# Part A Risk Management

**Product code: MADEX DUO** 

**Product name: MADEX DUO** 

**Active Substance:** 

Cydia pomonella Granulovirus isolate CpGV-V45

(GV-0017)

Min. 3 x 10<sup>13</sup> OB/L

**COUNTRY: FRANCE** 

**Southern Zone** 

**Zonal Rapporteur Member State: France** 

NATIONAL ASSESSMENT FRANCE

(Marketing authorisation)

**Applicant:** 

ANDERMATT BIOCONTROL SUISSE AG

Date: 22/08/2025

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#### PART A - Risk Management

The company ANDERMATT BIOCONTROL SUISSE AG has requested marketing authorisation in France for the product MADEX DUO, containing minimum 3 x 10<sup>13</sup> OB (occlusion bodies)/L *Cydia pomonella* granulovirus isolate CpGV-V45 (GV-0017) for use as an insecticide.

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 MADEX DUO where those data have not been considered in the EU peer review process. Otherwise, assessments for the safe use of MADEX DUO have been made using endpoints agreed in the EU peer review(s) of *Cydia pomonella* granulovirus.

This document describes the specific conditions of use and labelling required for France for the registration of MADEX DUO.

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.

#### 1 DETAILS OF THE APPLICATION

#### 1.1 Application background

The present registration report concerns the evaluation of ANDERMATT BIOCONTROL SUISSE AG's application to market MADEX DUO in France as an insecticide (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

#### Cydia pomonella

Commission Implementing Regulation (EU) No 2023/1756 of 11 september 2023 renewing the approval of the low-risk active substance *Cydia pomonella granulovirus* (CpGV) in accordance with Regulation (EC) No 1107/2009 of the European Parliament and of the Council and amending Commission Implementing Regulation (EU) No 540/2011

Specific provisions of Regulation 2023/1756 were as follows:

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

- the strict maintenance of environmental conditions and quality control analysis during the manufacturing process to be assured by the producer, in order to ensure the fulfilment of the limits on microbiological contamination as referred to in the Working Document SANCO/12116/2012,
- —the protection of operators and workers, taking into account that microorganisms are per se considered as potential sensitizers, ensuring that adequate personal protective equipment is included as a condition of use. Conditions of use shall include risk mitigation measures, where appropriate.

An EFSA conclusion is available (EFSA Journal 2022;20(11):7630).

A Review Report is available (PLAN/2023/240 RR- Rev 2, 21 July 2023).

# 1.3 Regulatory approach

The present application (2023-2852) was evaluated in France by the French Agency for Food, Environmental and Occupational Health & Safety (Anses) 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")<sup>1</sup> – 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 2017<sup>2</sup> 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 1107/2009<sup>3</sup>, 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 546/2011<sup>4</sup>, and are expressed as "acceptable" or "not acceptable" in accordance with those criteria.

Moreover, the French Order of 12 April 2021<sup>5</sup> 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 extrapolation<sup>6</sup> is to supply "minor" crops with registered plant protection products.

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

Finally, the French Order of 20 November 2021<sup>7</sup> on the protection of bees and other pollinating insects and the preservation of pollination services when using plant protection products provides that unless otherwise stated in the product authorisation, use on attractive crop<sup>8</sup> when in flower and on foraging area is forbidden. Specific conditions of application on flowering crops should be respected. As consequences specific SPe 8 may include reference to this order.

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

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 <a href="https://www.legifrance.gouv.fr/eli/arrete/2017/5/4/AGRG1632554A/jo/texte">https://www.legifrance.gouv.fr/eli/arrete/2017/5/4/AGRG1632554A/jo/texte</a>

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

<sup>&</sup>lt;sup>4</sup> 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

https://www.legifrance.gouv.fr/jorf/id/JORFTEXT000043401456

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

<sup>&</sup>lt;sup>7</sup> https://www.legifrance.gouv.fr/jorf/id/JORFTEXT000044346734

Eist of culture considered as unattractive to bees and other pollinators insects defined by French Agricultural ministry and published in Bulletin Officiel du ministère chargé de l'agriculture.

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 MADEX DUO, 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 is part of the task force for the renewal of the active substance and has provided letters of access for PPP data.

#### 1.6 Product identity

Product name (code)	MADEX DUO									
Authorisation number	2250284									
Function	insecticide									
Applicant	ANDERMATT BIOCONTROL SUISSE AG									
Composition	Cydia pomonella granulovirus isolate CpGV-V45 (GV-0017), $3 \times 10^{13}$ OB/L									
Formulation type (code)	Suspension concentrate [Code: SC]									
Packaging	PET 50 mL, 100 mL, 200 mL, 500 mL and 1000 mL HDPE-PA 500 mL and 1000 mL - HDPE 5 L, 10 L and 20 L									

# 1.7 Classification and labelling

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

Physical hazards	None
Health hazards	None
Environmental	No environmental classification
hazards	
Hazard pictograms	None
Signal word	None
Hazard statements	
Precautionary statements –	For the P phrases, refer to the extant legislation

Supplementary	Contains Cydia pomonella Granulovirus. Micro-organisms may have the potential to
information (in	provoke sensitising reactions.
accordance with	
Article 25 of	
Regulation (EC) No	
1272/2008)	

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

#### 1.7.2 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 3	To protect aquatic organisms, respect an unsprayed buffer zone of 5 metres <sup>9</sup> to surface water bodies for the uses on pome fruit, stone fruit and walnut.

# 1.7.3 Other phrases linked to the preparation

Wear suitable personal protective equipment<sup>10</sup>: refer to the Decision in Appendix 1 for the details

Re-entry period<sup>11</sup>: 6 hours

Pre-harvest interval<sup>12</sup>: not necessary

Other mitigation measures:

- product must be store at a temperature inferior at 5°C

The label may include the following recommendations:

**Agricultural recommendations:** In order to limit the risk of resistance, it would be recommended to avoid to treat 2 successive generations of the target with a product based on *Cydia pomonella* GranuloVirus and it would be recommended to alternate the type of isolate in the best possible way.

The label must reflect the conditions of authorisation.

The legal basis for this is **Titre III Article 12** 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]

<sup>&</sup>lt;sup>10</sup> If a tractor with cab is used, wearing gloves during application is only required when working with the spray mixture

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]

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

#### 1.8 **Product uses**

Please note: The GAP Table below reports the intended uses proposed by the applicant, and possible extrapolation according to French Order of 12 April 2021 (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.

GAP rev. 1, date: 22/08/2025

SC (a, b) Formulation type: PPP (product name/code): MADEX DUO

 $3 \times 10^{13} \, OB/L$   $^{\rm (c)}$ Active substance 1: Cydia pomonella granulovirus GV-0017 Conc. of as 1:

Applicant: ANDERMATT BIOCONTROL SUISSE AG Professional use:  $\boxtimes$ Non professional use: 

Zone(s): southern (d)

Verified by MS: yes

Field of use: insecticide

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Use-	Member	Crop and/	F,	Pests or Group of pests		Application Application rate						1	Remarks:
No. (e)	state(s)	or situation (crop destination / purpose of crop)	Fn, Fpn G, Gn, Gpn or I	controlled  (additionally: developmental stages of the pest or pest group)	Method / Kind	Timing / Growth stage of crop & season	Max. number a) per use b) per crop/ season	Min. interval between applications (days)	kg or L product / ha a) max. rate per appl. b) max. total rate per crop/season	g or kg as/ha a) max. rate per appl. b) max. total rate per crop/season	Water L/ha min / max	(days)	e.g. g safener/synergist per ha RMS CONCLUSION
Zonal	uses (field o	or outdoor uses, certa	ain type	es of protected crops)									
1	FR	Pome fruit crops (3PMFC)	F	Cydia pomonella (CARPPO), Grapholita molesta (LASPMO)	Spraying (tractor drawn motor sprayer / knapsack sprayer)	Before first larvae hatch from eggs <sup>1)</sup>	a)15 b) 15	6	a) 3 × 10 <sup>12</sup> OB/ha b) 4.5 × 10 <sup>13</sup> OB/ha	400 / 1600	Not relevant	not necess ary	Acceptable
1	FR	Pome fruit crops (3PMFC)	F	Cydia pomonella (CARPPO), Grapholita molesta (LASPMO)	Spraying (tractor drawn motor sprayer / knapsack sprayer)	Before first larvae hatch from eggs <sup>1)</sup>	a) 30 b) 30	6	a) $3 \times 10^{12}$ OB/ha b) $9 \times 10^{13}$ OB/ha	400 / 1600	Not relevant	not necess ary	Not acceptable (efficacy)
2	FR	Walnut (IUGRE)	F	Cydia pomonella (CARPPO)	Spraying (tractor drawn motor sprayer / knapsack sprayer)	Before first larvae hatch from eggs <sup>1)</sup>	a) 15 ( b) 15 (	6	a) 3 × 10 <sup>12</sup> OB/ha b) 4.5 × 10 <sup>13</sup> OB/ha	400 / 1600	Not relevant	not necess ary	Acceptable

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Use-	Member	Crop and/	F,	Pests or Group of pests		Applio	cation		A	Application rate			Remarks:
No. (e)	state(s)	or situation (crop destination / purpose of crop)	Fn, Fpn G, Gn, Gpn or I	controlled  (additionally: developmental stages of the pest or pest group)	Method / Kind	Timing / Growth stage of crop & season	Max. number a) per use b) per crop/ season	Min. interval between applications (days)	kg or L product / ha a) max. rate per appl. b) max. total rate per crop/season	g or kg as/ha a) max. rate per appl. b) max. total rate per crop/season	Water L/ha min / max	(days)	e.g. g safener/synergist per ha RMS CONCLUSION
2	FR	Walnut (IUGRE)	F	Cydia pomonella (CARPPO)	Spraying (tractor drawn motor sprayer / knapsack sprayer)	Before first larvae hatch from eggs <sup>1)</sup>	a) 30 b) 30	6	a) 3 × 10 <sup>12</sup> OB/ha b) 9 × 10 <sup>13</sup> OB/ha	400 / 1600	Not relevant	not necess ary	Not acceptable (efficacy)
3	FR	Almond crops (3ALMC): almond	F	Grapholita molesta (LASPMO)	Spraying (tractor drawn motor sprayer / knapsack sprayer)	Before first larvae hatch from eggs <sup>1)</sup>	a) 15 b) 15	6	a) $3 \times 10^{12}$ OB/ha b) $4.5 \times 10^{13}$ OB/ha	400 / 1600	Not relevant	not necess ary	Acceptable
3	FR	Almond crops (3ALMC): almond	F	Grapholita molesta (LASPMO)	Spraying (tractor drawn motor sprayer / knapsack sprayer)	Before first larvae hatch from eggs <sup>1)</sup>	a) 30 b) 30	6	a) 3 × 10 <sup>12</sup> OB/ha b) 9 × 10 <sup>13</sup> OB/ha	400 / 1600	Not relevant	not necess ary	Not acceptable (efficacy)
4	FR	Stone fruit crops (3STFC): Peach/apricot	F	Cydia pomonella (CARPPO), Grapholita molesta (LASPMO)	Spraying (tractor drawn motor sprayer / knapsack sprayer)	Before first larvae hatch from eggs <sup>1)</sup>	a) 15 b) 15	6	a) 3 × 10 <sup>12</sup> OB/ha b) 4.5 × 10 <sup>13</sup> OB/ha	400 / 1600	Not relevant	not necess ary	Acceptable
4	FR	Stone fruit crops (3STFC): Peach/apricot	F	Cydia pomonella (CARPPO), Grapholita molesta (LASPMO)	Spraying (tractor drawn motor sprayer / knapsack sprayer)	Before first larvae hatch from eggs <sup>1)</sup>	a) 30 b) 30	6	a) $3 \times 10^{12}$ OB/ha b) $9 \times 10^{13}$ OB/ha	400 / 1600	Not relevant	not necess ary	Not acceptable (efficacy)
5	FR	Stone fruit crops (3STFC): Plum	F	Grapholita molesta (LASPMO)	Spraying (tractor drawn motor sprayer / knapsack sprayer)	Before first larvae hatch from eggs <sup>1)</sup>	a) 15 b) 15	6	a) $3 \times 10^{12}$ OB/ha b) $4.5 \times 10^{13}$ OB/ha	400 / 1600	Not relevant	not necess ary	Acceptable

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Use-	Member			Pests or Group of pests		Applio	cation		Application rate			PHI	Remarks:
No. (e)	state(s)	or situation (crop destination / purpose of crop)	Gn, developme	(additionally: developmental stages of the pest or pest group)		Timing / Growth stage of crop & season	Max. number a) per use b) per crop/ season	between applications	kg or L product / ha a) max. rate per appl. b) max. total rate per crop/season	g or kg as/ha a) max. rate per appl. b) max. total rate per crop/season	Water L/ha min / max		e.g. g safener/synergist per ha RMS CONCLUSION
5	FR	Stone fruit crops (3STFC): Plum	F	Grapholita molesta (LASPMO)	Spraying (tractor drawn motor sprayer / knapsack sprayer)		a) 30 b) 30	6	a) $3 \times 10^{12}$ OB/ha b) $9 \times 10^{13}$ OB/ha	400 / 1600	Not relevant	not necess ary	Not acceptable (efficacy)

Remarks table heading: (a) e.g. wettable powder (WP), emulsifiable concentrate (EC), granule (GR)

(b) Catalogue of pesticide formulation types and international coding system CropLife International Technical Monograph n°2, 6th Edition Revised May 2008

(c) g/kg or g/L

Remarks columns:

1 Numeration necessary to allow references

- 2 Use official codes/nomenclatures of EU Member States
- 3 For crops, the EU and Codex classifications (both) should be used; when relevant, the use situation should be described (e.g. fumigation of a structure)
- 4 F: professional field use, Fn: non-professional field use, Fpn: professional and non-professional field use, G: professional greenhouse use, Gn: non-professional greenhouse use, Gpn: professional and non-professional greenhouse use, I: indoor application
- Scientific names and EPPO-Codes of target pests/diseases/ weeds or, when relevant, the common names of the pest groups (e.g. biting and sucking insects, soil born insects, foliar fungi, weeds) and the developmental stages of the pests and pest groups at the moment of application must be named.
- Method, e.g. high volume spraying, low volume spraying, spreading, dusting, drench Kind, e.g. overall, broadcast, aerial spraying, row, individual plant, between the plants type of equipment used must be indicated.

- (d) Select relevant
- (e) Use number(s) in accordance with the list of all intended GAPs in Part B, Section 0 should be given in column 1
- (f) No authorisation possible for uses where the line is highlighted in grey, Use should be crossed out when the notifier no longer supports this use.
- 7 Growth stage at first and 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
- 8 The maximum number of application possible under practical conditions of use must be provided.
- 9 Minimum interval (in days) between applications of the same product
- For specific uses other specifications might be possible, e.g.: g/m³ in case of fumigation of empty rooms. See also EPPO-Guideline PP 1/239 Dose expression for plant protection products.
- The dimension (g, kg) must be clearly specified. (Maximum) dose of a.s. per treatment (usually g, kg or L product / ha).
- 12 If water volume range depends on application equipments (e.g. ULVA or LVA) it should be mentioned under "application: method/kind".
- 13 PHI minimum pre-harvest interval
- 14 Remarks may include: Extent of use/economic importance/restrictions

#### 2 RISK MANAGEMENT

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

#### 2.1.1 Physical and chemical properties

MADEX DUO is a grey-brown liquid with containing more than 3 x  $10^{13}$  OB/L of CpGV-GV-0017 (SC). The preparation is not considered to have oxidising and explosive properties. MADEX DUO is neither highly flammable, nor auto-flammable. The pH value of a 1 % aqueous dilution of the preparation is 6.46.

Storage at 0 °C during 7 days has no effect on the stability of the preparation. Study on shelf-life following storage at 5°C during 12 months in commercial packaging was provided and considered as acceptable. As the product MADEX TWIN is produced with the same co-formulants, with the same manufacturing process and at the same plant location, we can consider that the results who will obtained for the product MADEX TWIN would be extrapolated to MADEX DUO. Study on shelf life of MADEX TWIN following storage at 5°C during 24 months in commercial packaging was provided and considered as acceptable.

The MADEX DUO product must be store at a temperature inferior at 5°C (indicated on label).

The formulation is classified as a surface active. After dilution, the preparation forms foam in acceptable limit. Suspensibility and pourability of the preparation are in acceptable limit. At wet sieve test study, 1.1% residues were retained on a 75  $\mu$ m sieve (acceptable limit).

Its technical characteristics are acceptable for a capsule suspension formulation.

The formulation contains <10 % hydrocarbons.

The formulation does not contain co-formulates classified H304 cat.1 > 10 %

MADEX DUO is used at the concentration of 0.003125 to 0.025 % v/v

#### 2.1.2 Methods of analysis

#### 3.1.2.1 Analytical method for the formulation

MADEX TWIN was one of the representative formulations in the EU review of CpGV. Analytical methods for determination of CpGV and impurities in MADEX TWIN were evaluated as part of the EU review of CpGV. The methods are considered adequate. These methods are applicable for MADEX DUO because MADEX TWIN contains the same components as MADEX DUO, with the only exception that another CpGV isolate is used.

#### 3.1.2.2 Analytical methods for residues

The nature of the product and its active substance are not adequately described and assessed by applying the term 'residue', or by quantifying 'residues', since this definition commonly implies a toxicological concern of the residual deposit of a plant protection product, which is not attributable to CpGV, for the following reasons:

- CpGV is of natural origin and not genetically modified. It belongs to the family of Baculoviridae, which are naturally present in our environment. Therefore, their application in pest control means only a fluctuation of the virus titre in the biotope of the pest insect.
- Baculoviruses are highly arthropod-specific viruses, which are not harmful to non-arthropods, including domestic animals and humans.
- The experience that contact of baculoviruses with humans or animals does not involve any risk for their health has been confirmed by numerous acute and subacute toxicity studies. In addition, tests with mammalian cell cultures as well as studies on mutagenicity, teratogenicity and carcinogenicity all gave negative results.
- Baculoviruses do not produce toxins or secondary metabolites of toxicological concern.
- Baculoviruses are unable to enter plant tissues and to infest them. They are also unable to multiply on plant surfaces.
- Baculoviruses and especially CpGV are rapidly inactivated by the UV-portion in sunlight. Stable virus deposits, therefore, are not assumed.

• In general, the period between MADEX DUO application and harvest is several weeks and certainly enough for avoiding relevant residues on the harvested fruits.

Cydia pomonella granulovirus (CpGV) is not pathogenic to humans and is not expected to produce toxins that are relevant for human health. In view of those conclusions, the Commission considers that the inclusion of such substance in Annex IV to Regulation (EC) No 396/2005 is appropriate (please refer to Commission Regulation (EU) 2016/439 of 23 March 2016 amending Annex IV to Regulation (EC) No 396/2005 of the European Parliament and of the Council as regards Cydia pomonella granulovirus (CpGV)). In consequence no MRL are required in crops, in foodstuffs and feeding stuffs, in animal and human body tissues and fluids. Additionally, no residue definition is proposed for environmental matrices (soil, water and air). Therefore, methods for the determination and quantification of residues are currently not required.

#### 2.1.3 Mammalian Toxicology

The derivation of reference values was not necessary based on the absence of toxicity, infectivity and pathogenicity indications of the micro-organism.

#### 2.1.3.1 Acute Toxicity

MADEX DUO has a low toxicity in respect to acute oral, inhalation and dermal toxicity and is not irritating to the skin or eye and is not a skin sensitiser.

#### 3.1.3.2 Operator Exposure

Based on the lack of significant toxicity, infectivity and pathogenicity potential in the available studies, the setting of reference values is not necessary (EFSA Journal 2022;20(11):7630). Therefore, no unacceptable risk for operators is expected following the claimed uses.

Taking into account that microorganisms are per se considered as potential sensitisers, adequate personal protective equipment is necessary as a condition of use.

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

#### 3.1.3.3 Bystander Exposure

Based on the lack of significant toxicity, infectivity and pathogenicity potential in the available studies, the setting of reference values is not necessary (EFSA Journal 2022;20(11):7630). Therefore, no unacceptable risk for bystanders is expected following the claimed uses.

# 3.1.3.4 Worker Exposure

Based on the lack of significant toxicity, infectivity and pathogenicity potential in the available studies, the setting of reference values is not necessary (EFSA Journal 2022;20(11):7630). Therefore, no unacceptable risk for workers is expected following the claimed uses.

Taking into account that microorganisms are per se considered as potential sensitisers, adequate personal protective equipment is necessary as a condition of use.

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

#### 3.1.3.5 Resident Exposure

Based on the lack of significant toxicity, infectivity and pathogenicity potential in the available studies, the setting of reference values is not necessary (EFSA Journal 2022;20(11):7630). Therefore, no unacceptable risk for residents is expected following the claimed uses.

#### 2.1.4 Residues and Consumer Exposure

In the framework of EU evaluations on Baculovirus (Review report 'PLAN/2023/240 RR – Rev. 2) and EFSA conclusions (EFSA Journal 2022;20(11):7630), it was concluded that:

- CpGV are not pathogenic to humans or mammals.
- Cydia pomonella GV (CpGV) are not able to produce antimicrobial substances, toxins or secondary metabolites.
- Baculoviruses are not infective for mammals, replication does not occur in mammalian cells, and they do not produce any metabolites and toxins.
- No pathogenic, genotoxic, mutagenic, or carcinogenic effects of baculoviruses were ever observed in mammals,
- Based on the lack of significant toxicity, infectivity or pathogenicity in the available toxicological studies the setting of dietary toxicological values was not relevant.

Consequently, *Cydia pomonella* granulovirus was included in Annex IV of Regulation (EC) No 396/2005. Therefore, it is considered that the risk of residue on pome fruits, walnuts and stone fruits can be considered as negligible and that no further information is considered necessary.

In the preparation MADEX DUO, contamination with *Bacillus cereus* is within the acceptable limits established for the manufacturing plant protection product. ( $<10^7$  CFU/g).

Consequently, it can be concluded that the intended uses of MADEX DUO do not represent a risk for the consumer.

#### 2.1.5 Environmental fate and behaviour

The fate and behaviour in the environment have been evaluated according to the requirements of Regulation (EC) No 1107/2009.

C. pomonella granulovirus is naturally present in the environment. According to the available information in the literature, C. pomonella granulovirus does not produce metabolites of concern.

PECsoil and PECsw derived for the active substance are used for the eco-toxicological risk assessment. No unacceptable risk of groundwater contamination for microorganism is expected for the intended uses.

#### 2.1.6 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 and their metabolite 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, aquatic organisms, mammals, bees and other non-target arthropods, earthworms, other soil macro-organisms and micro-organisms and terrestrial plants are acceptable for the intended uses in the conditions of uses described under 2.2.2.

#### 2.1.7 Efficacy

#### **Considering the data submitted:**

The effectiveness level of MADEX DUO at 0.1~L/ha with a maximum of 15 applications against Cydia pomonella on pome fruits and walnuts is considered acceptable for this type of product based on microorganisms.

The effectiveness level of MADEX DUO at 0.1 L/ha with a maximum of 15 applications against Grapholita molesta is considered acceptable for this type of product based on microorganisms.

However, as the interest of the 30 applications claimed at 0.05 L/ha has not been demonstrated for these same uses in the current resistance context, the assessment cannot be finalized for the 30 applications at the specific dose of 0.05 L/ha.

The phytotoxicity level of MADEX DUO is considered negligible for all the requested uses.

The risks of negative impact on yield, quality, transformation processes (cider-making) and propagation are considered negligible.

The risk of negative impact on adjacent crops is considered negligible.

There is a risk of resistance to CpGV GV-0017 for Cydia pomonella requiring a monitoring.

In the current context of resistance, the level of effectiveness of the product on based on Cydia pomonella GranuloVirus could be affected locally. Consequently, it would be recommended to avoid to treat 2 successive generations of the target with a product based on Cydia pomonella GranuloVirus, and to alternate the type of isolate in the best possible way.

In order to limit the resistance risk, agricultural recommendations are proposed.

# Resistance monitoring data

A monitoring of resistance to CpGV GV-0017 for Cydia pomonella should be put in place.

A report on the results of the survey put in place for all products based on this substance should be provided at the time of the demand of renewal for the product.

#### **Agricultural recommendations**

It would be recommended to avoid to treat 2 successive generations of the target with a product based on *Cydia pomonella Granulo Virus*, and to alternate the type of isolate in the best possible way.

# 2.2 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.

#### 2.3 Substances of concern for national monitoring

No information stated.

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

#### 2.4.1 Post-authorisation monitoring

A monitoring of resistance to CpGV GV-0017 for Cydia pomonella should be put in place.

A report on the results of the survey put in place for all products based on this substance should be provided at the time of the demand of renewal for the product.

# 2.4.2 Post-authorisation data requirements

The French Decision requests the submission of post-authorisation confirmatory pieces of information:

- none

#### 2.4.3 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



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

# Madex® Duo Insecticide de biocontrôle

Virus de la granulose de Cydia pomonella, isolat GV-0017 : 3 x 10<sup>13</sup> corps viraux/L.

Traitement des parties aériennes fruits à noyau, à pépins, et à coque contre les chenilles
foreuses des fruits : Cydia pomonella et Grapholita molesta : 0,1 L/ ha. Formulation : suspension concentrée (SC).

1L



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