

# **REGISTRATION REPORT**

## **Part A**

### **Risk Management**

**Product code: ANL-F001**

**Product name: ARMICARB JARDIN**

**Chemical active substance:**

**Potassium hydrogen carbonate, 850 g/kg**

**Southern Zone**

**Zonal Rapporteur Member State: France**

**NATIONAL ASSESSMENT FRANCE**

**(authorisation renewal according to Art. 43)**

**Applicant: DE SANGOSSE S.A.S.**

**Date: 09 July 2025**

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# PART A

## RISK MANAGEMENT

### 1 Details of the application

The company DE SANGOSSE S.A.S. has requested a marketing authorisation renewal in France for the product ARMICARB JARDIN (product code: ANL-F001), containing 850 g/kg of potassium hydrogen carbonate<sup>1</sup> as a fungicide for non-professional uses.

Appendix 1 of this document provides a copy of the product authorisation renewal.

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

#### 1.1 Application background

The present registration report concerns the evaluation of DE SANGOSSE S.A.S.'s application submitted on 27/01/2022 to market ARMICARB JARDIN (ANL-F001) in France (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 re-registration of authorisation after the renewal of approval of the active substance potassium hydrogen carbonate of this product in France and in other Member States (MSs) of the Southern zone.

Potassium hydrogen carbonate is a low risk active substance, therefore ARMICARB JARDIN (ANL-F001) shall be authorised as a low risk plant protection product where compliant with Article 47 of Regulation (EC) no 1107/2009.

The present application (2022-1015) was evaluated in France by the French Agency for Food, Environmental and Occupational Health & Safety (Anses), according to the Regulation (EC) no 1107/2009<sup>2</sup>, the implementing regulations, and French regulations. This application was assessed in the context of the zonal procedure for all MSs of the Southern zone, taking into account the worst-case uses ("risk envelope approach")<sup>3</sup>. When risk mitigation measures were necessary, they are adapted to the situation in France.

The data taken into account are those deemed to be valid either at European level (Review Report and EFSA conclusion) or at zonal/national level. The assessment of ARMICARB JARDIN (ANL-F001) has been made using endpoints agreed in the EU peer review of potassium hydrogen carbonate. It also includes assessment of data and information related to ARMICARB JARDIN (ANL-F001) where those data have not been considered in the EU peer review process.

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 risk assessment conclusions provided in this document are based on the information, data and assessments provided in the Registration Report, Part B Sections 1-10 and Part C, and where appropriate the addendum for France.

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<sup>1</sup> Commission Implementing Regulation (EU) 2021/1452 of 3 September 2021 renewing the approval of the active substance potassium hydrogen carbonate as a low-risk substance in accordance with Regulation (EC) No 1107/2009 of the European Parliament and of the Council concerning the placing of plant protection products on the market, and amending the Annex to Commission Implementing Regulation (EU) No 540/2011

<sup>2</sup> 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>3</sup> 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](#)

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The conclusions on the acceptability of risk are based on the criteria provided in Regulation (EU) No 546/2011<sup>4</sup>, and are expressed as “acceptable” or “not acceptable” in accordance with those criteria.

This document also describes the specific conditions of use and labelling required for France for the registration of ARMICARB JARDIN (ANL-F001).

## 1.2 Letters of Access

The applicant has provided a letter of access for active substance and PPP data. This letter of access is available upon request.

## 1.3 Justification for submission of tests and studies

According to the applicant: « ANL-F001 was the representative formulation for first inclusion of potassium hydrogen carbonate as well as for its renewal. New product studies have been submitted for this application in the area of Identity, physico-chemical properties and methods of analysis as it is required for the renewal of authorization according to Art. 43 following comments of authorities in the AIR process and data gaps in EFSA conclusions (EFSA, 2021). All other data were EU peer-reviewed data or data already evaluated under Uniform Principles for the first authorization or subsequent label extensions of ANL-F001 under art. 33 (zRMS: France).

Further details are included in the relevant sections of Part B of the registration report ».

## 1.4 Data protection claims

Where protection for data is being claimed for information supporting registration of ANL-F004, it is indicated in the reference lists in Appendix 1 of the Registration Report, Part B Sections 1-7.

# 2 Details of the authorisation renewal decision

## 2.1 Product identity

Product code	ANL-F001
Product name in MS	ARMICARB JARDIN
Authorisation number	2110196
Kind of use	Non-professional use
Low risk product (article 47)	Yes
Function	Fungicide
Applicant	DE SANGOSSE S.A.S.
Active substance(s) (incl. content)	potassium hydrogen carbonate 850 g/kg

<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

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Formulation type	Soluble Powder [Code: SP]
Packaging	Bags of 100g, 150g, 200g, 250g, 300g, 350g, 400g, 450g, 500g made of LDPE/PET Single-dose sachets of 10g, 20g, 25g, 30g, 40g, 50g made of LDPE/PET in carton box of 100g, 150g, 200g, 250g, 300g, 350g, 400g, 450g, 500g Bag of 100g made of paper/HDPE/aluminium/HDPE in carton box Containers of 100g, 150g, 200g, 250g, 300g, 350g, 400g, 450g, 500g made of HDPE. <i>Compliance with the provisions of French regulation relating to the conditions of authorisation of plant protection products by non-professional users<sup>5</sup> is considered to be finalised for the proposed packaging listed above.</i>
Coformulants of concern for national authorisations	-
Restrictions related to identity	-
Mandatory tank mixtures	None
Recommended tank mixtures	None

## 2.2 Conclusion

The evaluation of the application for PRODUCT NAME resulted in the decision **to grant** the authorisation renewal.

## 2.3 Substances of concern for national monitoring

Refer to 5.1.1.

## 2.4 Classification and labelling

### 2.4.1 Classification and labelling under Regulation (EC) No 1272/2008

The following classification is proposed in accordance with Regulation (EC) No 1272/2008:

Hazard class(es), categories:	No classification for human health. - No classification for the environment
Hazard pictograms:	-
Signal word:	-
Hazard statement(s):	-
Precautionary statement(s):	<b><i>For the P phrases, refer to the existing legislation</i></b>

<sup>5</sup> Arrêté du 6 avril 2020 relatif aux conditions d'autorisation d'un produit phytopharmaceutique pour la gamme d'usages « amateur »

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Additional labelling phrases:	- the diluted product should be shaken before and during the application.
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See Part C for justifications of the classification and labelling proposals.

## 2.4.2 Standard phrases under Regulation (EU) No 547/2011

	For other restrictions refer to 2.5

## 2.4.3 Other phrases (according to Article 65 (3) of the Regulation (EU) No 1107/2009)

None.

## 2.5 Risk management

According to the French law and procedures, specific conditions of use are set out in the Decision letter. The French Order of 4 May 2017<sup>6</sup> provides that:

- unless otherwise stated in the product authorisation, the pre harvest interval (PHI) is at least 3 days;
- unless otherwise stated in the product authorisation, the minimum buffer zone alongside a water body is 5 metres for products applied through spraying or dusting;
- unless otherwise stated in the product authorisation, the minimum re-entry period is 6 hours for field uses and 8 hours for indoor uses.

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

Finally, the French Order of 12 April 2021<sup>7</sup> provides that:

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

Moreover, at French national level, possible extrapolation of submitted data and the corresponding assessment from “reference” crops to “related” ones are undertaken even if not clearly requested by the applicant in their dRR, and a conclusion is also reached on the acceptability of the intended uses on those “related” crops. The aim of this Order, mainly based on the EU document on residue data extrapolation<sup>8</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.

<sup>6</sup> 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, amended by the arrêté du 27 décembre 2019 relatif aux mesures de protection des personnes lors de l'utilisation de produits phytopharmaceutiques <https://www.legifrance.gouv.fr/eli/arrete/2017/5/4/AGRG1632554A/jo/texte> ; <https://www.legifrance.gouv.fr/affichTexte.do?cidTexte=JORFTEXT000039686039&categorieLien=id>

<sup>7</sup> <https://www.legifrance.gouv.fr/jorf/id/JORFTEXT000043401456>

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

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Finally, the French Order of 20 November 2021<sup>9</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>10</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.

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

### 2.5.1 Restrictions linked to the PPP

The authorisation renewal of the PPP is linked to the following conditions:

:

Operator protection:	
-	Refer to the Decision in Appendix 1 for the details.
Worker protection:	
-	Refer to the Decision in Appendix 1 for the details.
Integrated pest management (IPM)/sustainable use:	
	-
Environmental protection	
	Do not discharge into the sink, gutter or any other water hole the non-used container leftovers and the sprayer washing water.
	To protect aquatic organisms do not apply at least 5 meters away from any surface water bodies (well, pond, stream, river,...).
Other specific restrictions	
Re-entry period	Wait until the treated zone or plants have dried.
Storage	None
Risk mitigation measures	None
Risk mitigation measures	None.
Agricultural recommendations	Shake before application and make sure the spray mixture is homogeneous before use.
Labelling recommendation	The product efficacy level being variable and partial, specify the optimal conditions of use

<sup>9</sup> <https://www.legifrance.gouv.fr/jorf/id/JORFTEXT000044346734>

<sup>10</sup> List 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.



## **2.5.2 Specific restrictions linked to the intended uses**

Some of the authorised uses are linked to the following conditions in addition to those listed under point 2.5.1 (mandatory labelling):

None.

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**2.6 Intended uses (only NATIONAL GAP)**

**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: 2025 July 09

PPP (product name/code): ARMICARB JARDIN / ANL-F001

Formulation type: SP <sup>(a, b)</sup>

Active substance 1: Potassium hydrogen carbonate

Conc. of a.s. 1: 850 g/kg <sup>(c)</sup>

Applicant: De Sangosse S.A.S.

Professional use: ☐Zone(s): Southern Zone/<sup>(d)</sup>Non-professional use: ☒

Verified by MS: Yes

Field of use: Fungicide

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Use- No. <sup>(e)</sup>	Member state(s)	Crop or situation  (crop destination/purpose of crop)	F, Fn, Fpn G, Gn, Gpn 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/synergis per ha ( <sup>f</sup> )
					Method/Ki nd	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 a.s./ha a) max. rate per appl. b) max. total rate per crop/season	Water L/ha  min/max		
Zonal uses (field or outdoor uses, certain types of protected crops)													
1	FR	Rose	Fn	Powdery mildew (Sphaerotheca pannosa)	Spraying on crop	BBCH 41-59	a) 6 b) 6	7	a) 5 b) 30	a) 4.25 b) 25.5	500- 2000	n.a	Acceptable
2	FR	Ornamentals: hardwood and shrub Pot plants (e.g. Amelanchier...) Cut foliage (e.g. Euonymus...)	Fn	Powdery mildew	Spraying on crop	BBCH 10-89	a) 6 b) 6	7	a) 5 b) 30	a) 4.25 b) 25.5	500- 2000	n.a	Acceptable

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
Use- No. <sup>(e)</sup>	Member state(s)	Crop or situation  (crop destination/purpose of crop)	F, Fn, G, Gn, Gpn 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 <sup>(f)</sup>
					Method/Ki nd	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 a.s./ha a) max. rate per appl. b) max. total rate per crop/season	Water L/ha min/ma x		
3	FR	Ornamentals (herbaceous): Flower plants Pot plants (e.g. Chrysanthemums) Cut flowers (e.g. Gerbera, Daisy)	Fn	Powdery mildew	Spraying on crop	BBCH 10-89	a) 6 b) 6	7	a) 3 b) 18	a) 2.55 b) 15.3	500- 2000	n.a	Acceptable
4	FR	Peach – PRNPS (incl. Nectarine – PRNPN, Apricot)	Fn	Monilinia fructicola MONIFC Monilinia fructigena MONIFG Monilinia laxa MONILA	High volume spraying / broadcast	79-89	a) 3 b) 3	3	a) 5 b) 15	a) 4.25 b) 12.75	500- 1500	1	Acceptable
5	FR	Apple – MABSD (incl. pear, quince, medlar, nashi)	Fn	Apple scab – Venturia inaequalis – VENTIN	High volume spraying / broadcast	07-89	a) 5 b) 5	8	a) 5 b) 25	a) 4.25 b) 21.25	400- 1500	1	Acceptable
6	FR	Melon- Cucumis melo (CUMME)	Fn	Powdery mildew Podospaera xanthii (PODOXA) Golovinomyces Cichoracearum (ERYSCI)	Foliar spraying/ overall (hydraulic pressure sprayer)	10-89	a) 8 b) 8	7	a) 3 b) 24	a) 2.55 b) 20.4	300 - 1000	1	Acceptable
7	FR	Water melon – Citrullus lanatus (CITLA) Pumpkin- Cucurbita maxima (CUUMA) Cucurbits with non edible skin (CUUPE...)	Fn	Powdery mildew Podospaera xanthii (PODOXA) Golovinomyces Cichoracearum (ERYSCI)	Foliar spraying/ overall (hydraulic pressure sprayer)	10-89	a) 8 b) 8	7	a) 3 b) 24	a) 2.55 b) 20.4	600- 1000	1	Acceptable

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
Use- No. <sup>(e)</sup>	Member state(s)	Crop or situation  (crop destination/purpose of crop)	F, Fn, G, Gn, Gpn 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 <sup>(f)</sup>
					Method/Ki nd	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 a.s./ha a) max. rate per appl. b) max. total rate per crop/season	Water L/ha min/ma x		
8	FR	Strawberry	Fn	Powdery mildew	Broadcast using air blast or hydraulic pressure sprayer	10-85	a) 8 b) 8	7	a) 3 b) 24	a) 2.55 b) 20.4	600- 1000	1	Acceptable
9	FR	Cucumber Courgette Gherkin	Fn	Powdery mildew	Broadcast using air blast or hydraulic pressure sprayer	10-89	a) 8 b) 8	7	a) 3 b) 24	a) 2.55 b) 20.4	300 - 1000	1	Acceptable
10	FR	Herbs, aromatic and medicinal plants	Fn	Powdery mildew	Broadcast using air blast or hydraulic pressure sprayer	10-89	a) 8 b) 8	7	a) 3 b) 24	a) 2.55 b) 20.4	500- 1000	1	Acceptable
11	FR	Blackcurrant Redcurrant Raspberry and other Rubus sp.	Fn	Powdery mildew	Broadcast using air blast or hydraulic pressure sprayer	10-87	a) 8 b) 8	7	a) 5 b) 40	a) 4.25 b) 34	200- 600	1	Acceptable
12	FR	Grapevine	Fn	Powdery mildew	Broadcast using air blast orchard sprayer	12-89	a) 8 b) 8	7	a) 5 b) 40	a) 4.25 b) 34	200- 600	1	Acceptable

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1	2	3	4	5	6	7	8	9	10	11	12	13	14
Use- No. <sup>(e)</sup>	Member state(s)	Crop or situation  (crop destination/purpose of crop)	F, Fn, Fpn G, Gn, Gpn 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 <sup>(f)</sup>
					Method/Ki nd	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 a.s./ha a) max. rate per appl. b) max. total rate per crop/season	Water L/ha min/max		
13	FR	Grapevine	Fn	Botrytis	Broadcast using air blast orchard sprayer	BBCH 61 - 89	a) 8 b) 8	7	a) 5 b) 40	a) 4.25 b) 34	200- 600	1	Acceptable
14	FR	Tomato, Sweet pepper, Chilis, Aubergine, Physalis, Goji berry	Fn	Powdery mildew	Spraying on crop	10-89	a) 8 b) 8	7	a) 3 b) 24	a) 2.55 b) 20.4	300 - 1000	1	Acceptable
256	FR	Artichoke – Cynara scolymus (CYUSC) Cardoon – Cynara cardunculus (CYUCA)	Fn	Powdery mildew Leveillula (LEVETA) taurica	Foliar spraying/ overall (hydraulic pressure sprayer)	10-69	a) 8 b) 8	7	a) 3 b) 24	a) 2.55 b) 20.4	600- 1000	1	Acceptable*

**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

\* Use initially authorized under Article 51 of Regulation (EC) No. 1107/2009.

- (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.

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<b>Remarks columns:</b>	1	Numeration necessary to allow references	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
	2	Use official codes/nomenclatures of EU Member States	8	The maximum number of application possible under practical conditions of use must be provided.
	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)	9	Minimum interval (in days) between applications of the same product
	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	10	For specific uses other specifications might be possible, e.g.: g/m <sup>3</sup> in case of fumigation of empty rooms. See also EPPO-Guideline PP 1/239 Dose expression for plant protection products.
	5	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.	11	The dimension (g, kg) must be clearly specified. (Maximum) dose of a.s. per treatment (usually g, kg or L product/ha).
	6	Method, e.g. high volume spraying, low volume spraying, spreading, dusting, drench	12	If water volume range depends on application equipments (e.g. ULVA or LVA) it should be mentioned under "application: method/kind".
		Kind, e.g. overall, broadcast, aerial spraying, row, individual plant, between the plants - type of equipment used must be indicated.	13	PHI - minimum pre-harvest interval
			14	Remarks may include: Extent of use/economic importance/restrictions

### 3 Background of authorisation renewal decision and risk management

#### 3.1 Physical and chemical properties (Part B, Section 2)

All studies have been performed in accordance with the current requirements. The appearance of the product is that of white off free-flowing powder comprising agglomerates, with a no odour. It is not explosive, has no oxidising properties. The product is not flammable nor it self-ignites. In aqueous solution (1%), it has a pH value around 8.33 at 20 °C. There is no effect of high temperature on the stability of the formulation, since after 14 days at 54 °C, neither the active ingredient content nor the technical properties were changed. The stability data indicate a shelf life of at least 2 years at ambient temperature when stored in *LDPE-bag*. Its technical characteristics are acceptable for a *SP* formulation. Due to its chemical nature (salts), ARMICARB JARDIN (ANL-F001) is hygroscopic under ambient conditions and aggregates tend to form during storage. However specific test on aggregates show that the dissolution degree and stability is acceptable, including after accelerated stability storage and shelf-life stability storage. The dissolution is related to final concentration of the product in the spray rather than the physical form.

Considering the results of dissolution degree and the solution stability tests, it is recommended that the formulation is shaken after storage and before application at concentration higher than 2.5%. As the residues are close to 2%, RMS also considers that a test in real conditions should be provided to confirm that the product is easily applied with the spraying device.

Persistent foaming is more important at low use rate. Since minimum use rate tested (2.5% w/v) in study De Rycker S (2013) is higher than the proposed use rates (0.15-2.5%), a second test is available at the lower use rates (0.3-0.5% w/v). Results at 0.5% w/v were slightly higher than the maximum limit (64mL). However, regarding the nature of the formulants and since the product is not classified, results were considered sufficient and there is no risk regarding human exposure. However risk related to possible issues during the application with the recommended equipment should be also considered. Also, variability of the treatment on the crops may not be excluded.

To cover the issues on persistent foaming, RMS considers that a test in real conditions should be provided to confirm that the product is easily applied with the spraying device.

**Labelling mention:** the diluted preparation should be shaken before and during the application.

#### 3.2 Efficacy (Part B, Section 3)

- ARMICARB JARDIN (ANL-F001) efficacy is considered as variable and partial but acceptable for this kind of products based on a low risk active ingredient.
- ARMICARB JARDIN (ANL-F001) risk of phytotoxicity is considered negligible
- ARMICARB JARDIN (ANL-F001) risks of adverse effect on yield, quality, transformation processes and multiplication are considered negligible
- ARMICARB JARDIN (ANL-F001) risks of adverse effect on succeeding and adjacent crops are considered negligible
- The risk of resistance appearance or development to potassium hydrogen carbonate is considered very low and should not be amplified in the framework of a non-professional use..

### 3.3 Methods of analysis (Part B, Section 5)

#### 3.3.1 Analytical method for the formulation

Analytical methods for the determination of the active substance and the relevant impurities (lead, arsenic) in the formulation are available and validated.

#### 3.3.2 Analytical methods for residues

As no MRLs exist for potassium hydrogen carbonate, no analytical methods for residues are necessary. Additionally, no residue definition has been proposed nor is considered required in the List of EndPoints for a.s. renewal and monitoring/enforcement methods are noted as “not applicable” (EFSA Journal 2021;19(5):6593).

### 3.4 Mammalian toxicology (Part B, Section 6)

#### Endpoints used in risk assessment

Agreed EU endpoints	
Active substance	Potassium hydrogen carbonate.
AOEL systemic	149 mg/kg bw/day.
Oral absorption	100%.
Reference	EFSA 2021: EFSA Journal 2021;19(5):6593.
Dermal absorption	Concentrate : 10%. Dilution : 50%.

#### 3.4.1 Acute toxicity

ARMICARB JARDIN (ANL-F001) containing 850 g/kg potassium hydrogen carbonate has a low toxicity in respect to acute oral, inhalation and dermal toxicity and is not irritating to the rabbit skin or eye and is not a skin sensitiser.

#### 3.4.2 Operator exposure

Considering the proposed uses, the operator systemic exposure was estimated using the EFSA model and the French study from UPJ dedicated to amateur use :



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Model data	Potassium hydrogen carbonate	
	Level of PPE	% AOEL
<b>UPJ model:</b> <b>Application : Trigger sprayer</b> <b>outdoor</b> <b>Grapes (worst case scenario)</b>		
Application rate: 5 g/10m <sup>2</sup> ARMICARB JARDIN		21.25 g/L potassium hydrogen carbonate
<b>Spray application</b> (AOEM; 75th percentile) Body weight: 60 kg	No PPE	0.24

<b>EFSA model:</b>			
<b>Non-professional uses:</b>			
No model was validated within EU for non-professional exposure assessment. The estimation of the operator exposure for non-professional uses is estimated with <b>EFSA model in TIER I</b> and is presented in the table below:			
		<b>Potassium hydrogen carbonate</b>	
<b>Model data</b>	<b>Level of PPE</b>	<b>Total absorbed dose (mg/kg/day)</b>	<b>% of systemic AOEL</b>
Manual knapsack outdoor, downward applications, <b>ornamentals, low berries and small fruits, legume vegetables, root and tuber vegetables, leaf vegetables and fresh herbs</b> (critical crops).			
Application rate		4.25 kg a.s./ha	
<b>Spray application</b> EFSA model Body weight: 60 kg	Potential exposure	2.1861	1.47

According to the model calculations, it can be concluded that the risk for the operator using ARMICARB JARDIN (ANL-F001) is acceptable.

### 3.4.3 Worker exposure

ARMICARB JARDIN (ANL-F001) is intended to be used by amateurs during home garden application. In this case of the non-professional user, the worker is also the user of the product. It will be necessary to ensure complete drying of the treated area or of treated plants before handling .

### 3.4.4 Bystander exposure

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In the context of use by non-professionals, it is considered that the assessment for bystanders is covered by the operator exposure.

### 3.4.5 Resident exposure

There is no suitable model to assess residential exposure for non-professional uses. As a worst case approach, the recreational exposure estimation has been used for resident.

zRMS therefore assessed the resident exposure using the following:

- dermal absorption values: 10% for the concentrate, 50% for the dilution
- a buffer zone of 2-3 meters

The estimated resident exposure is presented in the table below :

<b>EFSA model – Recreational exposure</b> Application rate: 8 x 4.25 kg as./ha	
Child	2.00
Adult	0.84

An acceptable risk was determined for resident (adult and child).

### 3.4.6 Combined exposure

## 3.5 Residues and consumer exposure (Part B, Section 7)

The data available are considered sufficient for risk assessment.

Potassium hydrogen carbonate is included in Annexe IV to 396/2005/EC regulation, which includes those active substances where no MRL are required.

In the framework of the Peer Review, the setting of an acute reference dose (ARfD) and an acceptable daily dose (ADI) was not deemed necessary for this active substance. The chronic and the short-term intakes assessments are therefore not necessary.

As far as consumer health protection is concerned, France, zRMS agrees with the authorization of the intended use(s).

## Summary for ARMICARB JARDIN (ANL-F001)

**Table :** Information on ARMICARB JARDIN (ANL-F001) (KCA 6.8)

Crop	PHI for ARMI-CARB JARDIN proposed by applicant	PHI/ Withholding period* sufficiently supported for	PHI for ARMICARB JARDIN proposed by zRMS	zRMS Comments (if different PHI proposed)
		Potassium hydrogen carbonate		
All crops with PHI = 0 day	0 day	Yes	0 day	

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Crop	PHI for ARMI-CARB JARDIN proposed by applicant	PHI/ Withholding period* sufficiently supported for	PHI for ARMICARB JARDIN proposed by zRMS	zRMS Comments (if different PHI proposed)
		Potassium hydrogen carbonate		
All crops with PHI = 1 day	1 day	Yes	1 day	
All crops with PHI = NA	NA	Yes	NA	

NR: not relevant

\* Purpose of withholding period to be specified

\*\* F: PHI is defined by the application stage at last treatment (time elapsing between last treatment and harvest of the crop).

**Waiting periods before planting succeeding crops**

Not relevant.

**3.6 Environmental fate and behaviour (Part B, Section 8)**

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 PEC values for the active substance and its dissociation products 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 evaluation performed takes into account the specificity of the intended non-professional uses (amateur use, home and garden). The PEC of potassium hydrogen carbonate and its dissociation products (potassium and bicarbonate ions) in soil, surface water and groundwater have been assessed according to FOCUS guidance documents, with specific approaches for home and garden uses, and the endpoints established in the EU conclusions or agreed in the assessment based on new data provided.

Since the product ARMICARB JARDIN (ANL-F001) is for non-professional uses, the exposure assessment for soil is not deemed as required at FR national level.

PEC<sub>SW</sub> derived for the active substance are used for the ecotoxicological risk assessment.

Considering the nature and natural occurrence of potassium bicarbonate in the environment, PEC<sub>GW</sub> were not deemed necessary for this active substance. No unacceptable risk of groundwater contamination is expected for the intended uses.

Based on the nature of the active substance, no significant contamination of the air compartment is expected for the intended uses.

**3.7 Ecotoxicology (Part B, Section 9)**

The ecotoxicological risk assessment of the formulation was performed according to the requirements of

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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.

The risk assessment for birds, aquatic organisms and bees was performed due to a potential increase of the treated areas and spray drift, by assuming that the non-professional user can use a back-pack sprayer. Mitigation measures are required for aquatic organisms.

### **3.8 Relevance of metabolites (Part B, Section 10)**

An assessment was conducted according to the SANCO/221/2000 guidance document. Please refer to environmental fate and behaviour above for conclusion on the risk of groundwater contamination.

## **4 Conclusion of the national comparative assessment (Art. 50 of Regulation (EC) No 1107/2009)**

The active substance Potassium hydrogen carbonate is not approved as a candidate for substitution, therefore a comparative assessment is not foreseen.

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

When the conclusions of the assessment is “Not acceptable”, please refer to relevant summary under point 3, “Background of authorisation renewal decision and risk management”.

### **5.1.1 Post-authorisation monitoring**

None.

### **5.1.2 Post-authorisation data requirements**

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

- Dilution stability and persistent foaming slightly exceed the threshold limits. To cover these issues, test in real conditions should be provided to demonstrate that the product is easily applied with the spraying device.

## Appendix 1 Copy of the product authorisation renewal



### Décision relative à une demande de renouvellement de l'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 de renouvellement de l'autorisation de mise sur le marché, suite au renouvellement de l'approbation de la substance active hydrogénocarbonate de potassium, et les données fournies en réponse aux demandes de post-autorisation du produit phytopharmaceutique **ARMICARB JARDIN***

*de la société* DE SANGOSSE S.A.S.

*enregistrées sous les* n° 2022-1015 et 2014-1334

*Vu les conclusions de l'évaluation de l'Anses du 7 octobre 2024,*

*Vu les éléments transmis par la direction en charge de l'évaluation des produits réglementés de l'Anses le 7 mars 2025,*

L'autorisation de mise sur le marché du produit phytopharmaceutique désigné ci-après est renouvelée en France, sous réserve du respect de la composition du produit autorisée dans les conclusions de l'évaluation, pour les usages et dans les conditions précisés dans la présente décision et son annexe.

La présente décision 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.

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Informations générales sur le produit	
Noms du produit	ARMICARB JARDIN APC-10CD
Type de produit	Produit de référence (initialement deuxième gamme avant le renouvellement)
Titulaire	DE SANGOSSE S.A.S. Bonnel CS 10005 47480 PONT-DU-CASSE France
Formulation	Poudre soluble dans l'eau (SP)
Contenant	850 g/kg - hydrogénocarbonate de potassium
Numéro d'intrant	2110329
Numéro d'AMM	2110196
Fonction	Fongicide
Gamme d'usage	Amateur / emploi autorisé dans les jardins
Mention particulière	Produit à faible risque au sens de l'article 47 du règlement (CE) n° 1107/2009

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 31 octobre 2037.

Le dépôt d'une demande de renouvellement conformément à l'article 43 du règlement (CE) n° 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 09/07/2025

DocuSigned by:  
Charlotte Grastilleur  
AE281A655A42454

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 : Modalités d'autorisation du produit

<b>Vente et distribution</b>	
Le titulaire de l'autorisation peut mettre sur le marché le produit uniquement dans les emballages :	
Emballage	Contenance
Etuis en carton contenant un sachet en papier / aluminium / polyéthylène haute densité refermable	100 g
Sachets en polyéthylène basse densité / polyéthylène téréphtalate refermables avec un zip	100 g ; 150 g ; 200 g ; 250 g ; 300 g ; 350 g ; 400 g ; 450 g ; 500 g
Bidons en polyéthylène haute densité	100 g ; 150 g ; 200 g ; 250 g ; 300 g ; 350 g ; 400 g ; 450 g ; 500 g
Etuis en carton contenant des sachets unidoses en polyéthylène basse densité / polyéthylène téréphtalate	100 g ; 150 g ; 200 g ; 250 g ; 300 g ; 350 g ; 400 g ; 450 g ; 500 g

<b>Classification du produit</b>
La classification retenue est la suivante : Sans classement.
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.

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**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 Traitée aquatique (mètres)	Zone Non Traitée arthropodes non cibles (mètres)	Zone Non Traitée plantes non cibles (mètres)	Culture attractive en floraison (arrêté du 20/11/2021)
<b>14053204</b> Arbres et arbustes*Trt Part.Aer.*Oïdium(s)	<b>0,5 g/m<sup>2</sup></b>	<b>6/an</b>	entre les stades BBCH 10 et BBCH 89	Non applicable	5	-	-	Non pertinent
Également autorisé sous abri. Intervalle minimum entre les applications : 7 jours.								
<b>16103203</b> Artichaut*Trt Part.Aer.*Oïdium(s)	<b>0,3 g/m<sup>2</sup></b>	<b>8/an</b>	entre les stades BBCH 10 et BBCH 69	1	5	-	-	Non pertinent
Intervalle minimum entre les applications : 7 jours. Usage initialement autorisé selon l'article 51 du règlement (CE) n° 1107/2009. L'utilisation sous abri est refusée car revendiquée dans la demande de renouvellement de l'autorisation de mise sur le marché alors que non précédemment autorisée.								
<b>12153202</b> Cassissier*Trt Part.Aer.*Oïdium(s)	<b>0,5 g/m<sup>2</sup></b>	<b>8/an</b>	entre les stades BBCH 10 et BBCH 87	1	5	-	-	Non pertinent
Intervalle minimum entre les applications : 7 jours.								
<b>16323203</b> Cucurbitacées à peau comestible*Trt Part.Aer.*Oïdium(s)	<b>0,3 g/m<sup>2</sup></b>	<b>8/an</b>	entre les stades BBCH 10 et BBCH 89	1	5	-	-	Non pertinent
Également autorisé sous abri. Intervalle minimum entre les applications : 7 jours.								
<b>16753205</b> Cucurbitacées à peau non comestible*Trt Part.Aer.*Oïdium(s)	<b>0,3 g/m<sup>2</sup></b>	<b>8/an</b>	entre les stades BBCH 10 et BBCH 89	1	5	-	-	Non pertinent
Également autorisé sous abri. Intervalle minimum entre les applications : 7 jours.								

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**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 Traitée aquatique (mètres)	Zone Non Traitée arthropodes non cibles (mètres)	Zone Non Traitée plantes non cibles (mètres)	Culture attractive en floraison (arrêté du 20/11/2021)
<b>17403202</b> Cultures florales et plantes vertes*Trt Part.Aer.*Oïdium(s)	<b>0,3 g/m<sup>2</sup></b>	<b>6/an</b>	entre les stades BBCH 10 et BBCH 89	Non applicable	5	-	-	Non pertinent
Également autorisé sous abri. Intervalle minimum entre les applications : 7 jours.								
<b>16553205</b> Fraisier*Trt Part.Aer.*Oïdium(s)	<b>0,3 g/m<sup>2</sup></b>	<b>8/an</b>	entre les stades BBCH 10 et BBCH 85	1	5	-	-	Non pertinent
Également autorisé sous abri. Intervalle minimum entre les applications : 7 jours.								
<b>12353204</b> Framboisier*Trt Part.Aer.*Oïdium(s)	<b>0,5 g/m<sup>2</sup></b>	<b>8/an</b>	entre les stades BBCH 10 et BBCH 87	1	5	-	-	Non pertinent
Intervalle minimum entre les applications : 7 jours.								
<b>12603203</b> Fruits à pépins*Trt Part.Aer.*Tavelure(s)	<b>0,5 g/m<sup>2</sup></b>	<b>5/an</b>	entre les stades BBCH 07 et BBCH 89	1	5	-	-	Non pertinent
Intervalle minimum entre les applications : 8 jours.								
<b>12553233</b> Pêcher - Abricotier*Trt Part.Aer.*Moniliose(s)	<b>0,5 g/m<sup>2</sup></b>	<b>3/an</b>	entre les stades BBCH 79 et BBCH 89	1	5	-	-	Non pertinent
Intervalle minimum entre les applications : 3 jours.								
<b>16863203</b> Poivron*Trt Part.Aer.*Oïdium(s)	<b>0,3 g/m<sup>2</sup></b>	<b>8/an</b>	entre les stades BBCH 10 et BBCH 89	1	5	-	-	Non pertinent
Également autorisé sous abri. Intervalle minimum entre les applications : 7 jours.								

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<b>Liste des usages autorisés</b> 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 Traitée aquatique (mètres)	Zone Non Traitée arthropodes non cibles (mètres)	Zone Non Traitée plantes non cibles (mètres)	Culture attractive en floraison (arrêté du 20/11/2021)
<b>10993211</b> Porte graine - PPAMC, Florales et Potagères*Trt Part.Aer.*Oïdium(s)	0,3 g/m <sup>2</sup>	8/an	entre les stades BBCH 10 et BBCH 89	Non applicable	5	-	-	Non pertinent
	Également autorisé sous abri. Intervalle minimum entre les applications : 7 jours.							
<b>19993200</b> PPAMC*Trt Part.Aer.*Maladies fongiques	0,3 g/m <sup>2</sup>	8/an	entre les stades BBCH 10 et BBCH 89	1	5	-	-	Non pertinent
	Également autorisé sous abri. Intervalle minimum entre les applications : 7 jours.							
<b>17303203</b> Rosier*Trt Part.Aer.*Oïdium(s)	0,5 g/m <sup>2</sup>	6/an	entre les stades BBCH 41 et BBCH 59	Non applicable	5	-	-	Non pertinent
	Également autorisé sous abri. Intervalle minimum entre les applications : 7 jours.							
<b>16953206</b> Tomate - Aubergine*Trt Part.Aer.*Oïdium(s)	0,3 g/m <sup>2</sup>	8/an	entre les stades BBCH 10 et BBCH 89	1	5	-	-	Non pertinent
	Également autorisé sous abri. Intervalle minimum entre les applications : 7 jours.							
<b>12703204</b> Vigne*Trt Part.Aer.*Oïdium(s)	0,5 g/m <sup>2</sup>	8/an	entre les stades BBCH 12 et BBCH 89	1	5	-	-	Non pertinent
	8 applications maximum par an et par culture. Intervalle minimum entre les applications : 7 jours.							

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Liberté  
Égalité  
Fraternité

**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 Traitée aquatique (mètres)	Zone Non Traitée arthropodes non cibles (mètres)	Zone Non Traitée plantes non cibles (mètres)	Culture attractive en floraison (arrêté du 20/11/2021)
<b>12703205</b> Vigne*Trt Part.Aer.*Pourriture grise	<b>0,5 g/m<sup>2</sup></b>	<b>8/an</b>	entre les stades BBCH 61 et BBCH 89	1	5	-	-	Non pertinent
8 applications maximum par an et par culture. Intervalle minimum entre les applications : 7 jours.								



## Conditions d'emploi du produit

### Stockage et manipulation du produit

- Agiter avant et pendant l'application et s'assurer de l'homogénéité de la bouillie avant son utilisation.

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

- Attendre le séchage complet de la zone traitée.

### Respect des limites maximales de résidus (LMR)

- Le délai avant récolte est fixé à 1 ou 3 jours selon les cultures afin de limiter l'exposition potentielle des consommateurs.

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

#### *Protection de l'eau*

- Ne pas rejeter dans l'évier, le caniveau ou tout autre point d'eau les fonds de bidon non utilisés et les eaux de lavage du pulvérisateur.

#### *Protection de la faune*

- Pour protéger les organismes aquatiques, ne pas appliquer à moins de 5 mètres d'un point d'eau (puits, bassin, mare, ruisseau, rivière, fossé...)

Le produit peut être utilisé sur les usages autorisés, conformément aux conditions d'emploi antérieures à la présente décision pendant une période de 6 mois.

Pour la mise sur le marché français, la fabrication du produit s'opère exclusivement selon la composition intégrale figurant en annexe des conclusions de l'évaluation, dans un délai maximum de 12 mois à compter de la présente décision.

## Recommandations relatives à l'étiquette du produit

Il est recommandé de faire figurer l'information suivante sur l'étiquette :

- L'efficacité du produit étant variable et partielle, préciser les conditions optimales d'utilisation.
- Mettre en place des mesures permettant de limiter la formation de mousse lors du remplissage de la cuve.
- Pour les usages initialement autorisés selon l'article 51 du règlement (CE) n° 1107/2009, vérifier l'efficacité et l'absence de risques éventuels de phytotoxicité sur la culture avant emploi du produit.

## Appendix 2 Copy of the product label

The draft product label as proposed by the applicant is reported below. The draft label may be corrected with consideration of any new element. The label shall reflect the detailed conditions stipulated in the Decision.

### **ARMICARB® JARDIN**

Fongicide sur diverses cultures telles que les rosiers, les cultures ornementales,  
légumières et fruitières

#### **ARMICARB® JARDIN**

AMM n°2110196 délivrée le 15/12/2011

Détenteur de l'autorisation : DE SANGOSSE S.A.S - Bonnel – CS10005 – 47480 PONT-DU-CASSE

Tél. 05 53 69 36 30 - Fax 05 53 66 30 65 - [www.desangosse.fr](http://www.desangosse.fr)

Catégorie d'utilisateur : Amateur - Emploi autorisé dans les jardins

Type d'action: Fongicide

Composition : 850 g/kg de hydrogénocarbonate de potassium

Formulation : Poudre soluble dans l'eau (SP)

#### **Conseils de prudence :**

**P101** : En cas de consultation d'un médecin, garder à disposition le récipient ou l'étiquette

**P102** : Conserver hors de portée des enfants

**P264** : Se laver soigneusement les mains après manipulation.

**P270** : Ne pas manger, boire ou fumer en manipulant ce produit.

**P280** : Porter des gants de protection et des vêtements de protection

**P501** : Eliminer le contenu/le récipient conformément aux réglementations locales/nationales.

**EUH401** : Respecter les instructions d'utilisation pour éviter les risques pour la santé humaine 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. Eviter la contamination via les systèmes d'évacuation des eaux à partir des cours de ferme ou des routes]

**SPe3** : Pour protéger les organismes aquatiques, respecter une zone non traitée de 5 mètres par rapport aux points d'eau.

Délai de rentrée : Attendre le séchage complet de la zone traitée.

Ce produit peut porter atteinte à la faune auxiliaire. Eviter toute exposition inutile.

Le produit est exempt de Limite Maximale de Résidu

Utilisable en agriculture biologique conformément à la réglementation en vigueur.

Fiche de données de sécurité disponible sur [www.quickfds.com](http://www.quickfds.com)

Distribué par : xxxxxxxxx

Date de fabrication : xx/xx/xxxx

N° de lot : xxxxx

Poids net : Xxx g e

\* Marque déposée de Church & Dwight Co. Inc., USA

**BIEN LIRE L'ETIQUETTE AVANT TOUTE UTILISATION ET RESPECTER LES PRECAUTIONS D'EMPLOI**

## Proposition d'étiquette

Janvier 2022



### MODE D'ACTION

ARMICARB® JARDIN est un fongicide qui permet de lutter contre l'oïdium sur de nombreuses cultures (fruits, légumes, plantes ornementales).

Le mode d'action de l'hydrogénocarbonate de potassium (ou bicarbonate de potassium) est lié à la perturbation du pH, de la pression osmotique et de l'équilibre ion bicarbonate/ion carbonate des champignons sensibles. Il agit par contact et inhibe le développement des hyphes mycéliens et des spores (action préventive et curative). Son mode d'action multi sites rend les risques d'apparition de résistance peu probables.

### TABEAU DES USAGES AUTORISÉS :

Cultures	Cible	Dose maximum d'emploi	Nombre maximum d'applications	Stade d'application / conditions d'emploi	Délais avant récolte (DAR)	Zone non traitée aquatique (mètres)	Zone Traitée / arthropodes non cibles (mètres)	Intervalle entre les applications
Arbres et Arbustes (également autorisé sous abri)	Oïdium	5 kg/ha	6 / an	BBCH10 à BBCH89	-	5	5	7 jours
Cultures florales et plantes vertes (également autorisé sous abri)	Oïdium	3 kg/ha	6 / an	BBCH10 à BBCH89	-	5	5	7 jours
Rosier (également autorisé sous abri)	Oïdium	5 kg/ha	6 / an	BBCH41 à BBCH49 pour des applications sur feuilles BBCH51 à BBCH59 pour des applications sur bouton floral	-	5	5	7 jours
Cassissier, Groseillier, myrtilier	Oïdium	5 kg/ha	8 / an	BBCH10 à BBCH87	1 jour	5	5	7 jours
Framboisier, Mûrier	Oïdium	5 kg/ha	8 / an	BBCH10 à BBCH87	1 jour	5	5	7 jours
Fraisier (également autorisé sous abri)	Oïdium	3 kg/ha	8 / an	BBCH10 à BBCH85	1 jour	5	5	7 jours
Concombre, courgette, cornichon et autres cucurbitacées à peau comestible (également autorisé sous abri)	Oïdium	3 kg/ha	8 / an	BBCH 10 à BBCH 89	1 jour	5	5	7 jours
Tomate, Aubergine (également autorisé sous abri)	Oïdium	3 kg/ha	8 / an	BBCH10 à BBCH89	1 jour	5	5	7 jours



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Poivron, piment (également autorisé sous abri)	Oïdium	3 kg/ha	8 / an	BBCH10 à BBCH89	1 jour	5	5	7 jours
Melon, Pastèque, Potiron et autres cucurbitacé es à peau non comestible (également autorisé sous abri)	Oïdium	3 kg/ha	8 / an	BBCH10 à BBCH89	1 jour	5	5	7 jours
Pommier, poirier, nashi, pommette, néflier	Tavelure	5 kg/ha	5 / an	BBCH07 à BBCH89	1 jour	5	5	8 jours
Pêcher, Abricotier, Nectarinier	Moniliose s	5 kg/ha	3 / an	BBCH79 à BBCH89	1 jour	5	5	3 jours
PPAMC (également autorisé sous abri)	Oïdium	3 kg/ha	8 / an	BBCH10 à BBCH89	-	5	5	7 jours
Porte graine. Potagères, PPAMC et florales (également autorisé sous abri)	Oïdium	3 kg/ha	8 / an	BBCH10 à BBCH89	-	5	5	7 jours
Artichaut, Cardon (également autorisé sous abri)	Oïdium	3 kg/ha	8 / an	BBCH10 à BBCH69	1 jour	5	5	7 jours
Vigne	Oïdium	5 kg/ha	8 / an	BBCH12 à BBCH89	1 jour	5	5	7 jours
	Pourriture grise	5 kg/ha	8 / an	BBCH61 à BBCH89	1 jour	5	5	7 jours

### INSTRUCTIONS D'EMPLOI :

#### Recommandations d'emploi

Veillez à bien agiter la préparation après stockage, avant l'utilisation et pendant l'application. Diluer la quantité de poudre nécessaire dans un peu d'eau afin d'obtenir une pâte homogène. Ajouter le complément d'eau pour obtenir la concentration adaptée à la culture à protéger. Pulvériser les plantes. Après une pluie supérieure à 20 mm, il faut refaire une application. Selon les conditions climatiques et les infections, répéter les applications tous les 8-12 jours. Ne pas traiter si la température dépasse 25 °C, notamment sur les légumes, fines herbes, baies et dans les serres. Traiter en matinée ou en soirée lorsque l'hygrométrie est élevée. Bien rincer les produits récoltés avant consommation. Se laver soigneusement les mains après manipulation.

#### Protection de l'environnement :

Ne pas rejeter dans l'évier, les caniveaux ou tout autre point d'eau les fonds de bidons non utilisés.

## Proposition d'étiquette

Janvier 2022



### **ELIMINATION DU PRODUIT ET DE SON EMBALLAGE :**

#### **RE-EMPLOI DE L'EMBALLAGE INTERDIT.**

Ne pas jeter les résidus dans les égouts ou les cours d'eau.

Ne pas jeter dans les poubelles ménagères, mais éliminer l'emballage avec ou sans produit en déchetterie ou par un organisme agréé.

### **EQUIPEMENTS DE PROTECTION INDIVIDUELLES**

Pour se protéger, porter des gants lors de l'utilisation du produit ARMICARB® JARDIN.

### **PREMIERS SECOURS**

En cas d'urgence, appeler le 15 ou le centre antipoison le plus proche.

**En cas de contact avec les yeux :** Enlever les lentilles de contact si nécessaire. Rincer immédiatement avec de l'eau claire avec une faible pression et si possible tiède, en soulevant de temps en temps les paupières supérieures.

**En cas de contact avec la peau :** Enlever les vêtements contaminés. Laver les parties exposées à l'eau.

**En cas d'inhalation :** Emmener la personne à l'air libre loin de la source d'exposition. Adapter le traitement aux symptômes.

**En cas d'ingestion :** Ne pas faire vomir après ingestion. Si la personne est consciente, donner à boire. Ne jamais rien donner à ingérer à une personne inconsciente.

### **STOCKAGE :**

Conserver le produit dans son emballage d'origine. Stocker dans un endroit frais et sec. Stocker à l'abri du gel et de la chaleur. Ce produit est très hygroscopique : une prise en masse est un phénomène naturel qui n'affecte en rien ses performances.

Conserver hors de la portée des enfants. Conserver à l'écart des aliments et boissons, y compris ceux pour animaux.

### **IMPORTANT**

Respecter les usages, doses, conditions et précautions d'emploi mentionnées sur l'emballage. Elles ont été déterminées en fonction des caractéristiques du produit et des applications pour lesquelles il est préconisé.

Conduisez sur ces bases, la culture et les traitements selon la bonne pratique phytopharmaceutique en tenant compte, sous votre responsabilité, de tous les facteurs particuliers concernant la zone traitée tels que notamment la nature du sol, les conditions météorologiques, les méthodes culturales, les variétés végétales, la résistance des espèces...

Le fabricant garantit la qualité de ses produits vendus dans leur emballage d'origine ainsi que leur conformité à l'autorisation de mise sur le marché.