Other mitigation measures: <ul style="list-style-type: none">- Usage of RATRON GL is limited to uses in plant protection encompassed by Regulation (EC) No 1107/2009.-
The label must include the following recommendations: <ul style="list-style-type: none">-
The label must reflect the conditions of authorisation.

⁹ If a tractor with cab is used, wearing gloves during application is only required when working with the spray mixture

¹⁰ The legal basis for this is **Titre I Article 3** of the French Order of 4th May 2017 concerning the marketing and use of products encompassed by article L. 253-1 of the rural code [that is, plant protection products/pesticides]

¹¹ According to the French Order of 4th May 2017, PHI cannot be lower than 3 days unless specifically stated in the assessment and decision.

2.3 Product uses

Please note: The GAP Table below reports the intended uses proposed by the applicant, and possible extrapolation according to French Order of 26 March 2014 (highlighted in green), evaluated and concluded as safe uses by France as zRMS. Those uses are then granted in France.

When the conclusion is “not acceptable”, the intended use is highlighted in grey and the main reason(s) reported in the remarks.

When a use is “acceptable” with GAP restrictions, the modifications of the GAP are in bold.

Use should be crossed out when the applicant no longer supports this use.

PPP (product name/code) **RATRON GL/(no product code)**
active substance 1 **zinc phosphide**
Applicant: **Frunol delicia GmbH**
Zone(s): **southern EU**
Verified by MS: **yes**
Field of use: **rodenticide**

Formulation type:
Conc. of a.s. 1:
professional use
non-professional use

GAP rev. 1, date: 2017-september-15

Granular bait (GB)

8 g/kg

☒

☐

1	2	3	4	5	6	7	8	10	11	12	13	14
Use- No.	Member state(s))**	Crop and/ or situation (crop destination/purpose of crop)	F G or I	Pests or Group of pests controlled (additionally: developmental stages of the pest or pest group)	Application			Application rate			PHI (days)	Remarks: e.g. g safener/synergist per ha
					Method/Kin d	Timing/Growth stage of crop & season	Max. number (min. interval between applications) a) per use b) per crop/ season	kg, L product/ha a) max. rate per appl. b) max. total rate per crop/season	g, kg as/ha a) max. rate per appl. b) max. total rate per crop/season	Water L/ha min/max		
1	France	Agriculture	F	<i>Microtus arvalis</i> <i>Microtus agrestis</i>	placing of 5 baits in vole hole	all stages	a) n.a. b) n.a.)*	a) n.a. b) 2.0	a) n.a. b) 0.016	n.a.	n.a.	Acceptable
2	France	Grassland	F	<i>Microtus arvalis</i> <i>Microtus agrestis</i>	placing of 5 baits in vole hole	all stages	a) n.a. b) n.a.)*	a) n.a. b) 2.0	a) n.a. b) 0.016	n.a.	n.a.	Acceptable
3	France	Vegetables	F	<i>Microtus arvalis</i> <i>Microtus agrestis</i>	placing of 5 baits in vole hole	all stages	a) n.a. b) n.a.)*	a) n.a. b) 2.0	a) n.a. b) 0.016	n.a.	n.a.	Acceptable
4	France	Non-cultivated area) ¹	F	<i>Microtus arvalis</i> <i>Microtus agrestis</i>	placing of 5 baits in vole hole	all stages	a) n.a. b) n.a.)*	a) n.a. b) 2.0	a) n.a. b) 0.016	n.a.	n.a.	Acceptable
5	France	Agriculture	F	<i>Microtus arvalis</i> <i>Microtus agrestis</i>	100 g bait per baiting place	all stages	a) n.a. b) n.a.)*	a) n.a. b) 2.5	a) n.a. b) 0.020	n.a.	n.a.	Acceptable
6	France	Grassland	F	<i>Microtus arvalis</i> <i>Microtus agrestis</i>	100 g bait per baiting place	all stages	a) n.a. b) n.a. *	a) n.a. * b) 2.5	a) n.a. b) 0.020	n.a.	n.a.	Acceptable

1	2	3	4	5	6	7	8	10	11	12	13	14
Use- No.	Member state(s))**	Crop and/ or situation (crop destination/purpose of crop)	F G or I	Pests or Group of pests controlled (additionally: developmental stages of the pest or pest group)	Application			Application rate			PHI (days)	Remarks: e.g. g safener/synergist per ha
					Method/Kin d	Timing/Growth stage of crop & season	Max. number (min. interval between applications) a) per use b) per crop/ season	kg, L product/ha a) max. rate per appl. b) max. total rate per crop/season	g, kg as/ha a) max. rate per appl. b) max. total rate per crop/season	Water L/ha min/max		
7	France	Vegetables	F	<i>Microtus arvalis</i> <i>Microtus agrestis</i>	100 g bait per baiting place	all stages	a) n.a. b) n.a. *	a) n.a. * b) 2.5	a) n.a. b) 0.020	n.a.	n.a.	Acceptable
8	France	Non-cultivated area	F	<i>Microtus arvalis</i> <i>Microtus agrestis</i>	100 g bait per baiting place	all stages	a) n.a. b) n.a. *	a) n.a. * b) 2.5	a) n.a. b) 0.020	n.a.	n.a.	Acceptable
9	France	Orchard	F	<i>Microtus arvalis</i> <i>Microtus agrestis</i> <i>Clethrionomys glareolus</i>	placing of 5 baits in vole hole	all stages	a) n.a. b) n.a. *	a) n.a. * b) 2.0	a) n.a. b) 0.016	n.a.	n.a.	Acceptable
10	France	Vineyard	F	<i>Microtus arvalis</i> <i>Microtus agrestis</i> <i>Clethrionomys glareolus</i>	placing of 5 baits in vole hole	all stages	a) n.a. b) n.a. *	a) n.a. * b) 2.0	a) n.a. b) 0.016	n.a.	n.a.	Acceptable
11	France	Forestry	F	<i>Microtus arvalis</i> <i>Microtus agrestis</i> <i>Clethrionomys glareolus</i>	placing of 5 baits in vole hole	all stages	a) n.a. b) n.a. *	a) n.a. * b) 2.0	a) n.a. b) 0.016	n.a.	n.a.	Acceptable
12	France	Ornamentals	F	<i>Microtus arvalis</i> <i>Microtus agrestis</i> <i>Clethrionomys glareolus</i>	placing of 5 baits in vole hole	all stages	a) n.a. b) n.a. *	a) n.a. * b) 2.0	a) n.a. b) 0.016	n.a.	n.a.	Acceptable
13	France	Orchard	F	<i>Microtus arvalis</i> <i>Microtus agrestis</i> <i>Clethrionomys glareolus</i>	100 g bait per baiting place	all stages	a) n.a. b) n.a. *	a) n.a. * b) 2.5	a) n.a. b) 0.020	n.a.	n.a.	Acceptable
14	France	Vineyard	F	<i>Microtus arvalis</i> <i>Microtus agrestis</i> <i>Clethrionomys glareolus</i>	100 g bait per baiting place	all stages	a) n.a. b) n.a. *	a) n.a. * b) 2.5	a) n.a. b) 0.020	n.a.	n.a.	Acceptable
15	France	Forestry	F	<i>Microtus arvalis</i> <i>Microtus agrestis</i> <i>Clethrionomys glareolus</i>	100 g bait per baiting place	all stages	a) n.a. b) n.a. *	a) n.a. * b) 2.5	a) n.a. b) 0.020	n.a.	n.a.	Acceptable
16	France	Ornamentals	F	<i>Microtus arvalis</i> <i>Microtus agrestis</i> <i>Clethrionomys glareolus</i>	100 g bait per baiting place	all stages	a) n.a. b) n.a. *	a) n.a. * b) 2.5	a) n.a. b) 0.020	n.a.	n.a.	Acceptable
17	France	Forestry	F	<i>Microtus arvalis</i> <i>Microtus agrestis</i> <i>Clethrionomys glareolus</i>	broadcast in foil bags	young plants	a) n.a. b) n.a.)*	a) n.a.)* b) 5.0	a) n.a.)* b) 0.040	n.a.	n.a.	Not acceptable (Risk for birds/wild mammals)
29	France	Ornamentals	G	<i>Microtus arvalis</i> <i>Microtus agrestis</i> <i>Clethrionomys glareolus</i>	placing of 5 baits in vole hole	all stages	a) n.a. b) n.a. *	a) n.a. * b) 2.0	a) n.a. b) 0.016	n.a.	n.a.	Acceptable

1	2	3	4	5	6	7	8	10	11	12	13	14
Use- No.	Member state(s))**	Crop and/ or situation (crop destination/purpose of crop)	F G or I	Pests or Group of pests controlled (additionally: developmental stages of the pest or pest group)	Application			Application rate			PHI (days)	Remarks: e.g. g safener/synergist per ha
					Method/Kin d	Timing/Growth stage of crop & season	Max. number (min. interval between applications) a) per use b) per crop/ season	kg, L product/ha a) max. rate per appl. b) max. total rate per crop/season	g, kg as/ha a) max. rate per appl. b) max. total rate per crop/season	Water L/ha min/max		
30	France	Ornamentals	G	<i>Microtus arvalis</i> <i>Microtus agrestis</i> <i>Clethrionomys glareolus</i>	100 g bait per baiting place	all stages	a) n.a. b) n.a. *	a) n.a. * b) 2.5	a) n.a. b) 0.020	n.a.	n.a.	Acceptable
31	France	Orchard	G	<i>Microtus arvalis</i> <i>Microtus agrestis</i> <i>Clethrionomys glareolus</i>	placing of 5 baits in vole hole	all stages	a) n.a. b) n.a. *	a) n.a. * b) 2.0	a) n.a. b) 0.016	n.a.	n.a.	Acceptable
32	France	Orchard	G	<i>Microtus arvalis</i> <i>Microtus agrestis</i> <i>Clethrionomys glareolus</i>	100 g bait per baiting place	all stages	a) n.a. b) n.a. *	a) n.a. * b) 2.5	a) n.a. b) 0.020	n.a.	n.a.	Acceptable
33	France	Vegetables	G	<i>Microtus arvalis</i> <i>Microtus agrestis</i>	placing of 5 baits in vole hole	all stages	a) n.a. b) n.a. *	a) n.a. * b) 2.0	a) n.a. b) 0.016	n.a.	n.a.	Acceptable
34	France	Vegetables	G	<i>Microtus arvalis</i> <i>Microtus agrestis</i>	100 g bait per baiting place	all stages	a) n.a. b) n.a. *	a) n.a. * b) 2.5	a) n.a. b) 0.020	n.a.	n.a.	Acceptable

F: The pre-harvest interval for the envisaged area of application is covered by the application conditions and/or growing period remaining between the envisaged application and harvest; it is not necessary to lay down/indicate a pre-harvest interval in days (F)

N = pre-harvest interval not relevant due to the indication

*: applications should be repeated until baits are not consumed (respecting maximum total rate per crop/season)

Remarks:

- (a) For crops, the EU and Codex classifications (both) should be used; where relevant, the use situation should be described (e.g. fumigation of a structure)
- (b) Outdoor or field use (F), glasshouse 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 No 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 plants - type of equipment used must be indicated

- (i) g/kg or g/l
- (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) The minimum and maximum number of application possible under practical conditions of use must be provided
- (l) PHI - minimum pre-harvest interval
- (m) Remarks may include: Extent of use/economic importance/restrictions

3 RISK MANAGEMENT

3.1 Reasoned statement of the overall conclusions taken in accordance with the Uniform Principles

3.1.1 Physical and chemical properties

The formulation RATRON GL is a ready-to-use granular bait (GB) formulation. All studies have been performed in accordance with the current requirements and the results are deemed acceptable. The appearance of the product is that of grey-violet coloured bait grains, with no detectable odour. It is not explosive and has no oxidising properties. The product is not flammable and has no self-ignition properties. There is no effect of high temperature on the stability of the formulation, since after 14 days at 54 °C, neither the active substance content nor the technical properties were changed. **The storage stability for two years at ambient temperature in the commercial packaging or equivalent must be provided at post-authorisation.** The technical characteristics are acceptable for a GB formulation.

The formulation is not classified for the physico-chemical aspect.

3.1.2 Methods of analysis

3.1.2.1 Analytical method for the formulation

Analytical methodology for the determination of active substance in the formulation is available and validated. As the active substance zinc phosphide does not contain relevant impurities, no pertinent analytical method is required.

3.1.2.2 Analytical methods for residues

Considering the intended uses, analytical methods for the determination of residues in plants and in foodstuffs of animal origin are not necessary.

Analytical methods are available in the Draft Assessment Report (DAR)/this dossier and validated for the determination of residues of zinc phosphide in soil, water (surface and drinking) and air.

The active substance is very toxic (T+); however, no method is required for the determination of residues in tissues and body fluids as no exposure of operators, workers and bystanders is expected.

3.1.3 Mammalian Toxicology

Endpoints used in risk assessment

Active substance: zinc phosphide			
ADI	0.042 mg kg bw/d		EU (2011)
ARfD	0.073 mg/kg bw		
AOEL	0.042 mg/kg bw/d		
Dermal absorption	Based on default values (expert judgement):		
		Concentrate (used in formulation) 8 g/kg	Spray dilution (used in formulation) x g/L
	Dermal absorption endpoints %	10%	

3.1.3.1 Acute Toxicity

RATRON GL containing 8 g/kg of zinc phosphide has a low acute oral, inhalational and dermal toxicity, is not irritating to the rabbit skin or eye and is not a skin sensitiser.

The classification proposed in accordance with Regulation (EC) No 1272/2008 is shown in Section 2.2.

3.1.3.2 Operator Exposure

Summary of critical use patterns (worst cases):

Application types	F/G ¹²	Equipment	Application rate kg product/ha (g a.s./ha)	Model
5 baits/vole hole	F and G	Lance application or Ratron® AppliGun	2 kg product/ha (16 g/ha)	EASE model RISKOFDERM model Human Exposure to Rodenticides (PT 14), TNsG (2007) model
100 g bait placed in baiting places or bait stations (worst case compared with 5 baits/vole hole)	F and G	No equipment	2.5 kg product/ha (20 g/ha)	
Closed foil bags	F and G	No equipment	5 kg product/ha (40 g/ha)	EASE model

Considering the proposed uses, operator systemic exposure was estimated using the EASE, RISKOFDERM and Human Exposure to Rodenticides (PT 14), TNsG (2007) models:

Application types/model	Equipment	PPE and/or working coverall	% AOEL zinc phosphide (AOEL = 0.042 mg/kg bw/d)
Closed foil bags/EASE model	No equipment	Working coverall and gloves during mixing/loading and application	negligible
100 g bait placed in baiting places or bait stations/EASE model	No equipment	Working coverall and gloves during mixing/loading and application	24
100 g bait placed in baiting places or bait stations/RISKOFDERM model	No equipment	Working coverall, no gloves	3.3
100 g bait placed in baiting places or bait stations/Human Exposure to Rodenticides (PT 14), TNsG (2007) model	No equipment	Working coverall and gloves during mixing/loading and application	17

¹² Open field or glasshouse

According to the model calculations, it may be concluded that the risk for the operator using RATRON GL is acceptable with a working coverall (90 % protection factor) and gloves during mixing/loading and application.

For details of personal protective equipment for operators, refer to the Decision in Appendix 1.

3.1.3.3 Bystander Exposure

RATRON GL is a granular bait formulation; no drift is expected. Therefore bystander exposure estimation is considered to be unnecessary.

3.1.3.4 Resident exposure

RATRON GL is a granular bait formulation; no drift is expected. Therefore resident exposure estimation is considered to be not relevant.

However, the accidental ingestion of baits by a child was assessed, by calculating the quantity of baits that could be ingested per day without unacceptable effect (reverse scenario).

For toddlers, the recommended daily intake is about 0.73 mg zinc phosphide/day, assuming a body weight of 10 kg and an ARfD value for zinc phosphide of 0.073 mg/kg bw. Considering that one granule contains a maximum of 0.146 mg of zinc phosphide which would be consumed per accidentally ingested granule, a toddler could ingest five granules per day without unacceptable effects.

Anses (France) recommends that a bittering agent be added to the formulation, to deter human ingestion.

3.1.3.5 Worker Exposure

RATRON GL is a granular bait formulation; no work is expected to be practised after application. Therefore worker exposure estimation is considered to be unnecessary.

For details of personal protective equipment for workers, refer to the Decision in Appendix 1.

3.1.4 Residues and Consumer Exposure

EFSA (2010¹³) concluded :

The submission of metabolism and residues data to support the representative use of zinc phosphide was not considered necessary. The product is applied in a targeted manner, exclusively as a bait against rodents, and therefore no significant residues in plant or animal matrices are expected. No residue definitions have therefore been set for plant or animal products, and no consumer risk assessments are required.

These conclusions apply to RATRON GL as only rodenticide uses are intended.

3.1.5 Environmental fate and behaviour

The fate and behaviour in the environment have been evaluated according to the requirements of Regulation (EC) No 1107/2009. Appropriate endpoints from the EU conclusions were used to calculate predicted environmental

¹³ EFSA (European Food Safety Authority); 2010b; Conclusion on the peer review of the pesticide risk assessment of the active substance zinc phosphide. EFSA Journal 2010; 8(7):1671. [48 pp.]. doi:10.2903/j.efsa.2010.1671.

concentration (PEC) values for the active substance and its metabolites for the intended use patterns. In cases where deviations from the EU agreed endpoints were considered appropriate (for example when additional studies are provided), such deviations were highlighted and justified accordingly.

The PEC values of zinc phosphide and its metabolite in soil have been assessed according to FOCUS guidance documents, with standard FOCUS scenarios to obtain outputs from the FOCUS models, and the endpoints established in the EU conclusions.

PECsoil values derived for the active substance and its metabolite are used for the ecotoxicological risk assessment.

According to the intended uses, PECsw calculations for zinc phosphide and its metabolite were not relevant. It is in line with the European conclusions on the active substance for the same uses.

No unacceptable risk of groundwater contamination is expected for the intended uses. It is in line with the European conclusions on the active substance for the same uses.

Based on vapour pressure, information on volatilisation from plants and soil, and DT₅₀ calculation, no significant contamination of the air compartment is expected for the intended uses.

3.1.6 Ecotoxicology

The ecotoxicological risk assessment of the formulation was performed according to the requirements of Regulation (EC) No 1107/2009. Appropriate endpoints from the EU conclusions for the active substance were used for the intended use patterns. In cases where deviations from the EU agreed endpoints were considered appropriate (for example when additional studies are provided), such deviations were highlighted and justified accordingly.

Based on the guidance documents, the risks for birds, mammals, bees, other non-target arthropods, earthworms, other soil macro-organisms and micro-organisms are acceptable for the intended uses.

Risk assessments were performed for all indicator species relevant in the natural environment. In summary, no unacceptable risks were indicated for each of the indicator groups including birds, aquatic and sediment-dwelling organisms, mammals, bees, other terrestrial non-target arthropods, soil macro- and micro-organisms, and terrestrial non-target plants, under realistic conditions and in consideration of all GAP uses proposed for Ratron GL.

GAP uses of Ratron GL result in a low release of residues to the various environmental compartments, from which soil was shown to be the only relevant compartment, if any. The risk to earthworms, soil micro-flora and soil-dwelling organisms can be considered acceptable from the application of Ratron GL due to the low toxicity of zinc phosphide.

The only non-target species identified to be potentially at risk are terrestrial vertebrates feeding on the baits or on poisoned rodents. Birds are not expected to be exposed to an unacceptable risk, due to the application as ready-to-use bait, (i) in bait stations, (ii) in vole holes. The same can be expected for terrestrial mammals with the exception of rodents (target pests and others). Fatal incidents by feeding on spilled bait material are considered to be restricted to rare and individual cases. Furthermore, the risk of secondary poisoning could largely be excluded.

3.1.7 Efficacy

Considering the data submitted:

- the efficacy of RATRON GL is considered satisfactory in the requested conditions of use. Efficacy was not tested on *Arvicola terrestris*, but the efficacy data obtained on other vole species may be extrapolated to *A. terrestris*.
- the selectivity of RATRON GL is considered satisfactory in the requested conditions of use.
- the risk of negative impact on yield, quality, transformation processes, propagation, succeeding and adjacent crops is considered negligible.

- the risk of resistance developing or appearing is considered to be low.

3.2 Conclusions arising from French assessment

Taking into account the above assessment, an authorisation can be granted as proposed in Appendix 1 – Copy of the product Decision.

3.3 Substances of concern for national monitoring

No information stated.

3.4 Further information to permit a decision to be made or to support a review of the conditions and restrictions associated with the authorisation

3.4.1 Post-authorisation monitoring

No further information is required.

3.4.2 Post-authorisation data requirements

The French Decision requests the submission of post-authorisation confirmatory pieces of information within 24 months regarding:

- A two-year product storage stability study at ambient temperature in the commercial (or equivalent) packaging.

3.4.3 Label amendments

The draft label proposed by the applicant in Appendix 2 may be corrected with consideration of any new element under points 2.2.1 (or 2.2.2), 2.2.3 and 2.2.4.

The label shall reflect the detailed conditions stipulated in the Decision.

Appendix 1 – Copy of the French Decision



Décision relative à une demande d'autorisation de mise sur le marché d'un produit phytopharmaceutique

Vu les dispositions du règlement (CE) N° 1107/2009 du 21 octobre 2009 et de ses textes d'application,

Vu le code rural et de la pêche maritime, notamment le chapitre III du titre V du livre II des parties législative et réglementaire,

*Vu la demande d'autorisation de mise sur le marché du produit phytopharmaceutique **RATRON GL***

*de la société **FRUNOL DELICIA GMBH***

enregistrée sous le n°2013-1300

Vu les conclusions de l'évaluation de l'Anses du 31 août 2017,

Vu la décision du directeur général de l'Anses du 15 septembre 2017,

Considérant la nécessité de corriger l'intitulé des usages concernés,

La mise sur le marché du produit phytopharmaceutique désigné ci-après **est autorisée** en France pour les usages et dans les conditions précisés dans la présente décision et ses annexes.

La présente décision abroge et remplace la décision du 15 septembre 2017 et s'applique sans préjudice des autres dispositions applicables.

Avertissement :

Le non-respect des conditions décrites ci-dessous peut entraîner le retrait ou la modification de l'autorisation ainsi que toute action incluant des poursuites judiciaires.



Informations générales sur le produit	
Nom du produit	RATRON GL
Type de produit	Produit de référence
Titulaire	FRUNOL DELICIA GMBH HANSASTRASSE 74 59425 UNNA ALLEMAGNE
Formulation	Appât granulé (GB)
Contenant	8 g/kg - phosphore de zinc
Numéro d'intrant	916-2013.01
Numéro d'AMM	2170697
Fonction	Rodenticide
Gamme d'usages	Professionnel

L'échéance de validité de la présente décision est fixée à douze mois à compter de la date d'expiration de l'approbation de la substance active. A titre indicatif, dans l'état actuel du calendrier d'approbation des substances actives, l'échéance de l'autorisation est fixée au 30 avril 2022.

Le dépôt d'une demande de renouvellement conformément à l'article 43 du règlement (CE) 1107/2009, dans les trois mois suivant le renouvellement de l'approbation de la substance active, prolonge de plein droit l'autorisation de mise sur le marché après son arrivée à échéance de la durée nécessaire pour mener à bien l'examen et adopter une décision sur le renouvellement.

La présente décision peut être retirée ou modifiée avant cette échéance si des éléments le justifient.

A Maisons-Alfort, le **19 JAN. 2018**

Françoise WEBER
Directrice générale déléguée
en charge du pôle produits réglementés
Agence nationale de sécurité sanitaire de
l'alimentation, de l'environnement et du travail (ANSES)



ANNEXE I : Modalités d'autorisation du produit

Vente et distribution	
Le titulaire de l'autorisation peut mettre sur le marché le produit uniquement dans les emballages :	
Emballage	Contenance
Bouteilles en polyéthylène téréphtalate	0,75 kg
Sacs en papier / polyéthylène	8 kg
Seaux en polypropylène	0,5 kg ; 2,5 kg

Classification du produit	
La classification retenue est la suivante :	
Catégorie de danger	Mention de danger
Dangers pour le milieu aquatique - Danger aigu, catégorie 1	H400 : Très toxique pour les organismes aquatiques
Dangers pour le milieu aquatique - Danger chronique, catégorie 1	H410 : Très toxique pour les organismes aquatiques, entraîne des effets néfastes à long terme
EUH032 : Au contact d'un acide, dégage un gaz très toxique	
Pour les phrases P se référer à la réglementation en vigueur.	
Le titulaire de l'autorisation est responsable de la mise à jour de la fiche de données de sécurité et de la classification du produit en tenant compte de ses éventuelles évolutions.	



Liste des usages autorisés									
En l'absence de mention spécifique, les usages autorisés correspondent à une utilisation en plein champ. En l'absence de restriction, les usages sont autorisés sur l'ensemble des cultures de la portée de l'usage.									
Usages	Dose maximale d'emploi	Nombre maximum d'applications	Stade d'application BBCH	Délai avant récolte (jours)	Zone Non Traiteée aquatique (mètres)	Zone Non Traiteée arthropodes non cibles (mètres)	Zone Non Traiteée plantes non cibles (mètres)	Mention abeilles	
21011001 Traitements généraux* Trt Appât*Petits rongeurs	2 kg/ha *	Non applicable *	Tous les stades	Non applicable	-	-	-	-	
	Egalement autorisé sous abri * Uniquement pour des applications dans des trous de rongeurs, avec une dose d'emploi limitée à 5 granulés par trou. * Les applications doivent être répétées jusqu'à ce que les appâts ne soient plus consommés, et en respectant la dose maximale de 2 kg/ha/an.								
	2,5 kg/ha *	Non applicable *	Tous les stades	Non applicable	-	-	-	-	
Egalement autorisé sous abri * Uniquement pour des applications dans des stations d'appâtage, avec une dose d'emploi limitée à 100 g par station d'appâtage. * Les applications doivent être répétées jusqu'à ce que les appâts ne soient plus consommés, et en respectant la dose maximale de 2,5 kg/ha/an.									

Liste des usages refusés			
Usages	Dose d'emploi	Nombre maximum d'applications	Délai avant récolte (jours)
21011001 Traitements généraux* Trt Appât*Petits rongeurs	5 kg/ha	Non applicable	Non applicable
Pour des applications en forêt avec épandage à la volée. Motivation du refus : La dose de 5 kg/ha et l'épandage à la volée sont refusés en raison d'un risque non acceptable pour les oiseaux et les mammifères sauvages.			

RATRON GL
AMM n°2170697

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Conditions d'emploi du produit

Stockage et utilisation du produit

L'utilisation du produit phytopharmaceutique RATRON GL est limitée aux usages phytopharmaceutiques entrant dans le cadre du règlement (CE) n°1107/2009.

Protection de l'opérateur et du travailleur

Des informations générales relatives aux bonnes pratiques de protection pourront être mises à disposition de l'utilisateur :

- l'utilisation d'un matériel adapté et entretenu et la mise en œuvre de protections collectives constituent la première mesure de prévention contre les risques professionnels, avant la mise en place de protections individuelles
- le port de combinaison de travail dédiée ou d'EPI doit être associé à des réflexes d'hygiène (ex : lavage des mains, douche en fin de traitement) et à un comportement rigoureux (ex : procédure d'habillage/déshabillage).
- les modalités de nettoyage et de stockage des combinaisons de travail et des EPI réutilisables doivent être conformes à leur notice d'utilisation.

Pour l'opérateur, porter

Dans le cadre d'une application effectuée à l'aide d'un dispositif spécifique permettant le positionnement des granules dans les trous (canne de distribution) ou lors de la manipulation directe du produit :

- **pendant le mélange/chargement et le nettoyage du matériel d'application et des stations d'appâtage**
- Gants en nitrile certifiés EN 374-3 ;
- Combinaison de travail en polyester 65 %/coton 35 % avec un grammage de 230 g/m² ou plus avec traitement déperlant ;

Délai de rentrée en application de l'arrêté du 4 mai 2017 :

- Non applicable

Protection de l'environnement (milieux, faune et flore)

Protection de l'eau

- SP 1 : Ne pas polluer l'eau avec le produit ou son emballage. Ne pas nettoyer le matériel d'application près des eaux de surface. Éviter la contamination via les systèmes d'évacuation des eaux à partir des cours de ferme ou des routes.

Protection de la faune

- SPe 6 : Pour protéger les oiseaux et les mammifères sauvages, récupérer tout produit accidentellement répandu.

Exigences complémentaires post-autorisation

A défaut de transmission de ces données dans les délais impartis à compter de la date de la présente décision, la présente décision pourra être retirée ou modifiée.

Détail de la demande post autorisation	Délai	Réurrence (mois)
Fournir les résultats des études en cours de réalisation, concernant la stabilité au stockage pendant 2 ans, à température ambiante.	15/09/2019	-

Appendix 2 – Copy of the draft product label as proposed by the applicant

Ratron®
Rodentizide

Product Information

Ratron® Gift-Linsen

Fast acting mice lentils for the targeted control of common voles, field voles, bank voles in agriculture, on grassland (meadows and pastures), in orchards, vegetables, ornamentals, vineyards, forestry and non-cultivated area, and for the use in the home and garden sector and in greenhouses as well as against house mice in storage facilities.

Product highlights

- Unique new development
- Dust-free, water- and mould resistant
- 3-times higher productiveness compared to common poison wheat products at equal application rate (5 lentils per mouse hole)



Active ingredient(s)

8 g/kg Zinc phosphide

Characteristics and effects

Ratron® Gift-Linsen (mice lentils) is a fast acting, ready-for-use bait containing the active ingredient zinc phosphide (8 g/kg) for the control of common voles (*Microtus arvalis*), field voles (*Microtus agrestis*) bank voles (*Clethrionomys glareolus*) and house mice (*Mus musculus*). **Ratron® Gift-Linsen** are rain-resistant.

Due to a new formulation technology lower contents of active ingredient as before can be used. Furthermore a degradation of active ingredient prior to bait ingestion is prevented. This means a significant reduction of bait shyness by mice. The full effect and attractiveness remains until ingestion by mice.

After ingestion of the bait the active ingredient zinc phosphide develops phosphine (phosphorus hydride) in the stomach of mice under influence of the gastric acid. Phosphine is a very strong metabolism- and nerve poison and kills mice within 1 to 3 hours. After this the active ingredient is rapidly decomposed and can therefore not cause any secondary poisoning.

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Product Information

Ratron® Gift-Linsen

Instructions for use

Ratron® Gift-Linsen are approved for the application in agriculture, orchards, vegetables, ornamentals, grass-land, forestry, vineyards, non-cultivated area, storage (indoor and outdoor) as well as for the home and garden sector and in greenhouses.

Against voles 5 **Ratron® Gift-Linsen** are applied into each mouse hole. This dosage equals an approx. application rate of 1 kg/ha at medium infestation (max. application per year. 2.0 kg product/ha).

By usage of the newly developed **Ratron® Appli-Gun** for the covered application of **Ratron® Gift-Linsen** into the mice holes the time effort compared to other procedures is significantly reduced. Furthermore the application with the **Ratron® Appli-Gun** is of less risk for the user as there is virtually no contact with the bait.

Besides the application of **Ratron® Gift-Linsen** into the mice holes the application in bait stations with 100g/baiting place (max. application rate 2.5 kg/ha) is also possible which provides a protection of the baits against humidity.

Exclusively for the use in forestry, a special application method is approved for **Ratron Gift-Linsen**: The baits in the foil bags can be applied broadcast (max. rate 5 kg/ha) by manure caster or by hand (application only in the closed foil bags, containing 5 lentils each).

Against house mouse in storage the product is to be applied in bait stations.

Please note that the open application is prohibited. This means that **Ratron® Gift-Linsen**, as every other product containing zinc phosphide, must not be applied by broad spreading but covered only (subsurface or into bait stations).

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Product Information

Ratron® Gift-Linsen

Registered uses

Product	Crop / Situation	Pest	Dosage	Procedure	Application time	Number of applications (max rate per year, kg/ha)	PHI
Ratron Gift-Linsen	Agriculture	Common vole Field vole	5 baits per hole	placing of baits in holes	at infestation (all stages)	n.a.) ⁴ (2.0 kg/ha)	F
	Agriculture	Common vole Field vole	100 g /bait location	bait station	at infestation (all stages)	n.a.) ⁴ (2.5 kg/ha)	F
	Ornamentals) ¹) ²	Common vole Field vole Bank vole	5 baits per hole	placing of baits in holes	at infestation (all stages)	n.a.) ⁴ (2.0 kg/ha)	N
	Ornamentals) ¹) ²	Common vole Field vole Bank vole	100 g /bait location	bait station	at infestation (all stages)	n.a.) ⁴ (2.5 kg/ha)	N
	Orchard) ¹) ²	Common vole Field vole Bank vole	5 baits per hole	placing of baits in holes	at infestation (all stages)	n.a.) ⁴ (2.0 kg/ha)	F
	Orchard) ¹) ²	Common vole Field vole Bank vole	100 g /bait location	bait station	at infestation (all stages)	n.a.) ⁴ (2.5 kg/ha)	F
	Vegetables) ¹) ²	Common vole Field vole	5 baits per hole	placing of baits in holes	at infestation (all stages)	n.a.) ⁴ (2.0 kg/ha)	F
	Vegetables) ¹) ²	Common vole Field vole	100 g /bait location	bait station	at infestation (all stages)	n.a.) ⁴ (2.5 kg/ha)	F
	Grassland	Common vole Field vole	5 baits per hole	placing of baits in holes	at infestation (all stages)	n.a.) ⁴ (2.0 kg/ha)	F
	Grassland	Common vole Field vole	100 g /bait location	bait station	at infestation (all stages)	n.a.) ⁴	F
	Forestry	Common vole Field vole Bank vole	5 baits per hole	placing of baits in holes	at infestation (all stages)	n.a.) ⁴ (2.0 kg/ha)	N
	Forestry	Common vole Field vole Bank vole	100 g /bait location	bait station	at infestation (all stages)	n.a.) ⁴ (2.5 kg/ha)	N
	Forestry	Common vole Field vole Bank vole	max. 5.0 kg/ha	broadcasting of baits in foilbags	young plants	n.a.) ⁴ (5.0 kg/ha)	N
	Non-cultivated area) ³	Common vole Field vole Bank vole	max. 5.0 kg/ha	broadcasting of baits in foilbags	at infestation (all stages)	n.a.) ⁴ (5.0 kg/ha)	N
	Non-cultivated area) ³	Common vole Field vole Bank vole	5 baits per hole	placing of baits in holes	at infestation (all stages)	n.a.) ⁴ (2.0 kg/ha)	N
	Non-cultivated area) ³	Common vole Field vole Bank vole	100 g /bait location	bait station	at infestation (all stages)	n.a.) ⁴ (2.5 kg/ha)	N



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Product Information

Ratron® Gift-Linsen

Product	Crop / Situation	Pest	Dosage	Procedure	Application time	Number of applications (max rate per year, kg/ha)	PHI
	Storage (indoor)) ¹	House mouse	100 g /bait location	bait station	at infestation (all stages)	n.a.) ⁴ (2.5 kg/ha)	N
	Storage (outdoor around buildings)) ¹	House mouse	100 g /bait location	bait station	at infestation (all stages)	n.a.) ⁴ (2.5 kg/ha)	N
	Vineyards	Common vole Field vole	5 baits per hole	placing of baits in holes	at infestation (all stages)	n.a.) ⁴ (2.0 kg/ha)	F
	Vineyards	Common vole Field vole	100 g /bait location	bait station	at infestation (all stages)	n.a.) ⁴ (2.5 kg/ha)	F

)¹ professional and non-professional use (home and garden)

)² outdoor use and use in greenhouses

)³ For avoidance of immigration of voles to fields from surroundings, assurance of traffic security at airports, roads and stability of sea and river embankments.

)⁴ Number of applications: not applicable; application is to be repeated until no more baits are consumed

F = The pre-harvest interval for the envisaged area of application is covered by the application conditions and/or growing period remaining between the envisaged application and use (e.g. harvest); it is not necessary to lay down a pre-harvest interval in days

N = The indication of a pre-harvest interval is not relevant.



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Product Information

Ratron® Gift-Linsen

Advices for the protection of the user and the environment



Hazard classification: N (Dangerous for the environment)

Risk phrases

- R32 Contact with acids liberates very toxic gas
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases

- S1 /2 Keep locked up and out of the reach of children.
S13 Keep away from food, drink and animal feedingstuffs.
S14 Keep away from acids
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin, wash immediately with plenty of water and soap.
S35 This material and its container must be disposed of in a safe way.
S37 Wear suitable gloves
S46 If swallowed, seek medical advice immediately and show this container or label.
S57 Use appropriate containment to avoid environmental contamination

[if applicable national use conditions are to be included here after registration in the respective countries and official definition of the conditions]

First aid

In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water and soap. If swallowed, seek medical advice immediately and show container or label.

Storage

Store **Ratron® Gift-Linsen** in the original container cool, dry, locked up, out of the reach of children as well as separated from food, drink, animal feeding stuffs and odourous substances. After opening of packages losses in effectiveness must be taken into consideration.



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Product Information

Ratron® Gift-Linsen

Further advices

By due diligence it is proven that **Ratron® Gift-Linsen** is suitable for the recommended purposes if the instructions for use are followed. As storage and application are outside of our influence and we are not able to foresee all corresponding circumstances we exclude any liability for possible damages out of storage and application. We are liable for the proper quality of **Ratron® Gift-Linsen** at the delivery date, we do not bear the risk of storage and application.

Waste management / disposal

Do not further use empty packages. Pay attention to the national and regional regulations.

Delivery packages

0691-041	12 x 500 g bucket	Pallet:	60 sales units
0691-111	12 x 750 g PET bottle	Pallet:	48 sales units
0691-101	4 x 2,5 kg bucket	Pallet:	32 sales units
0691-102	1 x 8 kg drum	Pallet:	112 sales units

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(Source: "Professional use label", reproduced in applicant's draft Registration Report Part A, cover date February 2013)



Information sur le produit

Ratron® GL

Appâts sous forme de lentilles agissant rapidement pour lutter contre le campagnol commun, le campagnol des champs et le campagnol roussâtre en grandes cultures, dans les prairies et les pâturages, dans les cultures fruitières, dans les cultures légumières, dans les cultures ornementales, dans la vigne, en foresterie et dans les zones non cultivées. Autorisé sous serre et contre les souris domestiques dans les installations de stockage.

Points fort du produit

- Nouveau développement unique.
- Sans poussière, résistant à l'eau et à la moisissure.
- Trois fois plus efficace que les produits traditionnels à base de blé empoisonné pour une quantité d'application égale (5 lentilles par terrier de rongeur).



N° d'AMM : XXXXXX délivrée le JJ/MM/AAAA

Détenteur de l'A.M.M. :

Frunol delicia GmbH
Hansastraße 74b
D-59425 Unna
Allemagne

Réservé à un usage exclusivement professionnel.

Substance active

8 g/kg (0.8% m/m) de phosphore de zinc

Formulation : appât granulé (GB)

Caractéristiques et effets

Ratron® GL (lentilles pour souris) est un appât prêt à l'emploi, à action rapide dont la substance active est le phosphore de zinc (8 g/kg) pour contrôler le campagnol commun (*Microtus arvalis*), le campagnol des champs (*Microtus agrestis*), le campagnol roussâtre (*Clethrionomys glareolus*) et la souris domestique (*Mus musculus*). Ratron® GL résiste à la pluie.

La nouvelle formulation de Ratron® GL permet d'obtenir une efficacité optimale même avec une teneur en substance active moindre. De plus, il n'y a pas de dégradation de la substance active

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avant l'ingestion de l'appât par le rongeur. De ce fait, la méfiance des rongeurs est significativement réduite et l'attractivité de l'appât pour le rongeur reste optimale. L'efficacité et l'attractivité reste entière jusqu'à son ingestion par les rongeurs.

Après ingestion de l'appât, le phosphore de zinc (substance active) se transforme en phosphine (hydruure de phosphore) sous l'action des sucs gastriques de l'estomac du rongeur. La phosphine est une neurotoxine très active dans le métabolisme. La mort du campagnol survient dans un délai de 1 à 3 heures après ingestion de l'appât. Ensuite, la substance active est rapidement décomposée et ainsi ne peut provoquer aucun empoisonnement secondaire.

Recommandations d'utilisation

Ratron® GL est autorisé pour les usages en grandes cultures, en cultures fruitières, en cultures légumières, en cultures ornementales, en prairies et pâturages, en foresterie, en vigne, en zone non cultivée ainsi que lors de stockage (intérieur ou extérieur). Autorisé également sous serre.

Pour lutter contre les campagnols, 5 lentilles de Ratron® GL doivent être déposées dans chaque trou de rongeur. Pour une infestation moyenne, ce dosage correspond approximativement à une dose de 1 kg/ha (la dose maximum d'application de produit par an est de 2.0 kg/ha).

L'utilisation de Ratron® Appli-Gun, développé récemment, permet une application protégée de Ratron® GL. En utilisant cette méthode d'application dans chaque trou de rongeur, le temps de travail peut être considérablement réduit par rapport aux autres méthodes d'application. De plus, une application avec Ratron® Appli-Gun présente moins de risques pour l'utilisateur car elle minimise les contacts entre l'appât et l'utilisateur.

L'application de Ratron® GL dans les trous des rongeurs dans des stations d'appâts est possible avec 100 g par lieu d'appâtage (la dose maximum d'application de produit est de 2.5 kg/ha) permettant ainsi une protection des appâts contre les organismes non-cibles.

Spécificité de l'utilisation de Ratron® GL dans le secteur forestier : les appâts dans les sachets peuvent être déposés directement en surface (la dose maximum est de 5 kg/ha) à la main ou à l'aide d'un épandeur (application uniquement dans les sachets fermés, contenant 5 lentilles chacun).

Contre les souris domestiques dans les installations de stockage, le produit doit être appliqué dans stations d'appâts.

Il est interdit d'appliquer Ratron® GL de façon généralisée à la surface du sol. Ratron® GL comme tous les autres appâts à base de phosphore de zinc, doit être placé dans des endroits protégés/abrités (sous la surface du sol ou dans les stations d'appâtage).



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Usages homologués

Culture	Cible	Dose	Méthode d'application	Période d'application	Nb d'application (dose max par an)	DAR
Grandes cultures	Campagnol commun Campagnol des champs	5 lentilles par trou	Placer les appâts dans les trous	Lorsque l'infestation est détectée	n.a. ³ (2.0 kg/ha)	F
Grandes cultures	Campagnol commun Campagnol des champs	100 g par station d'appâts	Station d'appâts	(tous les stades)	n.a. ³ (2.5 kg/ha)	F
Cultures ornementales ¹	Campagnol commun Campagnol des champs Campagnol roussâtre	5 lentilles par trou	Placer les appâts dans les trous	Lorsque l'infestation est détectée	n.a. ³ (2.0 kg/ha)	N
Cultures ornementales ¹	Campagnol commun Campagnol des champs Campagnol roussâtre	100 g par station d'appâts	Station d'appâts	(tous les stades)	n.a. ³ (2.5 kg/ha)	N
Cultures fruitières ¹	Campagnol commun Campagnol des champs Campagnol roussâtre	5 lentilles par trou	Placer les appâts dans les trous	Lorsque l'infestation est détectée	n.a. ³ (2.0 kg/ha)	F
Cultures fruitières ¹	Campagnol commun Campagnol des champs Campagnol roussâtre	100 g par station d'appâts	Station d'appâts	(tous les stades)	n.a. ³ (2.5 kg/ha)	F
Cultures légumières ¹	Campagnol commun Campagnol des champs	5 lentilles par trou	Placer les appâts dans les trous	Lorsque l'infestation est détectée	n.a. ³ (2.0 kg/ha)	F
Cultures légumières ¹	Campagnol commun Campagnol des champs	100 g par station d'appâts	Station d'appâts	(tous les stades)	n.a. ³ (2.5 kg/ha)	F
Prairies et pâturages	Campagnol commun Campagnol des champs	5 lentilles par trou	Placer les appâts dans les trous	Lorsque l'infestation est détectée	n.a. ³ (2.0 kg/ha)	F
Prairies et pâturages	Campagnol commun Campagnol des champs	100 g par station d'appâts	Station d'appâts	(tous les stades)	n.a. ³ (2.5 kg/ha)	F
Forêt	Campagnol commun Campagnol des champs Campagnol roussâtre	5 lentilles par trou	Placer les appâts dans les trous	Lorsque l'infestation est détectée	n.a. ³ (2.0 kg/ha)	N
Forêt	Campagnol commun	100 g par station	Station d'appâts	(tous les stades)	n.a. ³	N

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Culture	Cible	Dose	Méthode d'application	Période d'application	Nb d 'application (dose max par an)	DAR
	Campagnol des champs Campagnol roussâtre	d'appâts			(2.5 kg/ha)	
Forêt	Campagnol commun Campagnol des champs Campagnol roussâtre	max. 5 kg/ha	Épandage à la volée en sachets		n.a. ³ (5.0 kg/ha)	N
Zone non cultivée ²	Campagnol commun Campagnol des champs Campagnol roussâtre	5 lentilles par trou	Placer les appâts dans les trous	Lorsque l'infestation est détectée (tous les stades)	n.a. ³ (2.0 kg/ha)	N
Zone non cultivée ²	Campagnol commun Campagnol des champs Campagnol roussâtre	100 g par station d'appâts	Station d'appâts		n.a. ³ (2.5 kg/ha)	N
Zone de stockage (intérieur)	Souris domestique	100 g par station d'appâts	Station d'appâts	Lorsque l'infestation est détectée (tous les stades)	n.a. ³ (2.5 kg/ha)	N
Zone de stockage (en plein air autour des bâtiments)	Souris domestique	100 g par station d'appâts	Station d'appâts		n.a. ³ (2.5 kg/ha)	N
Vigne	Campagnol commun Campagnol des champs	5 lentilles par trou	Placer les appâts dans les trous	Lorsque l'infestation est détectée (tous les stades)	n.a. ³ (2.0 kg/ha)	F
Vigne	Campagnol commun Campagnol des champs	100 g par station d'appâts	Station d'appâts		n.a. ³ (2.5 kg/ha)	F

¹: Usage extérieur et usage en serre

²: Afin d'assurer la sécurité du trafic dans les aéroports et les routes et d'assurer la stabilité des remblais maritimes et fluviaux.

³: Nombre d'application : non applicable car les applications doivent être répétées jusqu'à ce que les appâts ne soient plus consommés (pour connaître la dose maximum en kg/ha de produit par an à appliquer, se référer au tableau).

F : Le délai avant récolte (DAR) pour les usages considérés est couvert par les conditions d'application et/ou le cycle de croissance de la culture. Par conséquent, il n'est pas nécessaire de proposer un DAR en jours.

N : Le délai avant récolte (DAR) n'est pas pertinent.

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Conseils pour la protection de l'utilisateur et de l'environnement



N - Dangereux pour l'environnement

Ratron® GL

Contient du phosphore de zinc.

R32: Au contact d'un acide, dégage un gaz très toxique.
R50/53: Très toxique pour les organismes aquatiques, peut entraîner des effets néfastes à long terme pour l'environnement Aquatique

- S1/2:** Conserver sous clef et hors de portée des enfants.
S13: Conserver à l'écart des aliments et boissons, y compris ceux pour animaux.
S14: Conserver à l'écart des acides.
S26: En cas de contact avec les yeux, laver immédiatement et abondamment avec de l'eau et consulter un spécialiste.
S28: Après contact avec la peau, se laver immédiatement et abondamment avec de l'eau et du savon.
S35: Ne se débarrasser de ce produit et de son récipient qu'en prenant toutes précautions d'usage.
S37: Porter des gants appropriés.
S46: En cas d'ingestion, consulter immédiatement un médecin et lui montrer l'emballage ou l'étiquette.
S57: Utiliser un récipient approprié pour éviter toute contamination du milieu ambiant.

S'il y a lieu les conditions d'utilisation au niveau national doivent être incluses ici après l'enregistrement dans le pays concerné ainsi que la définition officiel des conditions.

Respecter les instructions d'utilisation pour éviter les risques pour l'homme et l'environnement.

SP1: Ne pas polluer l'eau avec le produit ou son emballage. Ne pas nettoyer le matériel d'application près des eaux de surface. Éviter la contamination via les systèmes d'évacuation des eaux à partir des cours de ferme ou des routes.

Le nom et l'adresse du distributeur seront renseignés après l'autorisation

En cas d'urgence, appelez le 15 ou le centre anti-poison puis signalez vos symptômes au réseau Phyt'attitude, N° vert 0 800 887 887 (appel gratuit depuis un poste fixe).

Fiche de Données de Sécurité disponible sur demande

N° de lot : voir emballage Contenu : XX kg e

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Premiers soins:

En cas de contact avec les yeux, laver immédiatement et abondamment avec de l'eau et consulter un spécialiste. Après contact avec la peau, se laver immédiatement et abondamment avec de l'eau et du savon. En cas d'ingestion, consulter immédiatement un médecin et lui montrer l'emballage ou l'étiquette.

Stockage:

Stocker le produit dans son emballage d'origine, dans un endroit frais, sec et fermé à clé. Tenir hors de la portée des enfants. Conserver à l'écart des aliments et boissons, y compris ceux pour animaux et des substances odorantes. Après ouverture de l'emballage, une diminution de l'efficacité du produit stocké est possible.

Conseils supplémentaires:

L'efficacité de Ratron® GL n'est assurée que pour les usages spécifiés sur cette étiquette et si les recommandations d'utilisation sont respectées. Compte-tenu des nombreux facteurs hors du contrôle du fabricant pouvant influencer l'efficacité du produit (application et stockage), le fabricant exclue toute responsabilité en cas de dommages pendant le stockage et l'application du produit. Le fabricant garantit la qualité de Ratron® GL à la date à laquelle il est livré. Le fabricant ne couvre pas les risques liés à son stockage et à son application.

Gestion et élimination des déchets:

Ne pas réutiliser l'emballage. Éliminer le produit non utilisé et les emballages souillés par le produit conformément à la réglementation en vigueur.

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Rodentizide

Appendix 3 – Letter(s) of Access

Not applicable.