Agro-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.
**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.

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**CROPS** | **PEST** | **RATE**
--- | --- | ---
Apple | Fruit-tree red spider mite, Two speckled red spider mite 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, grapes rust-mite, two speckled red spider mite | 0.4-0.5 l/ha - early, “after sprouting” treatment against the mites, which overwinters in the sprout - summer treatment to inhibit the proliferating of mite populations which content different kind of mites - 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 - 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 - Summer treatment of plant for 1-2 times

**Efficacy**
Ovificidal 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, Eriophyes, Aculius, Vasates and Caliperimerus 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/m3
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.

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.

Proposed rate is 3,5 % spray mix.

Toxicity:
Acute oral LD50 on rats 4,900 mg/kg

Safety:
No fire and explosion hazard

<table>
<thead>
<tr>
<th>Crops</th>
<th>Weeds</th>
<th>Dosage (l/ha)</th>
<th>Spray Mix (l/ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field crops</td>
<td>perennial grasses and broadleaf weeds</td>
<td>4,0-6,0</td>
<td>150-250</td>
</tr>
<tr>
<td>Winter wheat</td>
<td>wheat grass, convolvulus, bindweed, harvest facilitation from cane</td>
<td>4,0-6,0</td>
<td>150-250</td>
</tr>
<tr>
<td>Grapes and fruits (older than 3 years)</td>
<td>perennial grasses and broadleaf weeds</td>
<td>2,0-3,0</td>
<td>150-250</td>
</tr>
<tr>
<td>Meadow and lawn</td>
<td>total weed control</td>
<td>3,5-5,0</td>
<td>250-300</td>
</tr>
<tr>
<td>Non agricultural areas (railroads, canals, water trenches)</td>
<td>total weed and scrub control</td>
<td>5,0-6,7</td>
<td>250-300</td>
</tr>
<tr>
<td>Forestry (more than 3 years old pine, spruce fir, Douglas pine)</td>
<td>total weed and scrub control</td>
<td>4,0-6,0</td>
<td>250-300</td>
</tr>
<tr>
<td>Logging</td>
<td>sprout control</td>
<td>3,5 % spray mix</td>
<td></td>
</tr>
</tbody>
</table>
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

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

**Spraying**

<table>
<thead>
<tr>
<th>CROPS</th>
<th>PATHOGENS</th>
<th>APPLICATION AND DOSAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cereal</td>
<td>Fusarium spp.</td>
<td>1-2.5 l/ha Combine with preparations on the basis of a.i. mancozeb and Microthiol Special</td>
</tr>
<tr>
<td>Sugar beet</td>
<td>Cercospora beticola</td>
<td>2.0 l/ha combining or rotating with contact fungicides</td>
</tr>
<tr>
<td>Sunflower</td>
<td>Diaporthe helianthi</td>
<td>6-8 l hoofed foliological phase and in blooming phase 1-2 spraying at dosage 2 l/ha Combinations: with mancozeb fungicides</td>
</tr>
<tr>
<td>Apple</td>
<td>Pseudomonas fuscovagina</td>
<td>3.0-4.0 l/ha</td>
</tr>
<tr>
<td>Grape</td>
<td>Uncinula necator</td>
<td>3.0-4.0 l/ha</td>
</tr>
<tr>
<td>Cherry</td>
<td>Monilia spp., Humereilla spp.</td>
<td>1.5 l/ha</td>
</tr>
</tbody>
</table>

**Remarks:**
* Vendob Buls 1.5-2.0 l/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, Septoria 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**

<table>
<thead>
<tr>
<th>Attributes</th>
<th>Winter Wheat</th>
<th>Winter and Spring Barley</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate (tonne)</td>
<td>2.0-2.5</td>
<td>2.0-2.5</td>
</tr>
<tr>
<td>Quality of seed treatment</td>
<td>Perfect</td>
<td>perfect</td>
</tr>
<tr>
<td>Resistance against abrasion</td>
<td>Excellent</td>
<td>excellent</td>
</tr>
</tbody>
</table>

**Effect-Spectrum, Effectiveness**

<table>
<thead>
<tr>
<th>Pathogen</th>
<th>Winter Wheat</th>
<th>Winter and Spring Barley</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fusarium spp. seedling blight</td>
<td>+++</td>
<td>+++</td>
</tr>
<tr>
<td>Fusarium nivale/snow-mold</td>
<td>+++</td>
<td>+++</td>
</tr>
<tr>
<td>Tilletia spp. common bunt or stinking smut (T.foetida, T.刈aries, T.intemedia)</td>
<td>+++</td>
<td>+++</td>
</tr>
<tr>
<td>Tilletia controversa/wheat bunt</td>
<td>+++</td>
<td>+++</td>
</tr>
<tr>
<td>Ustilago tritici</td>
<td>Loose smut of wheat</td>
<td>+++</td>
</tr>
<tr>
<td>Ustilago nuda</td>
<td>Loose smut of barley</td>
<td>+++</td>
</tr>
<tr>
<td>Ustilago hordei</td>
<td>Covered smut of barley</td>
<td>+++</td>
</tr>
<tr>
<td>Septoria nodorum</td>
<td>glume blight</td>
<td>++</td>
</tr>
<tr>
<td>Septoria tritici</td>
<td>leaf blight</td>
<td>++</td>
</tr>
<tr>
<td>Pseudonomospora herpotrichoides</td>
<td>Wheat eyespot</td>
<td>++</td>
</tr>
<tr>
<td>Erysiphe graminis</td>
<td>Powdery mildew early</td>
<td></td>
</tr>
<tr>
<td>Helminthosporium gramineum</td>
<td>Stripe disease of barley</td>
<td>++</td>
</tr>
<tr>
<td>Helminthosporium sacchari</td>
<td>late blight of barley</td>
<td>++</td>
</tr>
</tbody>
</table>

**Remark:**
= Vondozeb Plus 1.5-2.0 l/ton

**Remarks:**
Efficacy: +++ = 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.

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 carbamat 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. paralyses. 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 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 Bolbormor-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
AGRO-CHEMIE'S PROPOSAL FOR CEREAL PEST PROTECTION

GEOGRAPHY OF FLUMITE, FOZAT AND FUNDAZOL

FLUMITE 200
- Hungary
- Kazakhstan
- Colombia
- Brazil
- India
- Egypt
- Turkey
- Morocco
- Morocco
- Uzbekistan
- Georgia

FOZAT 480
- Hungary
- Russia
- Kazakhstan
- Ukraine
- Belarus
- Vietnam
- Taiwan
- Philippines
- Iran
- Armenia

FUNDAZOL 50 WP
- Russia
- Kazakhstan
- Ukraine
- Vietnam
- Taiwan
- Philippines
- Iran
- Armenia

CHINUFUR 40 FW
- KOLFUGO DUPELET
- KOLFUGO SUPER
- CHINMIX 5 EC
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 difluidazin (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

<table>
<thead>
<tr>
<th>FLUCIIDE</th>
<th>HERBICIIDE</th>
<th>INSECTICIIDE</th>
<th>ACARIICIIDE</th>
<th>SEED TREATMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decoratives</td>
<td>Chinmix SEC</td>
<td>Chinmix SEC</td>
<td>Flumite</td>
<td></td>
</tr>
<tr>
<td>Soybean</td>
<td>Fozat</td>
<td>Chinmix SEC</td>
<td>Flumite</td>
<td></td>
</tr>
<tr>
<td>Cotton</td>
<td>Fozat</td>
<td>Chinmix SEC</td>
<td>Flumite</td>
<td></td>
</tr>
<tr>
<td>Grape</td>
<td>Kolligo Super, Fundazol</td>
<td>Chinmix SEC</td>
<td>Flumite</td>
<td></td>
</tr>
<tr>
<td>Apple</td>
<td>Fundazol</td>
<td>Chinmix SEC</td>
<td>Flumite</td>
<td></td>
</tr>
<tr>
<td>Vegetables</td>
<td>Fundazol</td>
<td>Chinmix SEC</td>
<td>Flumite</td>
<td></td>
</tr>
<tr>
<td>Sugar beet</td>
<td>Fundazol</td>
<td>Chinmix SEC</td>
<td>Chinulfar</td>
<td></td>
</tr>
<tr>
<td>Rape, Mustard</td>
<td>Fundazol</td>
<td>Chinmix SEC</td>
<td>Chinulfar</td>
<td></td>
</tr>
</tbody>
</table>

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
- Suspensable 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, Bányalégl 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
Phone:
Secretary: +36 1/9000 800
Commercial manager: +36 1/9000 820
Purchasing: +36 1/9000 824

Email:
info@agrochemie.hu

Website:
www.agrochemie.hu