

## **The status of Ethanedinitrile and Carbonyl sulfide registration in Australia**

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CSIRO Australia and the global industrial gas company the BOC Group have signed a deal to deliver to the international market new alternative fumigants for treating soil, timber insect pests, weeds and diseases. CSIRO and BOC have agreed to commercialise ethanedinitrile (EDN) and carbonyl sulphide (COS) as alternatives for methyl bromide which is being phased out under the Montreal Protocol.

EDN will initially be targeted to soil timber and devitilisation of grain application in the label submitted with the registration data while COS is targeted to fumigation of durables. Applications targeting quarantine issues are being developed and will be added to the label as accepted by quarantines authorities.

Data for registration was submitted in June 2005 to the Australian Pesticides and Veterinary Medicines Authority (APVMA) and the process is progressing. Negotiations for the supply of both fumigants are underway.

BOC plan on introduce these alternatives, initially into the South Pacific market, to satisfy the needs of growers, fumigators and producers who have been willing to participate in the development phase. The driver for this has been due to problems being experienced with many of the current replacements for methyl bromide.

CSIRO is assisting BOC by generating the efficacy data for the fumigants with BOC registering the products and identifying suitable manufacturers. Both CSIRO and BOC have already received interest from a number of countries to trial and introduce applications of EDN and COS.

BOC has a long history of responsible stewardship with gas fumigants. With CSIRO they developed the cylinderised phosphine fumigant ECO<sub>2</sub>FUME® now being marketed by Cytec and recently gained registration for Vapormate® a formulation of ethyl formate in carbon dioxide for treatment of stored products and a range of cylinderised pesticide gas products for treatment of headspaces in warehouses.