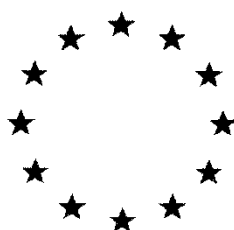


European Commission



**Draft Renewal Assessment Report prepared according to the Commission
Regulation (EU) N° 1107/2009**

Blood meal

Volume 3 – B.7 (AS)

Rapporteur Member State : Austria
Co-Rapporteur Member State : Lithuania

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B.7. RESIDUE DATA

Blood meal was included in the Annex I of Directive 91/414 under Inclusion Directive 2008/127/EC RMS for assessment of blood meal was Belgium. The Regulation (EU) No 1107/2009 repealed and replaced the Directive 91/414/EEC and the active substance blood meal is deemed to be approved under that Regulation and included in the Annex to Regulation (EC) No 540/2011 amended by Commission Implementing Regulation (EU) No 369/2012 and Commission Implementing Regulation (EU) 2017/195.

Blood meal was included in Annex I under provision as use in game repellent. The SANCO report for blood meal (SANCO/2604/08 - rev 1-4 dated 11th July 2014) and Peer review document EFSA 2011 (EFSA Journal 2011;9(10):2394) are considered to provide the relevant information for the re-registration of blood meal. The formulated product Certosan contains 99.8 % blood meal and is therefore identical with the active ingredient. Data obtained with the product can therefore be used also for the active substance blood meal.

Blood meal is dried blood; it is of food grade quality and is collected in authorised slaughterhouses. It has been heat-treated to destroy microorganism contamination. The blood conforms to Commission Regulation (EU) No 142/2011¹⁵, implementing Regulation (EC) No 1069/2009 laying down health rules as regards animal by-products and derived products not intended for human consumption.

The product made of blood meal is a game repellent and will be used as protection coating on the outer surface of deciduous and coniferous trees in forestry, agricultural plants and ornamentals in garden. The product will be applied by brushing, spraying or dipping the target plants only and dries off to a water insoluble coat and is intended for an all-season application. The products with the trade names Certosan / Certosol are registered in different European countries and the products are used since several decades with good success against game browsing from different deer species, hare and rabbit as well as against mice.

Full details of the representative uses can be found in the table below.

The use in orchards is the only use that is of possible relevance concerning consumer and livestock exposure to blood meal residues. To avoid potential risks to consumers, the use of blood meal of food grade quality in accordance with current EU legislation for animal by-products, as well as evidence that there will be no growth of human pathogens in the product when used.

B.7.1. STORAGE STABILITY OF RESIDUES

No data on storage stability for blood meal was submitted nor considered necessary.

B.7.2. METABOLISM, DISTRIBUTION AND EXPRESSION OF RESIDUES

The Reference product is applied in forestry and on ornamental plants, but also on fruit trees by coating with brush, spraying or dipping of individual plants (at plantation). Crops destined for human and animal consumption are not intended to receive direct treatment.

Exposure of the fruit is possible but is considered as negligible. However, to avoid any potential risks for the food chain, the use in orchards strictly requires the use of blood meal of food grade quality in accordance with current EU legislation, and evidence that there will be no growth of human pathogens in the product when used

B.7.3. MAGNITUDE OF RESIDUE TRIALS IN PLANTS

Crops destined for human and animal consumption are not intended to receive direct treatment.

As for the use in orchards, the GAP would usually permit a treatment of the entire plant in any season. As a consequence residues of blood meal on fruits cannot be excluded. To avoid potential risks for consumer and livestock, the use in orchards strictly requires the use of blood meal of food grade quality in accordance with current EU legislation for animal by-products, as well as evidence that there will be no growth of human pathogens in the product when used.

Studies on the magnitude of residues of blood meal which may be due to its use as a pesticide are not considered to be relevant.

The intended uses are summarised in the following table.

Intended uses supported in the EU for which data have been provided

1	2	3	4	5	6	7	8	9	10	11	12	13
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 / Kind	Timing / Growth stage of crop & season	Max. number (min. interval between applications) a) per use b) per crop/ season	kg product / ha a) max. rate per appl. b) max. total rate per crop/season	kg a.s. / ha a) max. rate per appl. b) max. total rate per crop/season	Water L/ha min / max		
1	Central North	Deciduous and coniferous trees in forestry	F	Game repellent	Coating with brush, Spraying or dipping individual plants, entire plants	all season	a) 1 b) 1	a) 19.8 b) 19.8	a) 19.8 b) 19.8	80- 400	--	--
2	Central North	Trees in orchards	F	Game repellent	Coating with brush, Spraying or dipping individual plants, entire plants	all season	a) 1 b) 1	a) 19.8 b) 19.8	a) 19.8 b) 19.8	80- 400	--	--
3	Central North	Ornamental plants	F	Game repellent	Coating with brush, Spraying or dipping individual plants, entire plants	all season	a) 1 b) 1	a) 19.8 b) 19.8	a) 19.8 b) 19.8	80- 400	--	--
4	North	Deciduous and coniferous trees in forestry Agriculture and garden	F	Game repellent	Coating with brush or dipping individual plants; entire plants	all season	a) 1 b) 1	a) 20 b) 20	a) 19.96 b) 19.96	5-15	--	--

1	2	3	4	5	6	7	8	9	10	11	12	13
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 / Kind	Timing / Growth stage of crop & season	Max. number (min. interval between applications) a) per use b) per crop/ season	kg product / ha a) max. rate per appl. b) max. total rate per crop/season	kg a.s. / ha a) max. rate per appl. b) max. total rate per crop/season	Water L/ha min / max		
5	North	Deciduous and coniferous trees in forestry Agriculture and garden	F	Mice	Coating with brush or dipping individual plants; entire plants	all season	a) 1 b) 1	a) 20 b) 20	a) 19.96 b) 19.96	5-15	--	--
6	North	Deciduous and coniferous trees in forestry Agriculture and garden	F	Mice	Spraying individual plants; entire plants	all season	a) 1 b) 1	a) 20 b) 20	a) 19.96 b) 19.96	5-15	--	--

B.7.4. FEEDING STUDIES

Studies are not considered necessary, since blood meal is of food grade quality and is mainly used in forestry and ornamental plants.

B.7.5. EFFECTS OF PROCESSING

Studies on the effect of processing are not considered necessary

B.7.6. RESIDUES IN SUCCEEDING OR ROTATIONAL CROPS

Studies are not considered necessary, since blood meal is intended to be used on orchards (permanent crops).

B.7.7. OTHER STUDIES

No additional studies were submitted.

B.7.7.1. Effect on the residue level in pollen and bee products

Due to the application regime and the nature of blood meal no relevant residues of blood meal are expected in honey and bee products.

B.7.8. REFERENCES RELIED ON

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