

OPINION

Of Institute of Horticulture in Skierniewice

On usefulness of mineral agent improving soil properties under the name of “*Eco-plon volcanic minerals*” in fruit plants cultivation

The opinion done to order of manufacturer of the agent improving soil properties under the name of “Eco-plon volcanic minerals”, i.e. AINEG-POL, Trade and Service Company Genowefa Laskowska, Wawrzonkowo 21A, 87-620 Kikół. The basis for the opinion were the documentation provided by above-mentioned manufacturer: (1) Manufacturer’s declaration, (2) description of production technology, (3) Research Laboratory of New Chemical Synthesis Institute in Puławy report on physico-chemical properties of the agent, (4) Chemical Analysis Laboratory of Institute of Horticulture in Skierniewice report on content of available forms of the components of the agent, and (5) New Chemical Synthesis Institute in Puławy opinion on fulfilling the quality requirements and compliance with national regulations on mineral agents supporting plant cultivation.

1. Commercial name of the agent: “*Eco-plon volcanic minerals*”

Type of agent: mineral

Form of the agent: solid, powdery

2. Brief production technology

Mineral agent improving soil properties under the name “*Eco-plon volcanic minerals*” is manufactured by crushing and grinding volcanic rocks. Afterwards, the agent is sieved through sieves and bagged to bags of varying capacity.

3. Evaluation of the usefulness of the agent to use for its intended purpose

Pursuant to § 4 paragraph 4, point 1 Regulation of the Minister of Agriculture and Rural Development of 18th June, 2008, on implementation of certain provisions of the Law relating to the fertilizers (Dz. U. No. 119, pos. 765 as amended) agricultural tests of mineral agent improving

soil properties under the name "*Eco-plon volcanic minerals*" has been waived, since the manufacturer's declaration, description of production technology and conducted physico-chemical tests (Research Laboratory of New Chemical Synthesis Institute in Puławy test report on physico-chemical properties of the agent no. 103/2016/Inne of 06.02.2017) and Chemical Analysis Laboratory of Institute of Horticulture in Skierniewice report on content of availability of the components of the agent, no. 17/LAC/2016 of 04.10.2016) indicates, that the agent improving soil properties under the name of "*Eco-plon volcanic minerals*" does not contain any substances not unknown or not being used in agriculture. The agent contains significant amounts of available nitrogen (57 mg dm³), phosphorus (74 mg dm³), potassium (86 mg dm³), magnesium (440 mg dm³) and calcium (5040 mg dm³) (Chemical Analysis Laboratory of Institute of Horticulture in Skierniewice report, no. 17/LAC/2016, of 04.10.2016), which guarantees improvement of physico-chemical soil properties as well as supplying macroelements necessary for plants.

On the basis of the above, it is concluded that the mineral agent improving soil properties under the name of "*Eco-plon volcanic minerals*" is useful in fruit plants cultivation, especially on light soils, with low buffering capacity in relation to nutrients.

4. Information on the effects of properly applied agent on human and animal health and on the environment.

The content of mineral pollution (arsenic, cadmium, lead and mercury), in the agent being subject of the opinion, is below its maximum permissible content (Research Laboratory of New Chemical Synthesis Institute in Puławy opinion on fulfilling the quality requirements of the agent under the name "*Eco-plon volcanic minerals*" and compliance with national regulations on mineral agents supporting plant cultivation of 07.02.2017, based on the New Chemical Synthesis Institute Research Laboratory in Puławy test results, no. 103/2016/Inne of 06.02.2017).

Given the above, it is concluded that the mineral agent improving soil properties under the name "*Eco-plon volcanic minerals*", properly applied, does not have a harmful effect on human and animal health and on the environment.

5. Information on compatibility of the agent for use with other plant protection products

The agent improving soil properties under the name of "*Eco-plon volcanic minerals*" is not intended to be used together with other plant protection products.

6. Accepted project of instruction for use (attached)

I approve and do not bring any comments on the instruction for use of mineral agent improving soil properties under the name of “*Eco-plon volcanic minerals*” in fruit plants cultivation.

WARNING: *Samples for the gent's physico-chemical properties testing in Research Laboratory of New Chemical Synthesis Institute in Puławy and Chemical Analysis Laboratory of Institute of Horticulture in Skierniewice have been delivered by sample collector from Local Chemical-Agricultural Station in Gliwice.*

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