



## What are we treating?

BLUEFUME™ (active ingredient: Hydrogen Cyanide - HCN) is a rapid-acting fumigant used for structural fumigation (i.e., industrial buildings, processing plants, flour mills, empty structures, and ships), fumigation commodities, and fresh produce such as bananas and pineapples in NZ. Its effectiveness and short exposure with outstanding efficacy against a whole range of pests makes BLUEFUME™ one of the best fumigants on the market.

However, HCN is not a new compound in fumigation; its first use is dated in 1866 in citrus orchards in California. Since then, HCN was extensively used, especially in the late 19th and early 20th centuries. As hydrogen cyanide is naturally occurring in nature (fires, plants producing HCN as protection), its use has minimal impact on the environment compared to other chemicals used for fumigation such as Sulfuryl Fluoride (greenhouse effect) or Methyl Bromide (ozone depletion).

BLUEFUME™ is currently under assessment with APVMA for registration in Australia. However, BLUEFUME™ has been successfully registered in NZ and the European Union.

## Benefits at a glance

- Effective as an insecticide and rodenticide (excellent disinfestation and deratization effects)
- Rapid efficacy against a wide range of pest
- Excellent ovicidal effect - (egg killing effect)
- Zero resistance
- 24 hours fumigation treatment
- 24 hours thorough ventilation
- Reduced facility shutdown time
- Even distribution of the fumigant in the structure
- Consistent fumigant dose at low temperatures
- Minimal environmental impact – no greenhouse effect and no ozone depletion
- Staff that can be on site before the application begins

## Application:

The application method of BLUEFUME™ has been redeveloped and modernised to be more suitable for 21st-century safety requirements. It is based on vaporising HCN through fogging or atomizing nozzles that are located in the treatment space and connected to lightweight composite BLUEFUME™ cylinders by a system of plastic distribution lines.



Did you know? Cyanogenic Glycosides (as found in HCN) are common protective agents found in nature -  
For example: In almond kernels, cherry stones and apple pips.

## Target pests and concerns:

Pest	Description	Where they are found
Cigarette beetle	2-3 mm light brown to shining red protective outer layer. They are widespread in many states of Australia	Primarily a pest of stored tobacco. However, it can also be found in milled cereal, seeds, stored grain, spices, packed food products.
Flour mite	It is just a little over a tenth of an inch long and has a soft white body.	It infests pet food, horse feed, cereals, rice, dried vegetables, cheese, corn, cornmeal, and dried fruit.
Lesser grain borer	Black-brown in colour, 2.5-3 mm long. The body has a slender cylindrical form and the head is hidden under the round neck-shield.	It can infest tobacco, nuts, beans, bird seed, biscuits, cassava, cocoa beans, dried fruit, peanuts, spices, rodenticide baits, and dried meat and fish.
Weevils	Small 3-4 mm long dark brown-black weevil with a long 'snout'.	Stored grain product
Rust Red Flour Beetle	3-4.5 mm long with club-shaped segments on antennae ends.	Beetles will infest grain but breed more successfully on processed products (such as flour).
Indian Meal Moth	A brown-gray butterfly that lays eggs in food and food commodities	Found in stored food and grain storage, nuts, oilseeds, and dried fruit.
Poultry Red Mite	1 mm long nocturnal beetle whose larvae and adults feed on the blood of birds.	It occurs mainly in nests and poultry houses; in case of an outbreak, it may also feed on people.
American Cockroach	Reaching 35-40 mm in length. They are reddish-brown in colour with a pale-yellow border around the upper part of the thorax and pale legs.	Living indoors in cool regions and outdoors in warm regions. Buildings commonly infested include hospitals, bakeries, food stores, factories, and houses.
Bed Bug	Brown to reddish brown colour about 4-5 mm long	Live in regularly occupied human dwellings, where they only feed on the blood of people, dogs, cats, and caged birds.
Brown Rat	A large rodent, which grows up to 22-30 cm	It moves in the vicinity of sewers, manure, waste dumps, cellars, and warehouses.
House Mouse	Home pest that is around 15-20 cm in length	Seeks shelter in the spaces above ceilings, in attics, in tight spaces in warehouses and under them.
Rat	A large rodent with a body up to 20 cm long	An omnivorous rodent that seeks out grain, flour and stored product.

## Draslovka Services Group

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