

How phosphine works

Tablets (aluminium phosphide) react with moisture in the air to release phosphine gas for 2-5 days. Phosphine moves inside a silo in air currents.

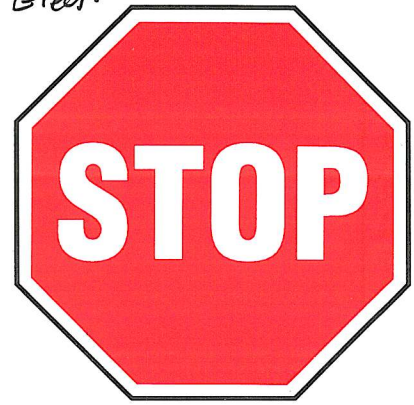
An unsealed silo or poorly covered seed stack allows most phosphine to escape quickly. **Resistant adult insects can survive fumigations in unsealed storages.** After the fumigation you may see dead weevils. Adult weevils are easily killed, but eggs and pupae are harder to kill and will survive.

- For most effective use, apply only in a sealed, gas-tight silo or under gas-proof sheeting.
- Keep sealed for the full exposure period of 7 to 20 days (see label) to allow gas to circulate and kill all insect growth stages.
- Apply at the label rate for storage capacity:

Sealed silo capacity			Number of tablets
tonnes wheat	bushels	m ³	
20	730	27	40
50	1830	67	100
100	3660	133	200
300	11000	400	600

- **You are fumigating the air space.** Always apply the same number of tablets in a silo - apply 100 tablets in a 50 tonne silo whether it contains 10, 20 or 50 tonnes of grain.

Phat has Elect



Information in this leaflet does not replace the label – read the label completely before using this product

Read this before opening the container of phosphine

Keep phosphine safe

S7 - Dangerous Poison

Phosphine products can kill people, livestock, pets and other animals.

Store in a locked container -
Do not carry in the cab of a vehicle

Compiled by

GRDC Grains Research & Development Corporation

- Maintain records of use.

A sample is on the reverse of this brochure.

POISON GAS - KEEP AWAY

DANGER

- Do not fumigate during transport. It is illegal. Truck drivers and grain handlers will be exposed to phosphine.
- Do not fumigate where gas could leak into working or living areas.
- Best practice avoids mixing phosphine tablets with grain. The residual dust is toxic. Spread tablets in a tray in the headspace to contain residual dust. Do not heap the tablets.
- Display clear warning signs.
- Remove the phosphine gas before handling grain. After the exposure period of 7-20 days, ventilate for 1-5 days, and leave for a further 2 days withholding period as on the label before use.

Safe practices

- When using phosphine products you have a legal duty of care to prevent anyone being harmed by your use of it.
- **Toxicity:** Phosphine products release a toxic gas when exposed to air. These products can kill if:
 - the product is swallowed or,
 - the gas is inhaled.
- The residual dust is also harmful if swallowed or inhaled.
- **Flammability:** Phosphine is flammable and explosive at high concentrations and temperatures. Heaping tablets together or adding water can cause these conditions.
- **Corrosion:** Phosphine corrodes electrical wiring in vehicles and buildings.

Keep Phosphine Safe

Display warning signs around fumigation area.



Sample of warning sign only

FUMIGATION IN PROGRESS

DATE COMMENCED:.....

1. Exposure period: 7 days 10 days 20 days
2. Ventilation (airing): 1 day 2 days 5 days
3. Withholding period before use: 2 days

DATE COMPLETED:.....