



(16.7% Ethyl Formate, 83.3% balance CO₂)

For centuries, people have struggled with the need to eliminate pests in harvested food without compromising human health or the environment. Typically, agricultural distributors have relied on radiation, chemicals or gases such as methyl bromide to comply with statutory fumigation requirements. However, these processes present various environmental and health challenges. Methyl bromide, for instance, has been outlawed in many countries due to its high ozone depleting potential.

Solution of choice for the eco-conscious

eFUME™ is a safe, non-residual way to protect your post-harvest produce, packaged and stored foods and processing equipment. The active ingredient is Ethyl Formate – a naturally occurring, non-residual substance with zero ozone depleting potential.

Ethyl Formate is Generally Regarded As Safe (GRAS) by the American Food and Drug Administration (FDA 1984). It has low mammalian toxicity but rapidly kills insect pests. It is approved in a number of countries for control of insect pests in post-harvest commodities.

eFUME™ has been developed for a broad range of applications from post-harvest fumigation, house-hold pests to equipment disinfection.

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It is suited to a wide variety of dried fruits, nuts, oil seeds, and the list of regulatory approvals is expanding rapidly. You can rely on eFUME™ for rapid and effective control of post-harvest insect pests (1 to 24 hours for a treatment depending on the commodity to be fumigated).

Other benefits include faster shipment of treated commodities as eFUME™ has a shorter ventilation period and eliminates the need for a withholding period. Importers and exporters of agricultural goods need to check with local authority requirements and approval for use of eFUME™ for post harvest shipments.

Benefits at a glance

- Environmentally friendly, fast-acting alternative to methyl bromide
- Effective on a wide range of insects
- Approved for a broad selection of pest of fruit, vegetables, dried fruits, nuts and grains
- Faster shipping – no withholding period
- Efficiency gains thanks to dedicated, innovative dispensing solution
- The active ingredient and its break down compounds are naturally occurring substances
- eFUME™ eliminates the use of harmful, residual pesticides after fruits and vegetable harvest
- Favourable toxicological profile –TLV 100ppm for 8 hours vs 0.3 ppm phosphine, 5 ppm methyl bromide
- No Maximum Residue Limit (MRL) for cereal grains and fresh food commodities is applicable when used as recommended

Fresh take on fumigation

Draslovka Services has developed and built a fast-acting vaporiser in response to the industry demand for a faster application of eFUME™. The eFUME™ vaporiser is a specifically designed heat exchange system developed for the vaporisation of eFUME™ from its pre-mixed liquid form in the cylinder to its gaseous form. Focussed on the ongoing development and improvement of equipment and processes, Draslovka Services endeavours to ensure seamless application in a timely manner.

Fun facts

- It is the oldest fumigant used since 1929 to disinfect dry fruits.
- Commercially, Ethyl Formate is used in the manufacture of artificial rum, as a flavour for lemonade and essences.
- Naturally occurring active ingredient found in fruit, cheese, beer etc (Barley 1 mg/kg)

Complementary services

We combine our innovative eFUME™ solution with professional expertise, services and reliable safety support to ensure you enjoy the best possible results. Inspired by a strong and active sense of product stewardship, our broad service offering extends from initial evaluations through dosing equipment customisation and field trials to registration support. For your added safety, we also offer personal protective equipment, safety training, installation support and waste gas management. Talk to us today to see how we can help you.

At Draslovka Services, we believe in innovative pest control technologies, equipment and services that balance the need for effective fumigation with environmental awareness. Not only do our pest control solutions present a more sustainable way to secure tomorrow's food chains, they also create a safer, healthier work environment for the fumigators.

Application time for shipping containers:

Vaporiser	Dose Rate	40ft shipping container	Total product required	Application time	Time saved
Draslovka eFUME™ Vaporiser	420 g/m ³	68 m ³	29 kg	5 minutes	55 minutes
Other vaporisers currently available				60 minutes	

Effective dose rates of eFUME™

Target commodity	Target pests	Dose rate & treatment time
Cereal grains, oilseeds, dried fruits, dates, tobacco Grain storage premises and equipment	Complete control of all stages of: Lesser grain borer (<i>Rhyzopertha dominica</i>), Flour beetle (<i>Tribolium castaneum</i>), Psocids (various species), Storage moths (<i>Esphestia spp.</i> , <i>Plodia spp.</i>), Saw-toothed grain beetle (<i>Oryzaephilus spp.</i>), Flat grain beetle (<i>Cryptolestes spp.</i>) Complete control of eggs, larvae and adults of: Cigarette beetle (<i>Lasioderma serricornis</i>), Nitidulid beetles (<i>Carpophilus hemipterus</i> ; <i>C. maculatus</i>); Rice weevil (<i>Sitophilus oryzae</i>)	660g/m ³ (6 hours exposure) or 420g/m ³ (24 hours exposure)
Banana	Mites (<i>Oligotetranychus spp.</i>), Mealybugs (<i>Dysmicoccus spp.</i>) Scale (<i>Aspidiotus spp.</i>), Coffee bean weevil - <i>Araecerus fasciculatus</i>	420 g/m ³ (6 hours exposure)
Capsicum or sweet pepper	Western flower thrips (<i>Frankliniella occidentalis</i>)	70 g/m ³ (2 hours exposure)
Apple	Obscure mealybugs - <i>Pseudococcus viburni</i> , Onion thrips - <i>Thrips tabaci</i> , Latania scale insects - <i>Hemiberlesia lataniae</i>	160 g/m ³ for 1 hour
Pineapple	Mites (<i>Dolichotetranychus floridanus</i>), Mealybugs (<i>Dysmicoccus neobrevipes</i>) Scale (<i>Diaspis bromiliae</i>)	420 g/m ³ (2 hours exposure)
Kiwifruit (Excluding Gold Kiwifruit)	Oleander scale (<i>Aspidiotus nerii</i>), Long tailed mealybugs (<i>Pseudococcus longispinus</i>)	140 g/m ³ (6 hours exposure)
Table grapes, Blueberry and Persimmon	Light brown apple moth (<i>Epiphyas postvittana</i>), Red back spiders (<i>Latrodectus hasselti</i>), Two spotted mite (<i>Tetranychus urticae</i>)	240g/m ³ (4 hours)
	Long tailed Mealy bug (<i>Pseudococcus longispinus</i>), Western flower thrips (<i>Frankliniella occidentalis</i>), Plague thrips (<i>Thrips imagines</i>)	120 g/m ³ (3 hours)
Citrus	Light Brown Apple Moth (<i>Epiphyas postvittana</i>), Fullers Rose Weevil (<i>Asynonychus cervinus</i>), Californian red scale (<i>Aonidiella aurantii</i>), Bean thrips (<i>Caliothrips fasciatus</i>)	370 g/m ³ for 6 hours
	Long-Tailed Mealybug (<i>Pseudococcus longispinus</i>), Citrus Mealybug (<i>Planococcus citrii</i>)	330 g/m ³ for 3 hours
Fresh sweet corn	Cotton bollworm or corn earworm <i>Helicoverpa armigera</i> (Hübner) Native budworm or Australian bollworm <i>Helicoverpa punctigera</i> (Wallengren) Two-spotted spider mite <i>Tetranychus urticae</i> (Koch) Western flower thrips <i>Frankliniella occidentalis</i> (Pergande) Plague thrips <i>Thrips imaginis</i> (Bagnall) Green peach aphid <i>Myzus persicae</i> (Sulzer) Corn aphid <i>Rhopalosiphum maidis</i> (Fitch)	270 g/m ³ for 4 hours
Bed bugs	Bed bugs- adults, immature and egg stages of Cimex sp	510 g/m ³ for 4 hours

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