

# Agro-Chemie Kft. Budapest



Tradition and reliability

# YOUNG COMPANY WITH DECADES OF EXPERIENCE

**A**gro-Chemie Kft. was established in 2007, as the professional successor of the pesticide division of CHINOIN, which had more than one hundred years experience in the production of chemico-pharmacological and agrochemical products.

The company intends to continue the activities related to pesticides: the production, formulation and distribution of plant protection products and for this purpose, intends to use all the rights, registrations, trademarks, patents and know-how.

Agro-Chemie Kft. is involved in the production of active ingredients, intermediate products and ready-made products from in-house development for their further use in plant protection, health protection and also for sales around the world.

Our products serve sustainable development and our intention is to reach sustainability and biodiversity in the future too.

Our company's production culture is based on high level innovation technology, special techniques of production and manufacturing process, guaranteeing the best quality. Preparations and their chemical manufacturing technologies are protected by patents, thus the firm can sell active substances and finished products – which meet the highest requirements – in the international market.

We will do our best to continue existing partnerships and cooperation, and to establish new ones in the spirit of mutual benefits.

We are glad to fulfill your orders and we will do everything in order to meet your expectations; cooperative partners also can count on us.



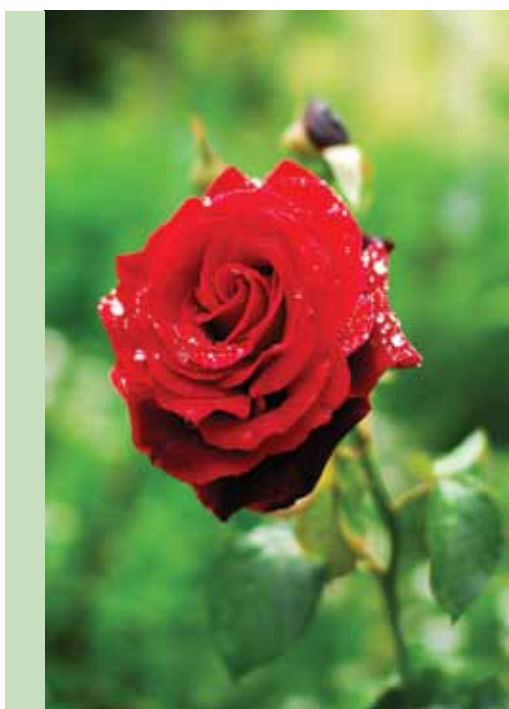
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# FLUMITE 200

## BROAD-SPECTRUM SPECIAL MITICIDE, ACARICIDE



### Active ingredient:

200 G/L DIFLOVIDAZIN

### Applications in crops:

Apple, pear, grape, peach, plum, strawberry, currant, raspberry, mulberry, gooseberry, cucumber, deciduous and evergreen ornamental trees

### APPLICATION IN GARDEN:

The Flumite 200 is a special miticide which may be safely and effectively used in gardens. For 10 liters of spray mixture apply 1 ampoule (5 ml) of Flumite.

The diflovidazin is an own developed **original** acaricide of Agro-Chemie Kft. After the successful domestic introduction the diflovidazin is being launched on the international market.

| CROPS          | PEST  | RATE  |
|----------------|---|---|
| Apple          | Fruit-tree red spider mite,<br>Two speckled red spider mite<br>Leaf-mite of pomes                   | 0,4-0,5 l/ha spray to kill the winter eggs, spring treatment to inhibit the mites proliferating, and killing the summer eggs  |
| Grapes         | Leaf-mites of grapes, fruit-tree red spider mite,<br>grapes rust-mite, two speckled red spider mite | 0,4-0,5 l/ha<br>- early „after sprouting” treatment against the mites, which overwinters in the sprout<br>- summer treatment to inhibit the proliferating of mite populations which content different kind of mites<br>- summer-end treatment against the overwintering red spider mites, and inhibit the formation and laying of winter eggs of spider mites |
| Peach and plum | Leaf-mites of stone-fruits, two speckled red spider mites, fruit-tree red spider mites              | 0,4-0,5 l/ha<br>If the weather is favorable, one treatment should be effective against the proliferating of mites   |
| Cotton         | Two spotted spider mite   | 0,2- 0,3 l/ha<br>Summer treatment of plant for 1-2 times  |

### EFFICACY

Ovicidal miticide is a specific miticide, which acts primarily as an ovicide but has an effect on young motile stages.

Uses for control of phytophagous mites, including Pannonychus, Tetranychus, Eriophies, Auculus, Vasates and Calipitimerus in pome and stone fruits, grape, cotton and vegetables at 60-100 ai g/ha. It is a favorite miticide for IPM (Integrated Pest Management) in fruits, grape and vegetables.

### TOXICITY:

Acut oral LD50 for rats 2,000 mg/kg

Acut percutaneous LD50 for rats > 2,000 mg/kg

Eye irritation index on rabbits 15,  
skin irritation index on rabbits 0, no skin sensitivity on guinea pigs.

LC50 > 5,000 mg/m<sup>3</sup>

Non toxic for bees. Non toxic for fish.





# FOZAT 480

## BROAD-SPECTRUM NON-SELECTIVE TOTAL HERBICIDE

### Active Ingredient

480 g/l GLIFOSATE IPA SALT

### Applications in crops:

Field crops, grapes and fruits (older than 3 years) corn, rape, peas on stubbles and in gardens and on non-agricultural areas. It is good against ambrosia (ragweeds)

### NON AGRICULTURAL AREAS:

Air spraying permitted exclusively in maize and sunflower crops only when the territory is not less than 10 ha., with anti drifting adjuvants. Tank mixture rate is 50-60 l/ha.

### TOXICITY:

Acut oral LD50 on rats 4,900 mg/kg

### SAFETY:

No fire and explosion hazard

### EFFICACY

Proposed technology of plant protection

Field crops application recommended in soils with organic content not less than 3% before or after seeding but not later than the beginning of germination at a rate 2,0-6,0 l/ha in condition that the seeds will be covered with 3 cm thick layer of friable soil. Seedlings should not contact with the preparation. After harvesting the fallow may be treated with 2,0-6,0 l/ha.

Winter wheat treatment before harvest for wiping out the weed exclusively with agricultural machinery against perennial weeds (agropyron repens, reed grass, convolvulus etc.) at spray rate 4,0-6,0 l/ha 10-14 day before the winter wheat harvest.

For desiccation of crops should be performed at 20%-30% moisture content of sunflowers achenia and 30-40 % of maize grains.

In case of weed free maize or sunflower fields recommended spray at rate 2,0 l/ha, and in case of fields with aggressive weeds 5,0 l/ha. The preparation is recommended in plantations of fruit trees or grapes established at least more than 3 years, application at rate 2,0-6,0 l/ha.

Applications to fruit trees and grapes ideally should be made prior to budbreak in the spring, or in fall after harvest. Spray drift may cause damage to the green parts of plant. Apply shielded spray to protect green bark or stems.

Fozat may be used for pasture improvement before sowing at rate 3,5-5,0 l/ha. In forest plantations of pine, fir, Douglas pine trees apply when at rest; pine needles are covered with protective wax. Proposed rate is 3,0-5,0 l/ha.

Apply when lumbering against clumps of shoots in concentration 3,5 %.

| CROPS   | WEEDS  | DOSAGE (L/HA)   | SPRAY MIX (L/HA) |
|---|--|-----------------|------------------|
| Field crops   | Perennial grasses and broadleaf weeds                              | 4,0-6,0         | 150-250          |
| Winter wheat  | Wheat-grass, convolvulus- bindweed, harvest facilitation from cane | 4,0-6,0         | 150-250          |
| Grapes and fruits (older than 3 years)                          | Annual grasses and broadleaf weeds                                 | 2,0-3,0         | 150-250          |
| Grapes and fruits (older than 3 years)                          | Perennial grasses and broadleaf weeds                              | 4,0-6,0         | 150-250          |
| Meadow and lawn   | Total weed control   | 3,5-5,0         | 250-300          |
| Non agricultural areas (railroads, canals, water trenches)      | Total weed and scrub control                                       | 5,0-6,7         | 250-300          |
| Forestry (more than 2 years old pine, spruce fir, Douglas pine) | Total weed and scrub control                                       | 3,0-5,0         | 250-300          |
| Logging   | Sprout control   | 3,5 % spray mix |                  |





# FUNDAZOL 50 WP

## A BROAD-SPECTRUM SYSTEMIC FUNGICIDE



### Active ingredient:

50% Benomyl (a.i. content: 500g/kg Benomyl)

### Applications in crops:

Autumn and spring corn, Sugar beet, Sunflower, Lucerne, Apple, Pear, Cotton, Rice, Peach, Cherry-Sour Cherry, Apricot, Strawberry-Raspberry, Gooseberry, Fruits, Nursery, Paprika, Root crops, Cucurbits, Carnation, Ornamental Plants, Herbs

| CULTURE                             | DISEASES   | RATE                      |
|-------------------------------------|--|---------------------------|
| Autumn and spring corn              | Erysiphe /Blumeria/ graminis, Fusarium spp., Pseudocercospora            | 0,6-0,8 kg/ha             |
| Sugar beet                          | Cercospora beticola, Erysiphe /Blumeria/ Graminis                        | 0,5-0,6 kg/ha             |
| Sunflower                           | Head rot - Botrytis, Sclerotinia   | 1,0 kg/ha                 |
| Lucerne                             | Pepper spot- Leptosphaerulina trifolii Pseudopeziza                      | 0,4-1,0 kg/ha             |
| Apple                               | Treatment before the harvest for protecting against the storage-diseases | 0,1 % spraying            |
| Apple, Pear                         | Oidium farinosum, Monilia, Venturia inaequalis                           | 0,8-1,6 kg/ha             |
| Cotton                              | Verticillium wilt - to take into the soil of cotton field                | 50-75 kg/ha               |
|                                     | Verticillium and Fuzarium – seed treatment                               | 2 kg/t                    |
|                                     | Verticillium and Fuzarium – spaying                                      | 2-3 kg/ha                 |
| Rice                                | Blast – Piriculariose  | 2,0 kg/ha                 |
| CULTURE                             | DISEASES   | RATE                      |
| Peach                               | Mildew, Monilia, leaf-diseases   | 0,7-1,0 kg/ha             |
| Cherry, Sour cherry                 | Monilia, leaf-diseases   | 0,7-1,0 kg/ha             |
| Apricot                             | Monilia, Gnomonia, Mildew,   | 0,7-1,0 kg/ha             |
| Strawberry, Raspberry               | Grey mold - Botrytis   | 0,8-1,6 kg/ha             |
| Gooseberry                          | Sphaerotheca mors uvae   | 0,8-1,6 kg/ha             |
| Fruits                              | Autumn foliar disinfection   | 0,1 % spraying            |
| Nursery                             | Mildew, foliar diseases  | 0,4-0,6 kg/ha             |
| Paprika                             | Mildew - Leveillula  | 0,4-0,6 kg/ha             |
| Root crops                          | Mildew - Erysiphe, Septoria  | 0,4-0,6 kg/ha             |
| Cucurbits                           | Powdery mildew - Erysiphe  | 0,4-0,7 kg/ha             |
| Carnation                           | Fusarium spp.  | 0,1-0,2 % irrigation      |
| Ornamental plants                   | Mildew, Grey mold - Botrytis   | 0,1-0,2 % spraying liquor |
| Ornamental plants bulbs, and tubers | Botrytis, Fusarium, Penicilium   | 0,2 % seed dressing       |
| Herbs                               | Leaf-diseases  | 0,1 % or 1 kg/ha          |

### EFFICACY

Fundazol 50 WP is a systemic fungicide with curative and protective action. It is effective against a wide range of Ascomycetes, Deuteromycetes and some Basidiomycetes in grapes, fruits, vegetables, mushrooms, ornamental plants, field crops, nurseries, herbs and stored products.

### TOXICITY:

Acut oral LD50 for rats > 16,000 mg/kg

Acut dermal LD50 for rats > 5,000 mg/kg

### SAFETY:

Practically non-toxic

Not dangerous for bees

Moderately dangerous for fish





## KOLFUGO SUPER

■ BROAD-SPECTRUM SYSTEMIC FUNGICIDE FOR SEED TREATMENT



### Active ingredient:

Carbendazim

### Applications in crops:

Cereal, Sugar beet, Sunflower,  
Apple, Grape and Cherry

### EFFICACY

Carbendazim or methyl-2-benzimidazol carbamate is used as a fungicide. It is a systemic fungicide with protective and curative action and absorbed through the roots and green tissues, with translocation acropetally. Acts by inhibiting development of the germ tubes, the formation of aspersoria and the growth of mycelia. Broad disease spectrum activity against the most relevant diseases: mildew, Fusariosis (scab), foot disease, Cercospora, Botrytis, Sclerotinia.

### TOXICITY:

- Practically non-toxic.
- Non toxic for bees.
- Moderately dangerous for fishes.

Fungicide with 200 gramm/kg a.i. highly refined carbendazim, with high adhesive capacity fungicide, formulated as suspo-emulsion.

| SPRAYING      |   |   |
|---------------|---|---|
| CROPS         | PATHOGENS   | APPLICATION AND DOSAGE  |
| Cereal        | Fusarium spp.                                       | 1,5-2,0 l/ha  |
|               | Erysiphe spp.                                       | Combine with preparations on the basis of a.i. mankozeb and Microthiol Special    |
|               | Pseudocercospora spp.                               |   |
| Sugar beet    | Cercospora beticola                                 | 2,0 l/ha combining or rotating with contact fungicides                            |
|               | Erysiphe spp.                                       |   |
| Sunflower     | Diaporthe helianthi                                 | 6-8 leafed fenological phase, and in blooming phase 1-2 spraying at dosage 2 l/ha |
|               | Botrytis cinerea                                    | Combinations: with mankozeb fungicides  |
|               | Sclerotinia sclerotiorum                            |   |
| Apple         | Podosphaera leucotricha                             | 3,0-4,0 l/ha  |
| Grape         | Uncinula necator                                    | 3,0-4,0 l/ha  |
| Cherry        | Monilia spp., Blumeriella spp.                      | 1,5 l/ha  |
| Seed dressing |   |   |
| Cereals       | Fusarium spp., Pseudocercospora spp., Ustilaginales | 1,5-2,0 l/t   |
| Sunflower     | Botrytis spp., Sclerotinia spp., Alternaria spp.    | 2,0 l/t   |

Remark: \* = Vondozeb Plus 1,5-2,0 kg/ton

## KOLFUGO DUPLET

■ A BROAD-SPECTRUM SYSTEMIC SEED-DRESSING FUNGICIDE COMBINATION

### Active Ingredient

200 g/l carbendazim + 170 g/l carboxin

### Applications in crops:

Winter- and spring wheat, winter- and spring Barley, Rye, Oat

### EFFICACY

Duplet is a systemic fungicide combination, used for seed dressing of cereal seeds against many of diseases - e.g. smuts and bunts, eyespot, Fusarium, Septorios and early leaf diseases - Oidium. The preparation is non phytotoxic for young plants, it has no depressive effect in early stadiums. Dosage: 2-2,5 l/t

### TOXICITY:

Acute oral LD50 > 2,000 mg/kg/rats  
Acute dermal LD50 > 2,000 mg/kg/rats.  
No eye irritation on rabbits, no skin irritation on rabbits.



| ATTRIBUTES   | WINTER WHEAT | WINTER AND SPRING BARLEY |
|--|--------------|--------------------------|
| Rate: l/tonna  | 2,0-2,5      | 2,0-2,5                  |
| Mix for seed treatment: l/tonna  | 6-15         | 6-15                     |
| Quality of seed treatment  | Perfect      | perfect                  |
| Resistance against abrasion  | Excellent    | excellent                |
| EFFECT-SPECTRUM, EFFECTIVENESS   |              |                          |
| Fusarium spp. seedling blight  | +++          | +++                      |
| Fusarium nivale/snow-mold  | +++          |                          |
| Tilletia spp./common bunt or stinking smut (T.foetida, T.caries, T.intermedia) | +++          |                          |
| Tilletia contraversa/dwarf bunt  | +++          |                          |
| Ustilago tritici<br>Loose smut of wheat  | +++          |                          |
| Ustilago nuda<br>Loose smut of barley  |              | +++                      |
| Ustilago hordei<br>Covered smut of barley                                      |              | +++                      |
| Septoria nodorum<br>glume blotch   | ++           |                          |
| Septoria tritici<br>leaf blotch  | ++           |                          |
| Pseudocercospora<br>herpotrichoides<br>Wheat eyespot                           | ++           | ++                       |
| Eysiphe graminis<br>Powderly mildew early                                      | +            | +                        |
| Helminthosporium gramineum<br>Stripe disease of barley                         |              | ++                       |
| Helmithosporium terres<br>late blight of barley                                |              | ++                       |

Remark: the effectiveness: +++ = excellent; ++ = good; + = spillover



## CHINMIX 5 EC

### BROAD-SPECTRUM PYRETHROID INSECTICIDE ACTIVE INGREDIENT BETA-CYPERMETHRIN

**Active ingredient content:** 50g/l beta-cypermethrin  
**Appearance:** light yellow, clear, sediment-free liquid  
**Available formulation:** SC – suspension concentrate



#### APPLICATIONS:

Chinmix 5 EC is a potent insecticide, effective by contact and ingestion against a wide range of pests, controlling many insects' species, very effective against Coleoptera, Lepidoptera, gives good protection against Diptera, Hemiptera. Mainly used in alfalfa, cereals, cotton, grapes, maize, oilseed rape, apple, potatoes, soya bean, sugar beet, tobacco and vegetables.

Dosage: 0,1-0,3 liter/hectar.

#### TOXICITY:

- Slightly toxic.
- Acute oral LD50 for rats 1,565 mg/kg
- Acute dermal LD50 for rats more than 5,000 mg/kg

#### SAFETY:

The product is practically safe for humans, however, the precaution measures are to be kept. It is flammable.



| CROPS                    | INSECT PEST  | DOSAGE (L/HA) | PHI*       |
|--------------------------|--|---------------|------------|
| Apple                    | Apple ermel, apple peel tortricide, leaf eating worms                | 0,25          | 7 days     |
| Cherry                   | Cherry-fruit fly   | 0,25          | 7 days     |
| Grapes                   | Grape-berry moths  | 0,35          | 3 days     |
| Wheat                    | Corn-whitening bug and grub -Oulema spp.                             | 0,35          | 10 days    |
| Potato                   | Potato-beetle  | 0,3           | 3 days     |
| Cotton                   | Cotton Bollworm -Helicoverpa armigera                                | 0,6           | 20 days    |
| Sugar-beet               | Owlet-moths, and worms   | 0,3           | 3 days     |
| Maize                    | European corn borer  | 0,35          | 10-14 days |
| Paprika                  | Aphids   | 0,3           | 3 days     |
| Tomato                   | Aphids   | 0,3           | 3 days     |
| Vegetables               | Owlet-moths grubs, aphids, potato-beetle                             | 0,3           | 14 days    |
| Mustard, rape            | Meligethes aeneus -pollen beetle                                     | 0,3           | 10 days    |
| Locus infected territory | Acrididae spp. spraying the concentrations of larvae – caterpillars. | 0,3-0,5       | 20 days    |

\*PHI – Pre Harvest Index

## CHINUFUR®

### SYSTEMIC INSECTICIDE AND NEMATICIDE

**For soil disinfectant,**

**For insect control on certain field, fruit and vegetable crops**

#### Active Ingredient

436 g/l carbofuran

#### Applications in crops:

sugar beet, rape, mustard, maize, sunflower, potato, tobacco, flax



Carbofuran is an insecticide of great biological activity, effective by contact to the nerve system and ingestion, belonging to the carbamate insecticides. Systemic effect of preparation on the pests appears in stopping the nerve impulses and in cutting off the nervous system of insects i.e. paralyzes. The drug rapidly enters the plant seedlings and protect them from pests.



#### TWO FORMULATION-TYPES EXIST:

- FW (water soluble concentrate):  
White colour suspension, mainly for soil disinfection and spraying of the stock.
- FS (water solution concentrate for purpose of seed treatment): Purple colour suspension mainly for seed treatment.

The agent of the two formulations is the same; the difference between them stands in the additives: in the FS formulation-type product with adhesivity-increasing and colouring agent. Resistance to the drug was not observed.

| CROPS      | PESTS  | DOSAGE      | METHOD OF APPLICATION   |
|------------|--|-------------|---|
| sugar beet | Complex soil-and ground pests: Sugar Beet Fleas - Sugar-beet weevils, Sugar-beet Trips, Sugar Beet aphid wireworms | 12 – 23 l/t | Seed dressing in the seed dressing shops before sowing, but maximum 6 months before the sawing. |
| rape       | Cruciferous Fleas  | 9,6-13 l/t  | Seed dressing in the seed dressing shops.   |
| Wheat      | soil pests, zabrus (Zabrus tenebrioides)   | 4-6 l/ha    | spraying  |
| Potato     | soil pests, Colorado beetle (Leptinotarsa decemlineata), plant-louses  | 4-6 l/ha    | spraying  |
| Tobacco    | soil pests, worms of owlet-moths   | 4-6 l/ha    | spraying  |
| Fibre Flax | soil pests, Aphtona euphorbiae   | 12 l/t      | seed dressing   |
| Oil Flax   | soil pests, Aphtona euphorbiae   | 5 l/t       | seed dressing   |







## Responsibility for environment

The company is committed to the protection of the environment and facilitating the management of waste. Following significant investments we support the initiatives and requirements of the EU Conform states related to soil, water and air.

### Continuous improvement in quality control

In the case of new products Agro-Chemie Kft. continuously develops the quality control test methods, which covers the raw material testing, process controls and product certification both.

### Specific technologies

Our specialists beside the research of original molecules and substances deals with:

- the improvement of new products
- formulation development
- specific chemical reactions
- new procedures, chemical methods and new manufacturing technologies.

The activity of research center encompasses the full innovational process: from the idea to the determination of large-scale production.

### Outstanding innovative activity

Agro-Chemie Kft. continues the internationally recognized innovative activity in the field of insecticides and acaricides.

For example the world wide patented own products of the company are beta- and theta-cypermethrin, and the Flumite which contains diflovidazin (SZI-121) active substance.

#### Laboratory facilities:

- classical analytics
- liquid chromatography (HPLC)
- UV spectrophotometry
- Particle Size Meter (Master Sizer 2000E)



## Application of Agro-Chemie's products in plant protection technology of different crops

|               | FUNGICIDE               | HERBICIDE | INSECTICIDE | ACARICIDE | SEED TREATMENT |
|---------------|-------------------------|-----------|-------------|-----------|----------------|
| Decoratives   |                         |           | Chinmix 5EC | Flumite   |                |
| Soybean       |                         | Fozat     | Chinmix 5EC | Flumite   |                |
| Cotton        |                         | Fozat     | Chinmix 5EC | Flumite   |                |
| Grape         | Kolfugo Super, Fundazol |           | Chinmix 5EC | Flumite   |                |
| Apple         | Fundazol                | Fozat     | Chinmix 5EC | Flumite   |                |
| Vegetables    | Fundazol                |           | Chinmix 5EC | Flumite   |                |
| Sugar beet    | Fundazol                |           | Chinmix 5EC |           | Chinufur       |
| Rape, Mustard |                         |           | Chinmix 5EC |           | Chinufur       |

#### OTHER FIELDS OF APPLICATION:

Against locust: Chinmix 5 EC

Non.agricultural territories: Fozat 480





## Our Services

Agro-Chemie is ready to cooperate with your company on the basis of tolling or warehousing according to our capacities indicated below:

### PRODUCTION OF:

- Wettable powder formulations
- Suspensible concentrates
- Emulsifiable concentrates

### FILLING OF:

- 20 liter cans
- 5 liter cans
- 1 liter flacons
- 0,2 liter flacons
- 0,1 liter flacons

### AMPOULES FILLING (PLASTIC AMPOULES):

- 5 ml plastic ampoules

### WAREHOUSING ACTIVITY

- warehousing of dangerous materials

### ADDRESS:

1225 Budapest, Bányalég Street 2.

### HOW TO GET THERE BY CAR:

The area of Agro-Chemie Ltd. can be reached from Budapest M0 ring-road in direction towards Érd on the M6 motorway.

### HOW TO GET THERE BY BUS:

Terminal of bus number 33







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