



VERMAKTIV STIMUL

SUPPLEMENTARY PLANT PREPARATION / POMOCNÝ ROSTLINNÝ PŘÍPRAVEK (OFFICIAL TERM)



VERMAKTIV RENEWS NATURE

What is VERMAKTIV STIMUL

Vermaktiv Stimul is a non-toxic, completely harmless product without negative effects on nature, the human population, plants, and all flora and fauna living in any habitat.

Vermaktiv Stimul is made from natural materials that enhance the nutrition and growth of plant tissue causing root growth, improve rooting, and vegetation development of all plants.



What is VERMAKTIV STIMUL

Vermaktiv Stimul is an organomineral stimulant that is absorbed by plant tissue and root system. It is a fractionated, specially treated animal and plant extract containing organically bound phosphorus and nitrogen. In addition to these elements, several groups of amino acids, enzymes, hormones, and other natural biostimulatory agents are included. Because only pure natural materials are used, there is no accumulation of harmful substances. The plants or fruits are edible immediately after treatment.

As the plant tissue absorbs Vermaktiv Stimul, the effect is very rapid and minimal concentrate doses are needed. Two hours after application, it is no

longer possible to wash the applied product from the plants. Excess of the product, which soaks to the root ball, increases the amount of soil bacteria, prevents the formation of mold and

improves the assimilation properties of the root system. This ensures better nutrient absorption and higher plant resistance.



For Every Crop

For over 20 years, we have developed Vermaktiv to be effective for a wide range of crops.

- Grains
- Corn
- Potatoes
- Hops
- Apples
- Peaches
- Apricots
- Wine

etc.



Vermaktiv Stimul

- Promotes faster seedling growth and a faster green area growth of up to 36% for all plants
- Increases the humus layer of soil by up to 50% in 2-3 years
- Revitalizes over-fertilized soil
- Desalinates the soil
- Does not exhaust land





VERMAKTIV STIMUL AGRICULTURE

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VERMAKTIV RENEWS NATURE

Application: Corn

In 2011, Vermaktiv Stimul was applied to maize of the Amoroso variety in a total area of 82 ha in a 1: 250 dilution ratio with the agricultural cooperative Podlipan Vítice, of which 60 ha was left as a control without application. The application was carried out on 22 ha. Throughout the trial, the vegetation in the applied area had a visible difference in the growth of green matter (height of vegetation, deeper coloration and width of the stem) compared to the control. The vegetation stage of flowering was 3 – 4 days earlier and subsequent earlier formation of the ear compared to the control.

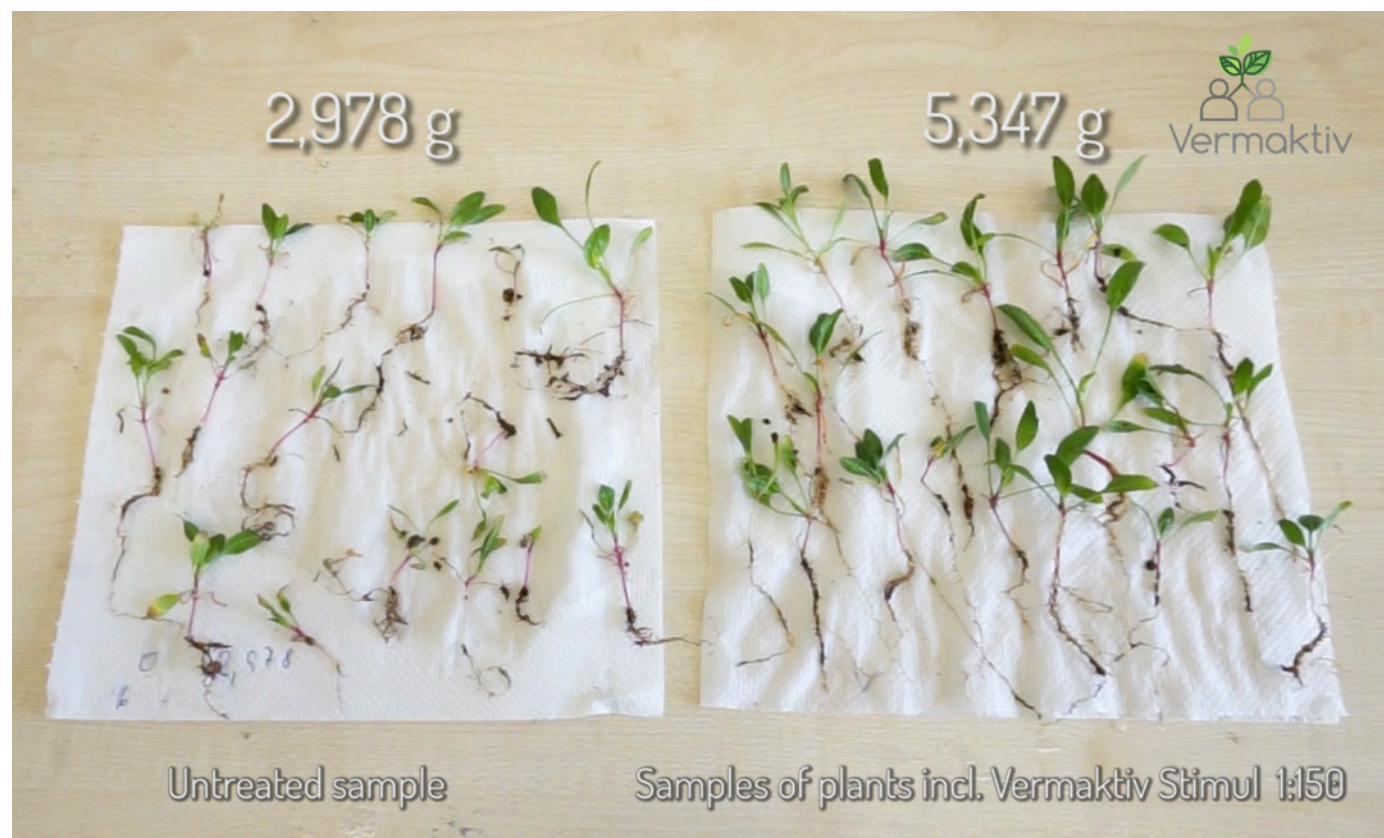


At a time when the cob size reached 40% of the final size (BBCH 74), a dry matter collection was performed. Treated plants showed a 32% higher dry matter content compared to the untreated control.

The yield was 28% higher in the treated areas compared to the untreated control. The harvested maize grain from the treated area had 10% less moisture than the untreated control grain.

Spinach Report

In November 2019, an expert study was conducted on the influence of Vermaktiv Stimul on spinach. At the Crop Research Institute, we achieved almost twice the total biomass weight compared to the untreated area within 30 days. Research led by Ing. Roman Honzík - video available on www.vermaktiv.cz/spinach_report_EN





VERMAKTIV STIMUL

FRUIT AND VEGETABLES

SUPPLEMENTARY PLANT PREPARATION / POMOCNÝ ROSTLINNÝ PŘÍPRAVEK (OFFICIAL TERM)



VERMAKTIV RENEWS NATURE

Results

The official report of the Podlipan
Vitice Agricultural Cooperative

On April 10, 2008, after pruning, Vermaktiv Stimul was applied to the local Golden Delicious apple orchard named Patera (83 ha) in the ratio of 1: 1000. During the 8-day follow-up, active callus formation and increased dormant activity (untreated control) were found.

On May 8, 2008, the following was found in the control of the sample: There was a significant increase in young shoots and flower calyx and earlier flowering compared to the control.

On August 8, 2008, at the time of differentiation of flower buds, Vermaktiv Stimul was applied in a ratio of (1: 500) and

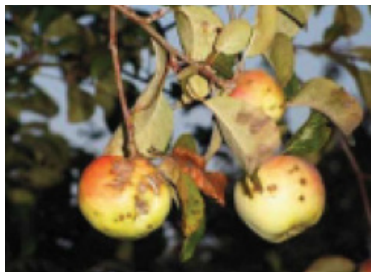
(1: 1000). In addition, the above sample on April 22, 2009 found an increase in the number of flower buds by 40% and 15%, respectively, compared to the control. In the harvest, we noted a 15% increase in yield with an emphasis on an increased proportion

of quality fruit by 50%, against the control. ZD Podlipan Vitice states that the declared efficacy of Vermaktiv Stimul has been verified. The product will continue to be used by ZD Podlipan and extend its use to other areas and other crops.



Results

These apple trees grew in a contagious area (scab - shown below) but were not infected. The protection of trees and fruits is the result of an autoimmune reaction induced by Vermaktiv Stimul, which increases the immune response throughout the plant system allowing the plant to overcome the infection.



A common crop from the same orchard.



"Rosana"



"Melodie"



"Rubinola"



"Florina"

APPLICATIONS FOR FRUIT TREES - SPRING 2008

Applied after the pruning process



April 24, 2008

Without an application of the VERMAKTIV Stimul.



April 24, 2008

Tested in the laboratory of the Charles University in Prague
Faculty of Science, Department of Organic Chemistry
Laboratory of Plant Biotechnology, and Agricultural
Cooperative „Podlipan“ Vitice

Applied after the pruning process



April 25, 2008

Without an application of the VERMAKTIV Stimul.



April 25, 2008

Two hours after application, the product cannot be washed off the plants for it has already been absorbed. The surplus of the product, which soaks into the root ball, increases the number of soil bacteria, prevents the growth of blights, and improves assimilation properties of the root system. Thus, it ensures better absorption of nutrients and improved plant resistance.

It increases yield, resistance to pests and diseases, quality of fruits, emergence and germination of plants, and the overall health condition of the plants.

Tested in the laboratory of the Charles University in Prague
Faculty of Science, Department of Organic Chemistry
Laboratory of Plant Biotechnology, and Agricultural
Cooperative „Podlipan“ Vitice

Differentiation in Orchards

The process by which the plant eliminates compromised fruit and focuses on the development of quality fruit activated by Vermaktiv Stimul.

Between part of the tree and the stem is a cork-like plant mesh. In the under-developed and compromised fruits, this mesh is thinner. Vermaktiv will weaken this mesh resulting in the spontaneous dropping of the compromised fruit to the ground. In apple trees, differentiation is performed 6-10 days after flowering. In the following growth cycle, Vermaktiv assists the tree in nourishing only healthy and viable fruit, increasing the yield and number of viable fruits in the harvest.



Results Vermaktiv Stimul and the Root System

The tests were performed at the Budkov nursery in the Czech Republic, where the conditions for a detailed analysis of the tree root were ideal. **Although the tests were performed on coniferous trees, the results also apply to fruit trees.**

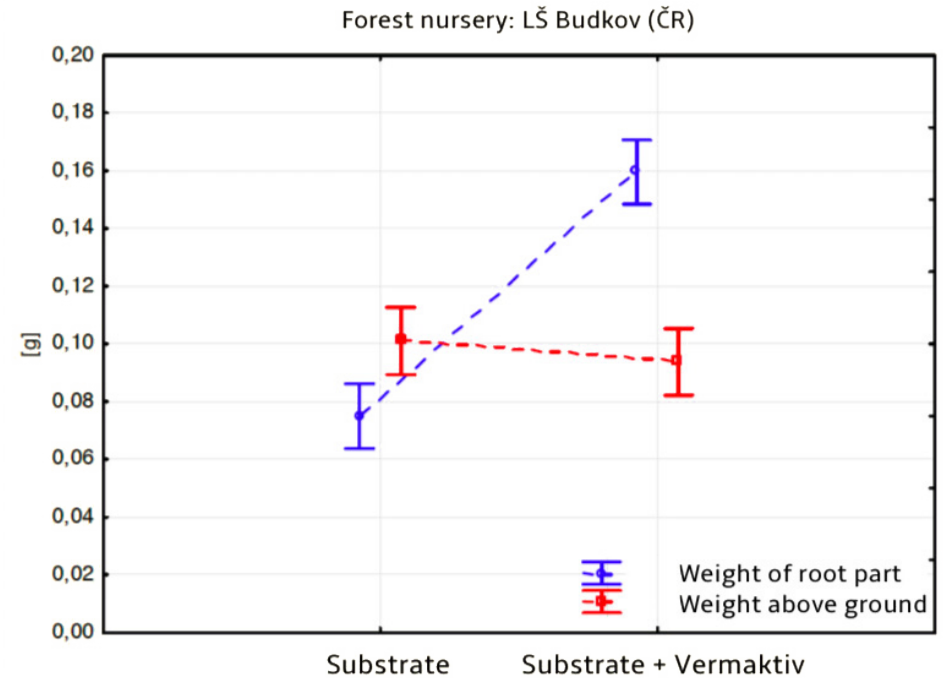
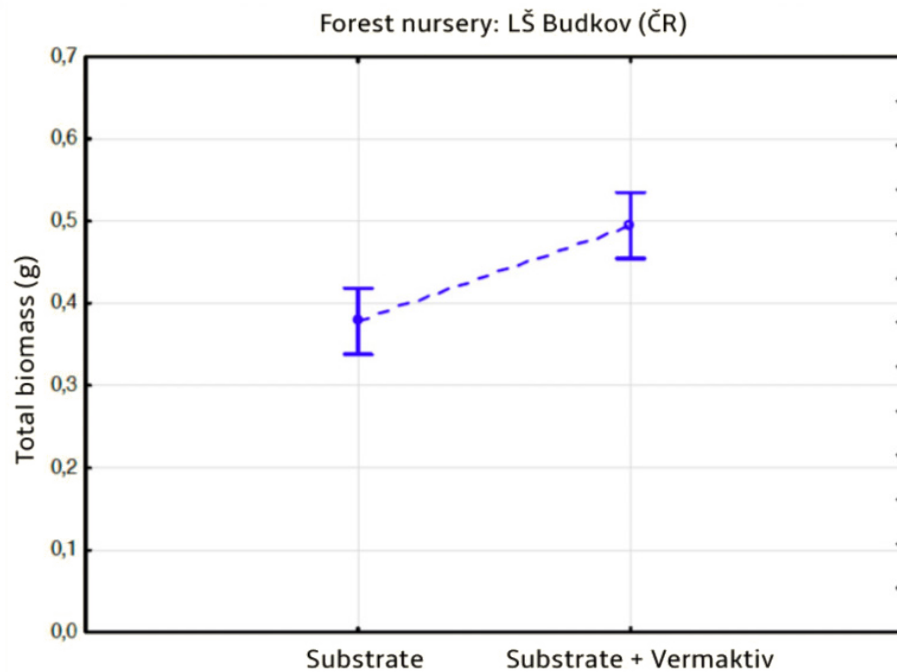
Increasing the root system has a positive effect on the plant's absorption of nutrients from the soil. This strengthens the tree's defenses and resistance to adverse conditions such as dry seasons, drought, etc.



Vermaktiv 1:50

Vermaktiv 1:100

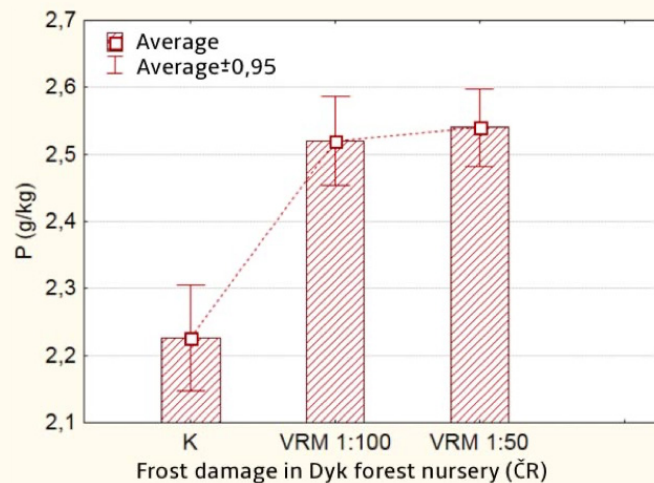
Without treatment



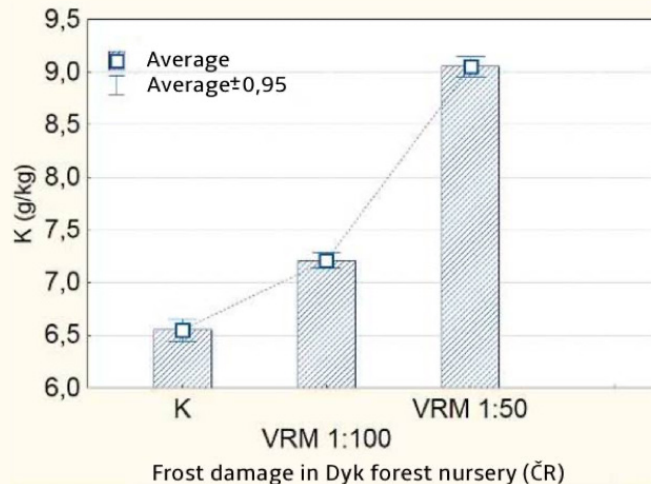
Total biomass of seedlings in the Budkov foliage

Application to Forest Nursery

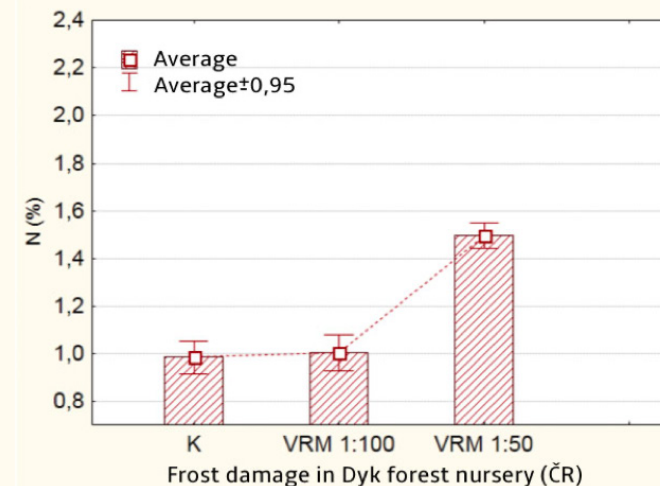
The effect is improved nutrient uptake available from the substrate.



Effect of Vermaktiv on P concentration in Norway spruce needles, full in Dyk's nursery.



Effect of Vermaktiv on K concentration in Norway spruce needles, full in Dyk's nursery.



Effect of Vermaktiv on N concentration in Norway spruce needles, full in Dyk's nursery.

Application to Forest Nursery

The effect is improved nutrient uptake available from the substrate.

Let Nature Grow

Application is to the shoot system
the plant above ground.

As a result, it passes through every fiber of
the plant.

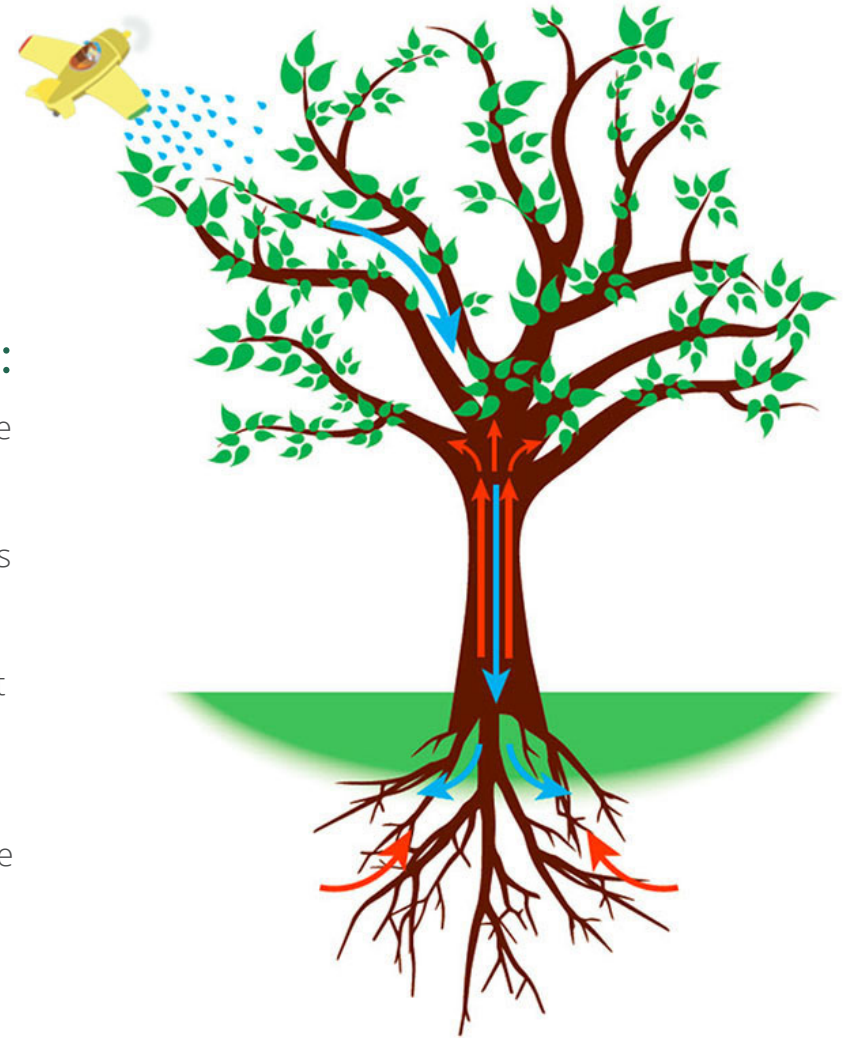
It leaves a functional imprint in each
section.

Vermaktiv Stimul reaches the
underground area where it acts on the
rhizosphere.

It returns nutrients to the soil and affects
the immediate surroundings.

With this process:

- Can stimulate regenerative plant processes
- Helps metabolic processes
- Increases the size of the underground section, root system
- Supports growth and metabolic processes of the surrounding area





Results



"The yield of corn was 28% higher in treated areas. Harvested grain from the treated area had 10% less moisture than grain on untreated control."

**ZD Podlipan Vitice, division Corn,
Czech Republic**



"Compared to the control the peppers increased by 11.7 g, 3.9 mm increased the defensive thickness of sprayed amino acid foliar fertilizer, and body weight increased by 10.1 g."

**Beijing Biore Biotechnology Co, Ltd,
China**



"In the harvest, we noted an increase in yield of 15%, with an emphasis on an increased proportion of high-quality fruit by 50%."

**ZD Podlipan Vitice, division
Orchards, Czech Republic**



Package Options

Package

5 / 10 l



Package

50 / 100 l



Package

1000 l



Safety Sheet Original



ÚSTŘEDNÍ KONTROLNÍ A ZKUŠEBNÍ ÚSTAV ZEMĚDĚLSKÝ

ENZYMIX s.r.o.
Lucie Petružálková
Frindova 612/24
40746 Krásná Lípa

Sp. zn.: 8651

Č.j.: UKZUZ 113821/2016

V Praze, dne: 17.10.2016

Vyřizuje: Ing. Jana Meltská

Tel.: +420 257 294 217

e-mail: jana.meltska@ukzuz.cz

Rozhodnutí o prodloužení platnosti rozhodnutí o registraci pomocné látky

podle zákona č. 156/1998 Sb., o hnojivech, pomocných půdních látkách, pomocných rostlinných přípravcích a substrátech a o agronomickém zkoušení zemědělských půd (zákon o hnojivech), ve znění pozdějších předpisů.

Název pomocné látky: VERMAKTIV Stimul, pomocný rostlinný přípravek

Číslo rozhodnutí o registraci: 2983

Žadatel: ENZYMIX s.r.o., Frindova 612/24, 40746 Krásná Lípa, IČ: 27186199

Výrobce: ENZYMIX s.r.o., Frindova 612/24, 40746 Krásná Lípa, IČ: 27186199

Datum vydání rozhodnutí: 17.10.2016

Ústřední kontrolní a zkušební ústav zemědělský

jako věcně příslušný orgán ve smyslu § 2 odst. 1 písm. e) zákona č. 147/2002 Sb. O Ústředním kontrolním a zkušebním ústavu zemědělském a o změně některých souvisejících zákonů (zákon o Ústředním kontrolním a zkušebním ústavu zemědělském), ve znění pozdějších předpisů, podle § 5 odst. 3 zákona č. 156/1998 Sb., o hnojivech, ve znění původních předpisů na žádost původního žadatele

prodlužuje registraci této pomocné látky

provedenou rozhodnutím ÚKZÚZ č.j. 5699-3/ORH/UKZUZ/2012 ze dne 13.12.2012
podle ustanovení §5 odst. 1 první věty zákona č. 156/1998 Sb., o hnojivech, ve znění pozdějších předpisů

Platnost rozhodnutí je omezena do: 31.12.2020

Hodnoty chemických a fyzikálních vlastností pomocné látky, rozsah a způsob použití, omezení při uvádění do oběhu a při užívání, způsob balení a varovná označení jsou uvedeny v etiketě, která je jakožto příloha nedílnou součástí tohoto rozhodnutí.

Podle §3 odst. 1. písm. a) zákona č. 156/1998 Sb., o hnojivech, ve znění pozdějších předpisů, tato pomocná látka smí být uváděna do oběhu.

Odůvodnění rozhodnutí:

Prodloužení platnosti rozhodnutí o registraci pomocné látky bylo provedeno podle § 5 zákona č. 156/1998 Sb., o hnojivech, ve znění pozdějších předpisů. Pomocná látka po dobu platnosti rozhodnutí o registraci vyhovovala vlastnostmi rozhodnými pro registraci podmínkám registrace pomocné látky a splnila tak ustanovení § 5 odstavce 1 zákona o hnojivech.

Žadatel je povinen zajistit, aby na tuzemský trh byla dodávána pomocná látka trvale odpovídající podmínkám registrace.

Platnost rozhodnutí je omezena z důvodu předpokládané revize limitů rizikových prvků.

POUČENÍ O ODVOLÁNÍ

Proti tomuto rozhodnutí se lze odvolat do patnácti dnů ode dne jeho oznámení k Ministerstvu zemědělství ČR podáním učiněným u ÚKZÚZ. Odvolání nemá odkladný účinek (§76 odst. 5 druhá věta ve správním řádu).

Otisk úředního razítka

.....
Ing. Miroslav Florián, Ph.D.
ředitel Sekce zemědělských vstupů

Safety Sheet Translation

Czech Republic
Central Institute for Supervising and Testing in Agriculture
 Official Control Section
 Department of Fertilizers and Soil
 Audit of Input Safety and Fertilizer Registration
 Hroznová 2, 656 06 Brno

Ref. Number: 8651

Attn.: ing. Jana Meitská

Issued: 113821/2016

Decision regarding registration of an auxiliary substance

2 9 8 3

pursuant to Act 156/1998 Coll., on fertilizers, auxiliary soil substances, auxiliary plant preparations and substrates and on the testing of soil in agriculture (Act on Fertilizers), as amended by later regulations

Name of auxiliary substance:

VERMAKTIV STIMUL, auxiliary plant product

Applicant:

ENZYMIX s.r.o., Frindova 612/24, 40746 Krásná Lída

Applicant's ID No.:

27186199

Manufacturer:

ENZYMIX s.r.o., Frindova 612/24, 40746 Krásná Lída

Manufacturer's ID No.:

27186199

Prague, on (date of issue):

17.10. 2016

Central Institute for Supervising and Testing in Agriculture

as the competent authority according to Section 2 Paragraph 1 Letter e) of Act 147/2002 Coll. on the Central Institute for Supervising and Testing in Agriculture and on the amendment of some pertinent acts (Act on Central Institute for Supervising and Testing in Agriculture), as amended by subsequent regulations.

Lengthen registers the above auxiliary substance

pursuant to the provisions of Section 5 Paragraph 1 of Act 156/1998 Coll., on fertilizers, as amended by subsequent regulations

The decision expires on:

31. December 2020

The values of the chemical and physical properties of the auxiliary substance, scope and method of its use, restrictions regarding its distribution and use, packaging and warning signs are stated on the label which makes an integral part of this decision.

Pursuant to the provisions of Section 3 Paragraph 1 Letter a) of Act 156/1998 Coll., on fertilizers, as amended by subsequent regulations, this substance has been approved for distribution.

Substantiation of the decision:

The auxiliary substance was registered according to Section 4 of Act 156/1998 Coll., on fertilizers, as amended by subsequent regulations. It ensues from the final report issued on 17 March 2008 that the auxiliary substance, considering its properties decisive for registration, meets the registration conditions from 13 March 2008 and is in compliance with Section 5 Paragraph 1 of the Fertilizers Act.

Validity of the decision is limited due to the expected revision of the limits of hazardous elements.

ADVICE ON APPEAL

An appeal may be lodged against this decision within 15 days of the notification thereof at the Department of Agriculture of the Czech Republic to be filed at the Central Institute for Supervising and Testing in Agriculture.

signature illegible

Ing. Miroslav Florián Ph.D.

Director of the Official Control Section

seal:

CZECH REPUBLIC

CENTRAL INSTITUTE FOR SUPERVISING AND TESTING IN AGRICULTURE, BRNO

-30-



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