

EDN FUMIGAS[®] for logs and timber.

A non-ozone-depleting, effective fumigation solution backed by professional services.

Timber – in its many forms from logs to finished articles – is constantly moving around the world. This timber is an essential building block in the homes, workplaces and furniture that surround us. As the world's population grows, so too does the need to increase the quantity, quality and sustainability of lumber supplies. Global trade in wood products continues to expand in lock-step with rising standards of living, accelerated in particular by the swelling middle classes in developing nations. Unfortunately, meeting this demand can come at a cost, with illegal forestry practices destroying natural habitats. At the same time, sustainable but untreated forest tracts can result in the proliferation of pests with the capacity to invade and destroy native forests. The emerald ash borer is one such example. Introduced to North America through timber movements, it now threatens to wipe out native Ash populations.

Meeting today's timber challenges

To secure and increase the world's lumber supplies, the forestry industry needs effective fumigation solutions capable of protecting native forests against invasive pests and diseases both before and after the wood has been harvested. More specifically, the market needs viable alternatives to conventional fumigation gases such as methyl bromide – which is being phased out globally as it is destroying the ozone layer.

At Linde, we believe in innovative crop science technologies, equipment and services that balance the need for effective fumigation with environmental awareness. Underpinned by a strong sense of product stewardship, our pest control solutions present a more sustainable way to secure tomorrow's wood supplies.



Protection matters

EDN FUMIGAS is the next generation timber and log fumigant. As a replacement for the ozone depleting methyl bromide EDN FUMIGAS has been shown to have higher more effective toxicity on a large range of timber pests as well as having superior penetration qualities - even into moist logs. These excellent penetration qualities ensure that even wood borer insects are controlled. With no known insect resistance, EDN FUMIGAS overcomes the problems associated with growing resistance among insects and pests to traditional chemicals and fumigants.

EDN FUMIGAS is already registered in Australia and registrations for many other regions are pending. The Linde Group is working with national and international biosecurity groups to establish global fumigation standards to support the lumber trade.

Performance gains

Comparable to methyl bromide in terms of efficiency, EDN FUMIGAS requires less dosage per commodity, has a shorter fumigation period (10 hour fumigation treatment time) and offers improved penetration characteristics. All of which combines to increase your productivity and profitability.

Benefits at a glance

- Higher toxicity to timber pests than methyl bromide - controls both surface and cryptic timber insects
- EDN FUMIGAS toxicity increases with increase in relative humidity and carbon dioxide
- Superior penetration - both across and along the timber grain
- EDN FUMIGAS penetrates both wet and dry timber while methyl bromide is seen as effective on dry timber
- Quicker fumigation period (10 hours) for a range of timber pests
- No known Global Warming Potential
- Viable alternative to ozone-depleting methyl bromide
- Ease of use with dedicated, innovative dispensing solution - Drop-in replacement for methyl bromide
- Backed by our extensive consulting, installation, safety training and support services
- Scrubbing technology available to enhance user and bystander safety

Complementary services

We combine our innovative EDN FUMIGAS 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.

Typical examples of products, dosing rates and treatment times

Commodities	Pest/insect	Dose rate
Fresh logs, Cut timber, Timber products & packaging	Insects: European house borer (<i>Hylotrupes bajulus</i>), Asian Long Horn Beetle (<i>Anoplophora glabripennis</i>), Japanese pine sawyer larvae (<i>Monochamus alternatus</i>), <i>Coptotermes acinaciformis</i> , <i>Coptotermes brevis</i> , <i>Rhyzopertha dominica</i> , <i>Cryptotermes brevis</i> , <i>Mastotermes darwiniensis</i> , <i>Cryptotermes brevis</i> Pathogens: Ganoderma applanatum, Splitgill (<i>Schizophyllum commune</i>) Nematode: Pine wilt disease (<i>Bursaphelenchus xylophilus</i>)	50g/m ³ - 6 to 10 hours depending on the pest of concern

Please contact us for details on dosage and registration in your country.

For more information about our fumigation solutions and details of current or pending regulatory tests and approvals, visit cropscience.linde-gas.com or contact:

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