



Dakfosal, TB

## Dakfosal, TB

tablets

aluminium phosphide 570 g/kg

Fumigant insecticide for desinsection in various empty storages, and food, seed and fodder grain stocks in storages and elevator bins that are stored in bulk or bags under a film cover.

### Advantages:

- High fumigant activity
- Exterminates storage pests in hard-to-reach places
- Exterminates insect pests of any age
- No effect of product quality
- Easy to use

# Action

## Mode of action

As a result of chemical reaction of aluminum phosphide with atmospheric moisture, the Dakfosal tablet emits phosphine gas, which, when penetrating the organism of insect pests, impairs reduction-oxidation systems, inhibits the respiratory activity, disturbs metabolism and blocks oxygen intake, thus causing death of insects. Toxic effect on insects increases with temperature and slows down sharply at a temperature of max. 15 °C.

## Protective period

Protective period lapses after complete phosphine liberation from the preparation.

## Speed of action

Speed of action is dependent on gas concentration, ambient temperature (above 15 °C), pest species and insects life stage.

## Spectrum of action

Grain weevil, mealworm, saw-tooth grain beetle, corn moth, meal moth, drugstore beetle, coffee bruchid weevil, cigarette beetle, mites and other species of storage insect pests.

## Compatibility

Should not be used with other insecticides. Phosphine action may become stronger amid elevated content of carbon dioxide.

## Resistance

Cases of insect resistance to phosphine have been recorded. Resistant populations are exterminated by increasing the exposure time.

# Usage regulations

Crop / object of treatment	Harmful object	Consumption rates of preparation, l/ha	Method, time and conditions of application
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Empty grain storages	Storage insect pests	5 g/m <sup>3</sup>	Fumigation at ambient temperature above 15 °C. Exposure period – 5 days.
Food, seed and fodder grain stored in bulk, elevator bins and in bags under film cover	Insects and mites – storage pests	9 g/t	Fumigation at grain temperature above 15 °C. Exposure period – 5 days for insects and 9 days for mites. Degas – min. 10 days.
Grain processing enterprises	Storage insect pests	6 g/m <sup>3</sup>	Fumigation at an outdoor temperature above 10°C, indoors - above 15°C and not above 25°C. Layout of tablets on substrates. Exposure - 2 days. Degassing for at least 2 days. Realization of grain after complete degassing (but not earlier than 10 days) with a phosphine residue not higher than the MRL.
Grain food, seed, fodder in the holds of ships with a bulk of grain up to 4-6 m high in the inland ports of Russia	Storage insect pests	6 g/m <sup>3</sup>	Fumigation at an outside air temperature above 10 °C, grain - above 15 °C. Exposure - 3 days. Grain degassing after unloading for at least 8 days. Realization of grain after complete degassing (but not earlier than 10 days) with a phosphine residue not higher than the MRL. The admission of people to the holds of ships after degassing for at least 10 days.

<p>Grain of cereal crops, soybeans, tapioca and meal in the holds of domestic bulk-type ships and tankers and in foreign ships in terms of their inspection, unloading and loading in domestic ports</p>	<p>Storage insect pests</p>	<p>2.4 g/m<sup>3</sup></p>	<p>Fumigation at an outdoor temperature above 10 ° C, grain - above 15° C using the technology of recirculation of the gas-air mixture through the grain mass inside the hold. The duration of recycling is 5 days. The exposure is at least 10 days. Realization of grain after complete degassing (but not earlier than 10 days) with a phosphine residue not higher than MDU. Admission of people to the holds of ships after degassing for at least 10 days.</p>
<p>Flour and cereals in warehouses or under film</p>	<p>Insects and mites – storage pests</p>	<p>6 g/m<sup>3</sup></p>	<p>Fumigation at an outdoor temperature above 10 ° C, product - above 15 ° C. Layout of tablets on substrates. Exposure – 5 days for insects and at least 9 days for ticks. Degassing – at least 2 days. The realization of the product with a phosphine residue is not higher than MDU.</p>
<p>Grain food, seed, fodder in bulk in grain wagons en route</p>	<p>Insects and mites – storage pests</p>	<p>9 g/t</p>	<p>Fumigation at an outdoor temperature above 10 ° C, grain – above 15 ° C. Exposure – 3-5 days for insects and at least 9 days for ticks. Degassing of the car before unloading – at least an hour. Realization of grain after complete degassing (but not earlier than 10 days) with a phosphine residue not higher than MDU.</p>
<p>Dry vegetables in warehouses or under film</p>	<p>Insects and mites – storage pests</p>	<p>5 g/m<sup>3</sup></p>	<p>Fumigation at an outdoor temperature above 10 ° C, product – above 15 ° C. Layout of tablets on substrates. Exposure – 5 days for insects and at least 9 days for ticks. Degassing – at least 5 days. The realization of the product with a phosphine residue is not higher than MDU.</p>

**CAUTION!** Dakfosal, TB is authorized for use exclusively by professional personnel under agricultural production conditions. Fumigation must be performed strictly in accordance with the label instructions and registered use patterns.

The product must NOT be sold through retail channels, used on private farms, or applied to cellars, basements, or similar structures.

### **Application technique**

Calculate the required number of tablets before use. When possible, use packing (flask, container) contents for one operation. Perform fumigation at above 15 °C.

*For fumigation of elevators and grain storages.*

Add tablets into the grain flow in a short and fast manner at equal interval as grain is loaded into the bin. Grain is loaded into the bin via a belt conveyer. Tablets may be introduced into the bin using a chute. Add tablet using mechanical equipment (automatic dispenser) or manually with rubber gloves on.

The elevator bin shall be filled as soon as possible.

*For fumigation of crops in bags.*

Place tablets uniformly among bags and around bag piles.

Piles shall be gas-tight and covered with plastic sheets.

*Empty grain storages.*

Close rooms tightly before fumigation. Place tablets all over the room.

### **Phytotoxicity**

Phosphine has no adverse effect on seed germinating capacity of various plant species, when the recommended fumigation conditions and technique are used.

### **Limitations**

Preparation of limited usage. Diluted phosphine concentrations in air on outdoor sites are harmful for the environment. Phosphine oxidizes in plants and preparations store to phosphoric acid. In animal organisms, it metabolizes to non-toxic phosphates.

Access of humans after complete ventilation (not earlier than on 11th day after degassing started).

## **General information**

### **Transport and storage conditions**

Comply with all conventional rules of toxic substance transport. Keep the preparation in a room dedicated for pesticide storage. Storage temperature range - minus 20 °C to plus 35 °C.

**Shelf life**

3 years.

**Hazard class**

Hazard class 1, extreme hazard. Preparation of limited usage. Hazardous in inhaled and swallowed. Comply with safety regulations of SanPiN 1.2.1077-01. All works shall be performed by special teams of specialists in corresponding disciplines permitted to work with phosphine generating substances.

**Packing**

0.3 kg

**Registrant**

Schelkovo Agrohim, Russia

**Manufacturer**

Schelkovo Agrohim, Russia