

ENVIRONMENTAL RISK MANAGEMENT AUTHORITY

THE BULLETIN

The Bulletin is published approximately nine times per year. It is an official record of applications being processed, the Authority's decisions, and other activities under the Hazardous Substances and New Organisms (HSNO) Act 1996. The Bulletin – and further information on the application process are available on the ERMA New Zealand website: www.ermanz.govt.nz. The Bulletin can also be ordered by electronic subscription through bulletin@ermanz.govt.nz

NEW ORGANISMS

NON-NOTIFIED APPLICATIONS RECEIVED

Application Code: GMC02004

Applicant: University of Auckland

Purpose: Import of genetically modified rats for investigating the role a rhodopsin mutation plays in retinitis pigmentosa with a long-term aim to understand the disease and develop therapeutic interventions

Date Application Received: 7 June 2002

Application Code: GMC02006

Applicant: University of Otago

Purpose: To import into containment genetically modified mice to investigate the molecular and cellular properties of the gonatrophin-releasing hormone (GnRH) neurons that are responsible for regulating fertility in all mammalian species

Date Application Received: 13 June 2002

STALLED APPLICATIONS

Application Code: GMC02005

Applicant: AgResearch Limited - Wallaceville Office

Purpose: To import nematodes and gene libraries for use in investigating parasite drug resistance and to develop methods, including vaccines, to combat nematode diseases in livestock and humans

Date Application Received: 14 June 2002

Date Application Stalled: 19 June 2002

NOTIFIED APPLICATIONS RECEIVED AND OPEN FOR SUBMISSIONS

There are no applications currently open for submissions

DECISIONS ON APPLICATIONS

The Environmental Risk Management Authority reached a decision on the following application on 10 June 2002

Application Code: S2602002

Applicant: Ministry of Agriculture and Forestry (MAF) Biosecurity Authority

Purpose: Determination whether or not *Bacillus anthracis* Cohn 1872 is a new organism under section 26 of the HSNO Act

Decision: That the bacterium *Bacillus anthracis* Cohn 1872 (Bacillaceae) is not a new organism under section 26 of the HSNO Act

The Environmental Risk Management Authority reached a decision on the following application on 18 June 2002

Application Code: NOC02001

Applicant: Landcare Research

Purpose: To import into containment cut shoots and seeds of a range of plant species from Hawaii (including native and valued plants, as well as their close relatives) to confirm the host specificity of gorse pod moth

Description of Organisms: *Arachis pintoi*, Krapov and WC Gregory (1994)

Caesalpinia bonduc, (L.) Roxb. (1846)

Caesalpinia major, (Medik.) Dandy and Exell (1846)

Canavalia cathartica, Degener, I, Degener and J Sauer (1964)

Canavalia hawaiiensis, Thouars (1908)

Dioclea wilsonii, Standl (1825)

Please feel free to photocopy this material. Acknowledgement of ERMA New Zealand would be appreciated.

ERMA NEW ZEALAND

PO Box 131 Wellington

Phone: +64 4 916 2426 Fax: +64 4 914 0433

Email: info@ermanz.govt.nz

Website: www.ermanz.govt.nz

Erythrina sandwicensis, *O. Degener (1932)*
Metrosideros polymorpha, *Gaud. (1830)*
Mucuna gigantean, *Willd DC (1864)*
Myoporum sandwicense, *A. Gray (1862)*
Senna gaudichaudii, (*Hook & Arnott*) *Irwin and Barneby (1962)*
Strongylodon ruber, *Vogel (1836)*
Tephrosia purpurea, *I. Pers. (1983)*
Vigna marina, (*Burm.f.*) *Merr. (1917)*

Decision: Approved with Controls

ERMA Approval Code: NOC002261-NOC002274

Controls:

In order to satisfactorily address the matters detailed in the Third Schedule Part II: Containment controls for new organisms excluding genetically modified organisms¹ of the HSNO Act, and other matters in order to give effect to the purpose of the HSNO Act (section 45(2)), the Committee's approval of this application is subject to the following controls:

1. To limit the likelihood of any accidental release of any organism or any viable genetic material²:

- 1.1 The organisms shall be maintained in a registered containment facility operated by Landcare Research at Lincoln.
- 1.2 All experimental procedures involving the organisms shall be carried out within the registered containment facility.
- 1.3 The construction, operation, and management of the registered containment facility shall be in accordance with the:
 - a) Ministry of Agriculture and Forestry (MAF)/ERMA New Zealand Standard 154.02.08. *Transitional and Containment Facility for Invertebrates*;
 - b) Australian New Zealand Standard AS/NZS 2243:3 2002 Safety in *Laboratories: Part 3: (Microbiological aspects and containment facilities)*, Invertebrate Containment Level 2 (PC2)
 - c) the controls of the Authority.

2. To exclude unauthorised people from the facility:

- 2.1 The identification of entrances, numbers of and access to entrances, and the security requirements for the entrances and the facility shall be in compliance with the standards listed in Control 1.3.

3. To control the effects of any accidental release or escape of an organism:

- 3.1 Control of the effects of any accidental release or escape of the organisms that are the subject of this approval shall be in compliance with the standards listed in Control 1.3.

- 3.2 If for any reason a breach of containment occurs the facility Supervisor³, MAF Biosecurity Authority and ERMA New Zealand shall be notified immediately the event is noticed (and at least within 24 hours of the breach being detected).
- 3.3 In the event of any breach of containment of the organisms, the contingency plan for the attempted retrieval or destruction of any viable material of the organism that has escaped shall be implemented immediately. The contingency plan shall be included in the containment manual in accordance with the requirements of standards listed in Control 1.3 and 4.3

4. Inspection and monitoring requirements for containment facilities:

- 4.1 The inspection and monitoring requirements for containment facilities shall be in compliance with the standards listed in Control 1.3.
- 4.2 The Authority or its authorised agent or properly authorised enforcement officers, may inspect the facility at any reasonable time.
- 4.3 The containment manuals shall be updated, as necessary, to address the implementation of the controls imposed by this approval, in accordance with Ministry of Agriculture and Forestry (MAF)/ERMA New Zealand Standard 154.02.08. *Transitional and Containment Facility for Invertebrates*.

5. Qualifications required of the persons responsible for implementing those controls:

- 5.1 The training of personnel working in the facility shall be in compliance with the standards listed in Control 1.3.

6 Additional controls:

- 6.1 At the completion of the host specificity testing all plant material and all soil and other material in close association with the plant material shall be destroyed by autoclaving or incineration where appropriate.
- 6.2 The applicant shall keep an inventory of all the 20 shoots and 100 seeds of each of the 14 species of plants to be imported in a logbook so that all imported plant material is accounted for prior to being destroyed during and at the conclusion of the host specificity testing.
- 6.3 All seed formed on flowering buds shall be collected and destroyed by autoclaving or incineration.
- 6.4 This approval is for 3 years from the date at which this approval is given.
- 6.5 Before the expiry of this approval any remaining plant material and all soil and other material in close association with the plant material shall be destroyed by autoclaving or incineration where appropriate.

¹ Bold headings refer to matters to be addressed by containment controls for new organisms excluding genetically modified organisms, specified in the Third Schedule (Part II) of the HSNO Act 1996.

² Viable Genetic Material is biological material that can be resuscitated to grow into tissues or organisms. It can be defined to mean biological material capable of growth even though resuscitation procedures may be required, eg when organisms or parts thereof are sublethally damaged by being frozen, dried, heated, or affected by chemical.

³ An inspector appointed under the Biosecurity Act.

6.6 At the completion of this research a report detailing any compliance issues and a copy of the logbook shall be provided to ERMA New Zealand on the expiry of the approval.

The Environmental Risk Management Authority reached a decision on the following application on 21 June 2002

Application Code: S2602007

Applicant: Crop and Food Research

Purpose: Determination whether or not *Ipomoea nil* (L.) Roth is a new organism under section 26 of the HSNO Act.

Decision: That *Ipomoea nil* (L.) Roth is not a new organism under section 26 of the HSNO Act

DELEGATED AUTHORITY

The Chief Executive of the Environment Risk Management Authority, acting under delegated power from the Authority, reached a decision on the following application on 6 June 2002.

Application Code: GMD02022

**Applicant: Ministry of Agriculture and Forestry (MAF)
- National Plant Pest Reference Laboratory (NPPRL)**

Purpose: To develop in containment PCR-amplified cDNA copies of two thirds or less of viral or viroid genes from plants into commercial vectors and to clone them into *Escherichia coli* prior to sequencing

Description of Organisms: *Escherichia coli* (Migula 1895) Castellani & Chalmers 1919 strain K12 or B derivatives

Decision: Approved with Controls

ERMA Approval Code: GMD002139

Controls:

In order to satisfactorily address the matters detailed in the Third Schedule Part I: Matters to be addressed by containment controls for importing, developing or field testing of genetically modified organisms⁴ of the HSNO Act, the approval of this application is subject to the following controls:

1. To limit the likelihood of any accidental release of any organism or any viable genetic material⁵:

- 1.1 The person responsible for a particular research area and/or the person responsible for the operation of the containment facilities ('the facility') shall inform all personnel involved in the handling of the organisms of the Authority's controls.
- 1.2 The containment facility shall be registered by the Ministry of Agriculture and Forestry (MAF)

in accordance with the MAF/ERMA New Zealand Standard 154.03.02: Containment Facilities for Microorganisms at laboratory physical containment level 1 (PC1) (as specified in the Australian New Zealand Standard AS/NZS 2243.3:2002 *Safety in Laboratories Part 3: Microbiological aspects and containment facilities* and other controls of the Authority. The construction, operation and management of the containment facilities shall be in accordance with these standards.

- 1.3 The scope of organisms covered by this approval is limited to those specified in Annex 2 of this decision.

2. To exclude unauthorised people from the facility:

- 2.1 The identification of entrances, numbers of and access to entrances, and security requirements for the entrances and the facility shall be in compliance with the requirements of the standards listed in control 1.2.

3. To exclude other organisms from the facility and to control undesirable and unwanted organisms within the facility:

- 3.1 The exclusion of other organisms from the facility and the control of undesirable and unwanted organisms within the facility shall be in compliance with the standards listed in control 1.2.

4. To prevent unintended release of the organism by experimenters working with the organism:

- 4.1 The prevention of unintended release of the organisms by experimenters working with the organisms shall be in compliance with the standards listed in control 1.2.

5. To control the effects of any accidental release or escape of an organism:

- 5.1 Control of the effects of any accidental release or escape of the organisms shall be in compliance with the standards listed in control 1.2.
- 5.2 In the event of any breach of containment the contingency plan for the attempted retrieval or destruction of any viable material of the organisms that have escaped shall be implemented immediately. The contingency plan shall be included in the containment manual in accordance with the MAF/ERMA New Zealand Micro organism Standard 154.03.02.
- 5.3 If for any reason a breach of containment occurs the facility Supervisor⁶, MAF Biosecurity Authority and ERMA New Zealand shall be notified immediately the event is noticed (and at least within 24 hours of the breach being detected).
- 5.4 The applicant shall comply with the requirements of the standards listed in control 1.2 relating to compliance and the maintenance of records, as required by the quality assurance programme.

⁴ Bold headings refer to matters to be specifically addressed by containment controls under the Third Schedule (Part I) of the HSNO Act.

⁵ Viable genetic material is biological material that can be resuscitated to grow into tissues or organisms. It can be defined to mean biological material capable of growth even though resuscitation procedures may be required, eg when organisms or parts thereof are sub-lethally damaged by being frozen, dried, heated, or affected by chemical.

⁶ An inspector appointed under the Biosecurity Act 1993.

6. Inspection and monitoring requirements for containment facilities:

- 6.1 The inspection and monitoring requirements for containment facilities shall be in compliance with the standards listed in control 1.2.
- 6.2 The Authority, or its authorised agent or properly authorised enforcement officers, may inspect the facilities at any reasonable time.
- 6.3 The containment manuals shall be updated, as necessary, to address the implementation of the controls imposed by this approval, in accordance with the MAF/ERMA New Zealand Micro organism Standard 154.03.02.

7. Qualifications required of the persons responsible for implementing those controls:

- 7.1 The training of personnel working in the facility shall be in compliance with the standards listed in control 1.2.
- 7.2 The facility Operator, in consultation with the Institutional Biological Safety Committee (IBSC), shall ensure that only suitably trained individuals will handle infectious material covered under this approval.
- 7.3 The facility Operator shall record the qualifications and training undertaken of all personnel working with organisms under this approval, and make these records available for examination by the Inspector.

The following applications were decided by institutions acting under delegated powers from the Authority

Applicant: Crop and Food Research, Palmerston North
Institution application code: GMO02/CFPN002

Purpose: To screen cDNA and genomic libraries from cereal crops for starch metabolism genes and to examine the expression and possible function of these genes as part of a project on the regulation of starch metabolism

ERMA Approval code(s): GMD002140-2143

Description of organism: *Escherichia coli* strain K12 or B derivatives, *Saccharomyces cerevisiae* laboratory strains and *Arabidopsis thaliana* as modified by non-conjugative general bacterial plasmid vectors or *Escherichia coli* to yeast shuttle vectors containing genes sourced from *Arabidopsis thaliana*, maize (*Zea mays*), wheat (*Triticum aestivum*), oats (*Avena sativa*) and barley (*Hordeum vulgare*)

Decision: Approved with controls (PC1, PC2)

Applicant: Genesis Research and Development
Institution application code: GMO02/GR033

Purpose: Expression of plant, animal, fungal and bacterial proteins in the yeast *Pichia pastoris* to study protein function

ERMA Approval code(s): GMD002144-2145

Description of organism: *Escherichia coli* K12 and *Pichia pastoris* modified with DNA isolated from plants, animals, bacteria or fungi e.g. *Festuca* spp., *Lolium* spp., *Cucumis sativus*, *Cucumis melo*, *Curcubita maxima*, *Curcubita moschata*, *Sicyos angulatus*, *Liquidambar styraciflua*, *Pinus radiata*, *Pinus taeda*, *Eucalyptus grandis*, *Arabidopsis thaliana*, *Nicotiana tabacum*, *Nicotiana benthamiana*, *Oryza sativa*, *Petunia inflata*, *Lycopersicon esculentum*, *Actinidia deliciosa*, *Malus domestica*, *Daucus carota*, *Brassica* spp., *Zea mays*, *Triticum* spp., *Secium edule*, *Zinnia elegans*, *Hordeum vulgare*, *Mus musculus*, *Rattus norvegicus*, human cell lines (including HaCaT- human keratinocyte line; HeLa - human cervical epithelial line; Jurkat - human T cell; RAJI - human B cell lymphoma), *Ovis aries*, *Bos taurus*, *Cervus elaphus*, *Mycobacterium vaccae*, *Lactobacillus rhamnosus* and *Botrytis* spp (eg *Botrytis cinerea*)

Decision: Approved with controls (PC1 and PC2)

Applicant: Genesis Research and Development
Institution application code: GMO02/GR034

Purpose: To produce cDNA or genomic libraries with DNA from plant, animal, bacterial and fungal origin for genomic sequencing. This is an update of GMO00/GR018 and GMO00/GR025

ERMA Approval code(s): GMD002146

Description of organism: *Escherichia coli* modified with fungal DNA for example, but not limited to, *Botrytis* spp and *Neurospora* spp

Decision: Approved with controls (PC1)

Applicant: Genesis Research and Development
Institution application code: GMO02/GR035

Purpose: To express plant protein for bioassays to study the effect that specific genes have on the phenotypic properties of transformed plants

ERMA Approval code(s): GMD002147

Description of organism: *Cucurbita moschata* (whole plants, callus, cell suspensions and protoplasts) modified with cDNA and gene sequences isolated from plant origin (including, for example, *Cucurbita moschata* (butternut pumpkin), *Cucumis sativus* (cucumber), *Cucumis melo* (melon), *Cucurbita maxima* (pumpkin), *Pinus radiata*, *Eucalyptus grandis*,

Arabidopsis thaliana, *Nicotiana tabacum*, *Nicotiana benthamiana*, *Oryza sativa* (rice), *Petunia inflata*, *Lycopersicon esculentum* (tomato), *Actinidia deliciosa* (kiwifruit), *Malus domestica* (apple), *Festuca* spp (fescue grass), *Lolium* spp (ryegrass), *Daucus carota* (carrot), *Brassica* spp, *Zea mays* (maize), *Triticum* spp (wheat), *Sechium edule* (Choko), *Zinnia elegans*, *Hordeum vulgare* (barley) and *Sicyos angulatus* (cucurbit vine)) but will not include native New Zealand flora

Decision: Approved with controls (PC2)

Applicant: Genesis Research and Development

Institution application code: GMO02/GR036

Purpose: To express plant protein for bioassays to study the effect that specific genes have on phenotypic properties of transformed plants. This is an update of GMO01/GR031

ERMA Approval code(s): GMD002148

Description of organism: *Escherichia coli* as modified with DNA isolated from *Cucurbita moschata*

Decision: Approved with controls (PC1, PC2)

Applicant: Lincoln University

Institution application code: GMO02/LU001

Purpose: To gain approval for the cloning of genes, introns or intergenic regions from mycorrhiza into *Escherichia coli* (K12 derived) in order to use the replicative ability of *Escherichia coli* to produce sufficient quantities of the donor nucleic acid for DNA sequencing

ERMA Approval code(s): GMD002149

Description of organism: *Escherichia coli* INV alpha, pGEM®-T, vesicular arbuscular mycorrhiza genes modified with non conjugative pGEM®-T vectors including pGEM®-T (3003 bp) and pGEM®-T Easy (3018 bp)

Decision: Approved with controls (PC1 and PC2)

Applicant: Massey University

Institution application code: GMO02/MU006

Purpose: To introduce a plasmid containing dog estrogen receptor cDNA or part thereof into an *Escherichia coli* host for the purposes of plasmid propagation

ERMA Approval code(s): GMD002150

Description of organism: *Escherichia coli* modified with dog RNA

Decision: Approved with controls (PC1)

Applicant: Massey University

Institution application code: GMO02/MU009

Purpose: To develop in containment genetically modified strains of *Escherichia coli*, *P. paxilli* and PN2262 to elucidate a biochemical pathway for biosynthesis of an indole-diterpene. This is an update of GMO00/MU057

ERMA Approval code(s): GMD002151

Description of organism: *Escherichia coli* modified with fungus PN2262, *Aspergillus* spp, *Neurospora crassa*

Decision: Approved with controls (PC2)

Applicant: University of Auckland

Institution application code: GMO01/UA042

Purpose: To characterise genes involved in hearing and balance. This is an update of GMO99/UA015 where a new cloning vector (TOPO) is used.

ERMA Approval code(s): GMD002153-2155

Description of organism: *Escherichia coli* (K12 strains), HEK293 cell line and *Critecus griseus* cell lines as modified by genes encoding transmitter receptors and nucleotide hydrolysing enzymes

Decision: Approved with controls (PC1)

Applicant: University of Auckland

Institution application code: GMO02/UA005A

Purpose: To place the Hsp27 gene under inducible expression control. To expand initial project to make both GFP and RFP Hsp27 fusion proteins to undertake intracellular localisation studies of Hsp27 to anticancer drug treatment. This is an update of GMO99/UA011

ERMA Approval code(s): GMD002157-2158

Description of organism: *Escherichia coli* and mammalian cell lines from human and murine modified by vector DNA from commercial sources - pVgRXR Invitrogen (cat#K1001-01), pIND* Invitrogen (cat#K1001-01), PIND/lacZ Invitrogen (cat#K1001/01), pcDNA3.1/CT-GFP-TOPO* Invitrogen (cat#K4820-01), pDsRed1-N1* Clontech (cat6921-1)

Decision: Approved with controls (PC1)

Applicant: University of Auckland

Institution application code: GMO02/UA010

Purpose: To study the biological processes that regulates nerve and endocrine cell growth and survival. Update of GMO00/UA068 and GMO00/UA055

ERMA Approval code(s): GND002159-2162

Description of organism: *Escherichia coli* K12 and B derivative non-conjugative strains and mammalian cells *Homo sapiens* (human), *Mus musculus* (mouse) and *Rattus norvegicus* (rat) as modified by chimaeric, disabled and

replication deficient AAV vector plasmids with the following inserts:

1. Serotype-specific capsid proteins
2. human (*Homo sapiens*) mouse (*Mus musculus*) and rat (*Rattus norvegicus*) neuroserpin and neuroserpin mutants
3. Reporter genes
4. Epitope tagged neuroserpin, neuroserpin construct and reporter gene constructs as modified by chimaeric, disabled and replication deficient AAV vector plasmids with the following inserts:

Decision: Approved with controls (PC1, PC2)

Applicant: University of Auckland

Institution application code: GMO01/UA033A

Purpose: To study the molecular mechanisms involved in obesity and type II diabetes. This is an update of GMO00/UA041

ERMA Approval code(s): GMD002156

Description of organism: *Escherichia coli* (strain K12) as modified by pcDNAneo 1 or 3, or pGL3 vectors containing melacortin receptor DNA, angiotensin II and related G-protein coupled receptor DNA, pSV-beta-Gal, and pbeta-actin-luciferase.

Decision: Approved with controls (PC1)

Applicant: University of Auckland

Institution application code: GMO01/UA032

Purpose: To study evolution of chromosomes in *Nemesia* (ornamental garden plant from Scrophulariaceae family)

ERMA Approval code(s): GMD002152

Description of organism: *Escherichia coli* K12 and B strains modified using non-conjugative plasmid vectors with inserts containing pcr fragments of the reverse transcriptase (RT) domain of copia-like retrotransposons from *Nemesia*, or with inserts containing fragments of the intergrase (IN) domain of Ty3-gypsy retrotransposons from *Nemesia*

Decision: Approved with controls (PC1)

HAZARDOUS SUBSTANCES

NOTIFIED APPLICATIONS RECEIVED AND OPEN FOR SUBMISSIONS

Application Code: HSR02029

Applicant: Virbac Laboratories NZ Limited

Purpose: To import for release an endectocide (VBPOC) for use on production animals

Date Application Received: 17 June 2002

Date Publicly Notified: 29 June 2002

Date Submissions Close: 9 August 2002

Application Code: HSR02030

Applicant: Parnell Laboratories (NZ) Ltd

Purpose: Aquafol is a Prescription Animal Remedy intended for use as an anaesthetic agent in dogs and cats. The active ingredient is propofol 1%, an agent that is widely used in human medicine for anaesthesia and sedation

Date Application Received: 25 June 2002

Date Publicly Notified: 6 July 2002

Date Submissions Close: 16 August 2002

Application Code: HSR02027

Applicant: Reckitt Benckiser (NZ) Limited

Purpose: To import a hazardous substance, RB-2-103, a cleaner for domestic use.

Date Application Received: 27 June 2002

(yet to be verified before it is publicly notified)

NON NOTIFIED APPLICATIONS RECEIVED

Application Code: HSR02023

Applicant: Reckitt Benckiser (NZ) Limited

Purpose: To import RB-2-104 for use as a domestic cleaner on hard surfaces

Date Application Received: 13 June 2002

Application Code: HSR02024

Applicant: Reckitt Benckiser (NZ) Limited

Purpose: To import RB-2-101 for use as a domestic carpet-stain removing product

Date Application Received: 13 June 2002

Application Code: HSR02025

Applicant: Reckitt Benckiser (NZ) Limited

Purpose: To import RB-2-102 for use as a domestic cleaning agent

Date Application Received: 13 June 2002

Application Code: HSR02018

Applicant: Stretchmaster Products NZ Ltd

Purpose: To import into New Zealand Formula 12 as an air freshener liquid refill for electric device

Date Application Received: 17 June 2002

DECISIONS ON APPLICATIONS

The Environmental Risk Management Authority reached a decision on the following application on 1 May 2002

Application Code: RES01001

Applicant: Living Earth Limited

Purpose: Application to decide whether there are Grounds for Reassessment of clopyralid based herbicides

Description of Substances: Clopyralid-based herbicides

Decision: Grounds Exist for Reassessment

ERMA Approval Code: RES000002

The Environmental Risk Management Authority reached a decision on the following application on 27 May 2002

Application Code: RES02002

Applicant: ERMA New Zealand

Purpose: To determine whether grounds exist for reassessment of methylated spirits (ethanol denatured with methanol)

Description of Substances: Methylated spirits

Decision: Grounds Exist for Reassessment

ERMA Approval Code: RES000003

The Environmental Risk Management Authority reached a decision on the following application on 20 June 2002

Application Code: HSC02001

Applicant: Virbac Laboratories (NZ) Limited

Purpose: To field test VBPOC to assess the efficacy of the substance in controlling lice in cattle

Description of Substances: VBPOC

Decision: Approved with Controls

ERMA Approval Code: HSC000009

Controls:

1. To limit the likelihood of escape of any contained hazardous substance or contamination by hazardous substance

- 1.1 The trials shall be undertaken within a containment facility in accordance with the Project Plan and Management Plan which accompanied the application except where the following controls direct otherwise. Modifications of the Project Plan or Management Plan may be approved in writing by ERMA New Zealand providing that they comply with the following controls.
- 1.2 The substance will be applied by way of drench equipment directly to the backs of animals held in specifically-designated and marked areas.
- 1.3 The site chosen will not be contiguous to any water source.

- 1.4 Application to animals must not be made in rainy conditions.
- 1.5 The trial site must be at least 50 metres from buildings where people live or work (commercial and research glasshouses being an exception).
- 1.6 NZS 8409:1999 *Code of Practice for the Management of Agrichemicals* shall be adhered to at all times during use of the substance.
- 1.7 No treated animals shall be consumed by people or animals or offered for sale before expiry of the withholding period specified for the reference material.
- 1.8 The product is not to be used on lactating animals or within 28 days of calving.
- 1.9 Access to the sites(s) is by permission of the Trial Director or owner of the property on which it is located. The site(s) will be secured by stock proof fencing to avoid escape and prevent other animals getting in and all potential access points shall be signed indicating that unauthorised access is not allowed, that the site is subject to a trial.
- 1.10 The substance will be securely packed in containers being identified in accordance with the *Hazardous Substances (Identification) Regulations 2001* and a MSDS will accompany each shipment.
- 1.11 The transportation of the substance will comply with The Land Transport Rule: Dangerous Goods 1999
- 1.12 Any portion of the substance surplus to requirements will be retained in the original packaging and exported back to the point of origin.
- 1.13 The trial site boundaries will be clearly marked and distinctly visible from outside the trial site throughout the life of the trial.

2. To exclude organisms or control organisms

- 2.1 Grazing animals other than those being treated in the trial must be excluded from all trial sites including for the duration of the trial period and relevant withholding period.

3. To exclude unauthorised people

- 3.1 Access to the trial site will be controlled by locked barrier. Any person entering the site must report to either the Trial Director or farm manager with delegated authority to manage site security for this trial.
- 3.2 A log of all persons accessing the trial containment facilities shall be maintained and be available for inspection by the Trial Director.

4. To prevent unintended release of the substance by experimenters working with the substance

- 4.1 Unused material will be retained in the original packaging. Handling and disposal of any wastes will be carried out in such a way as to minimise any environmental impact within the containment site.
- 4.2 Drench equipment used to administer the substance will be rinsed after use with an appropriate detergent. The rinsate will be disposed of by dilution and dispersal within a non-grazed area of the site.
- 4.3 Use of secure labelled containers will be standard procedure.
- 4.4 The dispensing, if any, of the substance from the original imported container will be in a controlled environment to minimise inadvertent release, spillage, and unnecessary exposure.

5. To control the effects of any accidental release of the substance

- 5.1 Any accidental spillage of the substance shall be contained and then either diluted with water, sand or earth, and then spread over a marked and designated non-grazed area at the site.
- 5.2 To minimise the effects of any accidental release of the substance, the container label will carry appropriate safety precautions and relevant first aid measures for immediate action pending medical attention.
- 5.3 Normal precautions for personal protection will be observed should an accidental release and exposure occur, such as the careful washing of hands, face and clothing.

6. Inspection and monitoring requirements

- 6.1 The Trial Director is required to keep track of all use of the substance as per section 5.9.1 of *Code of Practice for the Management of Agrichemicals NZS8409:1999*
- 6.2 Occupational Safety and Health⁷ (OSH) and ERMA New Zealand are to be informed in writing of the locations, start, and completion of the field trials.
- 6.3 If for any reason a breach of containment occurs, the Trial Director will notify OSH and ERMA New Zealand immediately the event is noticed (and at least within 24 hours after the breach being detected).
- 6.4 The Authority or its authorised agent or properly authorised enforcement officers, may inspect the facilities and trial sites at any reasonable time
- 6.5 The applicant shall provide a completion report to ERMA New Zealand and OSH within four months of the end of the trial.

7. Qualifications required of the person responsible for implementing the controls

- 7.1 The Trial Director shall ensure that personnel applying the substance demonstrate their knowledge of the application of NZS 8409:1999 *Code of Practice for the Management of Agrichemicals* prior to commencement of the trial.

The Environmental Risk Management Authority reached a decision on the following application on 20 June 2002

Application code: HSR02001

Applicant: Osmose New Zealand

Purpose: To manufacture a combination fungicide/insecticide treatment for timber and wood products

Description of Substances: Protimum Optimum

Decision: Approved with Controls

ERMA Approval Code: HSR000006

Controls:

Control Code ⁸	Regulation ⁹
Code	Hazardous Substances (Classes 1 – 5 Controls) Regulations 2001
F1	Regulation 7 General test certification requirements for all class 1 to 5 substances <i>(See also substitute controls at the end of these controls)</i>
F2	Regulation 8 General public transportation restrictions and requirements for all class 1 to 5 substances <i>(See also substitute controls at the end of these controls)</i>

⁷ Head Office, Attention HSNO Project Manager (or equivalent position)

⁸ Note: The numbering system used in this column relates to the coding system used in the ERMA New Zealand Controls Matrix. This links the hazard classification categories to the regulatory controls triggered by each category. It is available from ERMA New Zealand and is also contained in the ERMA New Zealand *User Guide to the Controls Regulations*.

⁹ These regulations form the controls applicable to this substance. Refer to the cited regulations for the formal specification, and for definitions and exemptions.

F3	Regulation 55	General limits on flammable substances <i>(See also substitute controls at the end of these controls)</i>
F5	Regulations 58 – 59	Requirements regarding hazardous atmosphere zones for flammable liquids (3.1) <i>(See also substitute controls at the end of these controls)</i>
F6	Regulations 60 – 70	Requirements to prevent unintended ignition of flammable gases (2.1.1) aerosols (2.1.2) and liquids (3.1) <i>(See also substitute controls at the end of these controls)</i>
F11	Regulation 76	Segregation of incompatible substances <i>(See also substitute controls at the end of these controls)</i>
F12	Regulations 77 – 78	General requirement for hazardous substance locations for flammable substances <i>(See also substitute controls at the end of these controls)</i>
F14	Regulation 81	Test certification requirements for facilities where class 2.1.1, 2.1.2 or 3.1 substances are present <i>(See also substitute controls at the end of these controls)</i>
F16	Regulation 83	Controls on transit depots where flammable substances are present <i>(See also substitute controls at the end of these controls)</i>
F17	Regulations 84 – 85	Requirements to control adverse effects of intended ignition of flammable substances, including requirements for protective equipment and clothing <i>(See also substitute controls at the end of these controls)</i>
Code	Dangerous Goods Regulations	
Substitute Control	<p>Until such time as the HSNO Tank Wagon Regulations come into force, the provisions of the Dangerous Goods Regulations relating to the transportation of flammable liquids in tank wagons must be complied with.</p> <p>Until such time as the HSNO Bulk Storage Tanks Regulations come into force, the provisions of the Dangerous Goods Regulations relating to the storage of flammable liquids in bulk must be complied with.</p> <p>If the substance is kept at a facility already subject to the Dangerous Goods (Class Three-Flammable Liquids) and the Dangerous Goods (licensing fees) Regulations, including the requirement to have a dangerous goods license, these regulations apply in place of the requirement to obtain a test certificate under control F1 – F17 (above) until the class three flammable liquids are deemed assessed and approved by regulations under section 160(1)(a) of the HSNO Act.</p>	
Code	Hazardous Substances (Classes 6, 8 and 9 Controls) Regulations 2001 – Toxic Property Controls	
T1	Regulations 11 – 27	Limiting exposure to toxic substances

T2	Regulations 29, 30	Controlling exposure in places of work
T4	Regulation 7	Requirements for equipment used to handle substances
T5	Regulation 8	Requirements for protective clothing and equipment
T7	Regulation 10	Restrictions on the carriage of hazardous substances on passenger service vehicles
Code	Hazardous Substances (Classes 6, 8 and 9 Controls) Regulations 2001 – Ecotoxic Property Controls	
E1	Regulations 32 – 45	Limiting exposure to ecotoxic substances
E3	Regulation 49	Controls relating to protection of terrestrial invertebrates eg beneficial insects
E5	Regulations 5, 6	Requirements for keeping records of use
E6	Regulation 7	Requirements for equipment used to handle substances
E7	Regulation 9	Approved handler requirements
E8	Regulation 10	Restrictions on the carriage of hazardous substances on passenger service vehicles
Code	Hazardous Substances (Identification) Regulations 2001	
I1	Regulations 6, 7, 32 – 35, 36 (1)-(7)	General identification requirements Regulation 6 – Identification duties of suppliers Regulation 7 – Identification duties of persons in charge Regulations 32 and 33 – Accessibility of information Regulations 34, 35, 36(1) – (7) – Comprehensibility, Clarity and Durability of information
I3	Regulation 9	Priority identifiers for ecotoxic substances
I5	Regulation 11	Priority identifiers for flammable substances
I8	Regulation 14	Priority identifiers for toxic substances
I9	Regulation 18	Secondary identifiers for all hazardous substance
I11	Regulation 20	Secondary identifiers for ecotoxic substances
I13	Regulation 22	Secondary identifiers for flammable substances
I16	Regulation 25	Secondary identifiers for toxic substances
I17	Regulation 26	Use of Generic Names

I18	Regulation 27	Requirements for using concentration ranges
I19	Regulations 29 – 31	Alternative information in certain cases
I21	Regulations 37 – 39, 47 – 50	Documentation required in places of work Regulation 37 – Documentation duties of suppliers Regulation 38 – Documentation duties of persons in charge of places of work Regulation 39 – General content requirements for documentation Regulation 48 – Location and presentation requirements for documentation Regulation 49 – Documentation requirements for vehicles Regulation 50 – Documentation to be supplied on request
I23	Regulation 41	Specific documentation requirements for ecotoxic substances
I25	Regulation 43	Specific documentation requirements for flammable substances
I28	Regulation 46	Specific documentation requirements for toxic substances
I29	Regulations 51 – 52	Duties of persons in charge of places in respect of signage
I30	Regulation 53	Advertising corrosive and toxic substances
Code	Hazardous Substances (Packaging) Regulations 2001	
P1	Regulations 5, 6, 7 (1), 8	General packaging requirements Regulation 5 – Ability to retain contents Regulation 6 – Packaging markings Regulation 7(1) – Requirements when packing hazardous substance Regulation 8 – Compatibility
P3	Regulation 9	Requirement for substances packed in limited quantities
P5	Regulation 11	Packaging requirements for flammable liquids (subclass 3.1)
PG3	Schedule 3	Test methods for packaging
Code	Hazardous Substances (Disposal) Regulations 2001	
D2	Regulation 6	Disposal requirements for flammable substances
D4	Regulation 8	Disposal requirements for toxic and corrosive substances
D5	Regulation 9	Disposal requirements for ecotoxic substances
D6	Regulation 10	Disposal requirements for packages

D7	Regulations 11, 12	Information requirements
D8	Regulations 13, 14	Documentation requirements
Code	Hazardous Substances (Emergency Management) Regulations 2001	
EM1	Regulations 6, 7, 9 – 11	Level 1 emergency management information: General requirements
EM4	Regulation 8(c)	Additional information requirements for flammable substances
M6	Regulation 8(e)	Information requirements for toxic substances
EM7	Regulation 8(f)	Information requirements for ecotoxic substances
EM8	Regulations 12 – 16, 18 – 20	Level 2 emergency management information requirements
EM9	Regulation 17	Extra content for flammable and oxidising substances and organic peroxides
EM10	Regulations 21 – 24	Fire extinguishers
EM11	Regulations 25 – 34	Level 3 emergency management requirements – emergency response plans
EM12	Regulations 35 – 41	Level 3 emergency management requirements – secondary containment
EM13	Regulation 42	Level 3 emergency management requirements – signage
Code	Hazardous Substances (Personnel Qualification) Regulations 2001	
AH1	Regulations 4 – 6	Approved Handler requirements (including test certificate and qualification requirements)
Code	Hazardous Substances (Tracking) Regulations 2001	
TR1	Regulations 4(1), 5, 6	General tracking requirements
Code	Dangerous Goods Regulations	

The Environmental Risk Management Authority reached a decision on the following application on 20 June 2002

Application Code: HSR02002

Applicant: Koppers Arch Wood Protection NZ Ltd

Purpose: To manufacture a combination fungicide/insecticide plus water repellent treatment for timber and wood products

Description of Substances: Vacsol Azure

Decision: Approved with Controls

ERMA Approval Code: HSR000007

Controls:

Control Code ¹⁰	Regulation ¹¹
Code	Hazardous Substances (Classes 1 – 5 Controls) Regulations 2001
F1	Regulation 7 General test certification requirements for all class 1 to 5 substances <i>(See also substitute controls at the end of these controls)</i>
F2	Regulation 8 General public transportation restrictions and requirements for all class 1 to 5 substances <i>(See also substitute controls at the end of these controls)</i>
F3	Regulation 55 General limits on flammable substances <i>(See also substitute controls at the end of these controls)</i>
F5	Regulations 58 – 59 Requirements regarding hazardous atmosphere zones for flammable liquids (3.1) <i>(See also substitute controls at the end of these controls)</i>
F6	Regulations 60 – 70 Requirements to prevent unintended ignition of flammable gases (2.1.1) aerosols (2.1.2) and liquids (3.1) <i>(See also substitute controls at the end of these controls)</i>
F11	Regulation 76 Segregation of incompatible substances <i>(See also substitute controls at the end of these controls)</i>
F12	Regulations 77 – 78 General requirement for hazardous substance locations for flammable substances <i>(See also substitute controls at the end of these controls)</i>
F14	Regulation 81 Test certification requirements for facilities where class 2.1.1, 2.1.2 or 3.1 substances are present <i>(See also substitute controls at the end of these controls)</i>
F16	Regulation 83 Controls on transit depots where flammable substances are present <i>(See also substitute controls at the end of these controls)</i>
F17	Regulations 84 – 85 Requirements to control adverse effects of intended ignition of flammable substances, including requirements for protective equipment and clothing <i>(See also substitute controls at the end of these controls)</i>
Substitute Control	<p>Until such time as the HSNO Tank Wagon Regulations come into force, the provisions of the Dangerous Goods Regulations relating to the transportation of flammable liquids in tank wagons must be complied with.</p> <p>Until such time as the HSNO Bulk Storage Tanks Regulations come into force, the provisions of the Dangerous Goods Regulations relating to the storage of flammable liquids in bulk must be complied with.</p>

10 Note: The numbering system used in this column relates to the coding system used in the ERMA New Zealand Controls Matrix. This links the hazard classification categories to the regulatory controls triggered by each category. It is available from ERMA New Zealand and is also contained in the ERMA New Zealand *User Guide to the Controls Regulations*.

11 These regulations form the controls applicable to this substance. Refer to the cited regulations for the formal specification, and for definitions and exemptions.

		If the substance is kept at a facility already subject to the Dangerous Goods (Class Three-Flammable Liquids) and the Dangerous Goods (licensing fees) Regulations, including the requirement to have a dangerous goods license, these regulations apply in place of the requirement to obtain a test certificate under control F1 – F17 (above) until the class three flammable liquids are deemed assessed and approved by regulations under section 160(1)(a) of the HSNO Act.
Code	Hazardous Substances (Classes 6, 8 and 9 Controls) Regulations 2001 – Toxic Property Controls	
T1	Regulations 11 – 27	Limiting exposure to toxic substances
T2	Regulations 29, 30	Controlling exposure in places of work
T4	Regulation 7	Requirements for equipment used to handle substances
T5	Regulation 8	Requirements for protective clothing and equipment
T7	Regulation 10	Restrictions on the carriage of hazardous substances on passenger service vehicles
E1	Regulations 32 – 45	Limiting exposure to ecotoxic substances
E3	Regulation 49	Controls relating to protection of terrestrial invertebrates
E5	Regulations 5, 6	Requirements for keeping records of use
E6	Regulation 7	Requirements for equipment used to handle substances
E7	Regulation 9	Approved handler requirements
E8	Regulation 10	Restrictions on the carriage of hazardous substances on passenger service vehicles
Code	Hazardous Substances (Identification) Regulations 2001	
13	Regulation 9	Priority Identifiers for ecotoxic substances
I1	Regulations 7, 32 – 35, 36 (1) – (7)	General identification requirements Regulation 6 – Identification duties of suppliers Regulation 7 – Identification duties of persons in charge Regulations 32 and 33 – Accessibility of information Regulations 34, 35, 36(1) – (7) – Comprehensibility, Clarity and Durability of information
I5	Regulation 11	Priority identifiers for flammable substances
I8	Regulation 14	Priority identifiers for toxic substances
I9	Regulation 18	Secondary identifiers for all hazardous substance
I11	Regulation 20	Secondary identifiers for ecotoxic substances

I13	Regulation 22	Secondary identifiers for flammable substances
I16	Regulation 25	Secondary identifiers for toxic substances
I17	Regulation 26	Use of Generic Names
I18	Regulation 27	Requirements for using concentration ranges
I19	Regulations 29 – 31	Alternative information in certain cases
I21	Regulations 37 – 39, 47 – 50	Documentation required in places of work Regulation 37 – Documentation duties of suppliers Regulation 38 – Documentation duties of persons in charge of places of work Regulation 39 – General content requirements for documentation Regulation 48 – Location and presentation requirements for documentation Regulation 49 – Documentation requirements for vehicles Regulation 50 – Documentation to be supplied on request
I23	Regulation 41	Specific documentation requirements for ecotoxic substances
I25	Regulation 43	Specific documentation requirements for flammable substances
I28	Regulation 46	Specific documentation requirements for toxic substances
I29	Regulations 51 – 52	Duties of persons in charge of places in respect of signage
I30	Regulation 53	Advertising corrosive and toxic substances
Code	Hazardous Substances (Packaging) Regulations 2001	
P1	Regulations 5, 6, 7 (1), 8	General packaging requirements Regulation 5 – Ability to retain contents Regulation 6 – Packaging markings Regulation 7(1) – Requirements when packing hazardous substance Regulation 8 – Compatibility
P3	Regulation 9	Requirement for substances packed in limited quantities
P5	Regulation 11	Packaging requirements for flammable liquids (subclass 3.1)
PG3	Schedule 3	Test methods for packaging
Code	Hazardous Substances (Disposal) Regulations 2001	
D2	Regulation 6	Disposal requirements for flammable substances

D4	Regulation 8	Disposal requirements for toxic and corrosive substances
D5	Regulation 9	Disposal requirements for ecotoxic substances
D6	Regulation 10	Disposal requirements for packages
D7	Regulations 11, 12	Information requirements
D8	Regulations 13, 14	Documentation requirements
Code	Hazardous Substances (Emergency Management) Regulations 2001	
EM1	Regulations 6, 7, 9 – 11	Level 1 emergency management information: General requirements
M4	Regulation 8(c)	Additional information requirements for flammable substances
EM6	Regulation 8(e)	Information requirements for toxic substances
EM7	Regulation 8(f)	Information requirements for ecotoxic substances
EM8	Regulations 12 – 16, 18 – 20	Level 2 emergency management information requirements
EM9	Regulation 17	Extra content for flammable and oxidising substances and organic peroxides
EM10	Regulations 21 -24	Fire extinguishers
EM11	Regulations 25 – 34	Level 3 emergency management requirements – emergency response plans
EM12	Regulations 35 – 41	Level 3 emergency management requirements – secondary containment
EM13	Regulation 42	Level 3 emergency management requirements – signage
Code	Hazardous Substances (Personnel Qualification) Regulations 2001	
AH1	Regulations 4 – 6	Approved Handler requirements (including test certificate and qualification requirements)
Code	Hazardous Substances (Tracking) Regulations 2001	

TR1	Regulations 4(1), 5, 6	General tracking requirements
Code	Dangerous Goods Regulations	

The Environmental Risk Management Authority reached a decision on the following application on 24 June 2002

Application Code: HSC02003

Applicant: Industrial Research Limited

Purpose: To manufacture small quantities of substances by chemical synthesis for drug discovery research

Description of Substances: IRL Glycotherapeutics 0001a

IRL Glycotherapeutics 0001b

IRL Glycotherapeutics 0001c

IRL Glycotherapeutics 0001d

IRL Glycotherapeutics 0001

IRL Glycotherapeutics 0002

IRL Glycotherapeutics 0003

IRL Glycotherapeutics 0004

Decision: Approved with Controls

ERMA Approval Code: HSC000002- HSC000008

Controls:

- 7.1 The substances shall be retained within laboratories in accordance with control 2 unless being transported between laboratories in accordance with control 3.
- 7.2 The laboratory of manufacture and of analysis shall each comply with the Hazardous Substances (Exempt Laboratories) Regulations 2001.
- 7.3 When being transported between laboratories, the substances shall be securely packaged so as to prevent the escape of the substance. The primary container shall be packaged within a secondary container which is sufficient to control any release should the primary container leak. The package shall be labelled to indicate that it contains laboratory samples.

DELEGATED AUTHORITY

The Chief Executive of the Environment Risk Management Authority, acting under delegated power from the Authority, reached a decision on the following application on 10 June 2002

Application Code: HSR02003

Applicant: Bayer New Zealand Ltd

Purpose: To import for release a fungicide TELDOR containing the active ingredient fenhexamid for spraying on grapes, strawberries and boysenberries to control a fungal disease *Botrytis cinerea*

Description of Substances: Teldor

Decision: Approved with Controls

ERMA Approval Code: HSR000008

Controls:

The Controls imposed on TELDOR are as follows.

The regulations cited should be referred to for definitions and exemptions, and the ERMA New Zealand publication *User Guide to HSNO Control Regulations* provides useful guidance on the controls.

Control Code ¹²	Regulation ¹³
Code	Hazardous Substances (Classes 6, 8 and 9 Controls) Regulations 2001
E2	Regulations 46 – 48 Restrictions on use within application area
E6	Regulation 7 Requirements for equipment used to handle substances
E8	Regulation 10 Restrictions on the carriage of hazardous substances on passenger service vehicles

¹² Note: The numbering system used in this column relates to the coding system used in the ERMA New Zealand Controls Matrix. This links the hazard classification categories to the regulatory controls triggered by each category. It is available from ERMA New Zealand and is also contained in the ERMA New Zealand *User Guide to the Controls Regulations*.

¹³ These regulations form the controls applicable to this substance. Refer to the cited regulations for the formal specification, and for definitions and exemptions.

Code		Hazardous Substances (Identification) Regulations 2001
I1	Regulations 6, 7, 33 – 35, 36 (1) – (7)	Regulation 6 – Identification duties of suppliers Regulation 7 – Identification duties of persons in charge Regulations 32 and 33 – Accessibility of information Regulations 34, 35, 36(1) – (7) – Comprehensibility, Clarity and Durability of information
I9	Regulation 18 (a) and (b)	Secondary identifiers for all hazardous substances—
I11	Regulation 20 (a), (b) and (c)	Secondary identifiers for ecotoxic substances—
I19	Regulations 29 – 31	Alternative information in certain cases
I21	Regulations	Documentation required in places of work Regulation 37 – Documentation duties of suppliers Regulation 50 – Documentation to be supplied on request Regulation 38 – Documentation duties of persons in charge of places of work Regulation 39 – General content requirements for documentation.
I29	Regulations 51 and 52	Requirements for signage
Code		Hazardous Substances (Packaging) Regulations 2001
P1	Regulations 5, 6, 7 (1), 8	General packaging requirements Regulation 5 – Ability to retain contents Regulation 6 – Packaging markings Regulation 7(1) – Requirements when packing hazardous substance Regulation 8 – Compatibility
P3	Regulation 9	Packaging
P15	Regulation 21	Packaging
Code		Hazardous Substances (Disposal) Regulations 2001
D5	Regulation 9	Disposal methods
D6	Regulation 10	Disposal requirements for packages
D7	Regulations 11, 12	Information

D8	Regulations 13, 14	Documentation about disposal
Code	Hazardous Substances (Emergency Management) Regulations 2001	
EM1	Regulations 6, 7, 9 – 11	Emergency management information
EM7	Regulation 8(f)	Information requirements for ecotoxic substances
EM8	Regulations 12 – 16, 18 – 20	Level 2 information requirements for suppliers and persons in charge
EM11	Regulations	Level 3 emergency management requirements – emergency response plans
EM12	Regulations 35 – 41	Level 3 emergency management requirements – secondary containment
EM13	Regulation 42	Level 3 emergency management requirements – signage

TEST CERTIFIERS

The Chief Executive of the Environmental Risk Management Authority, acting under delegated power from the Authority, reached a decision on the following applications on 7 June 2002

Application Code: TST02008

Applicant: Roy Jackson

Address: 9 Tinopai Drive
Omokoroa
Tauranga

Decision: Approved with Controls

ERMA Approval Code: TST000007

Requirements for which a test certificate may be issued, and limitations

Facilities, locations etc:

- Containers for securing class 1 substances
- Locations where class 1 substances are present
- The detonation or deflagration of class 1 substances in darkness
- The level of blast overpressure and heat radiation in the detonation or deflagration of class 1 substances in other than the film and video industry.
- Outdoor pyrotechnic displays
- The transfer of class 1 substances in darkness
- The testing of fireworks
- Locations where class 2 to 5 substances are present

The approval excludes approved handlers in control of:

- Class 1 substances
- Outdoor pyrotechnic displays
- The detonation or deflagration of class 1 substances
- The disposal of deteriorated, damaged, defective or unsafe class 1 substances or explosives no longer required for use
- The transfer of class 1 substances
- Class 1 substances being transported by road or rail
- Class 2 to 5 substances
- Class 8 substances

Limitations:

The test certificates relating to the detonation or deflagration of class 1 substances are limited to the following fields:

- Avalanche control
- Agricultural and forestry use
- Construction blasting
- Seismic work

AUTHORITY REVISES PUBLIC NOTIFICATION METHODS

The Authority has recently reviewed the method it uses to publicly notify applications for approval and decisions under the HSNO Act and the new revisions come into play on 1 July 2002.

Feedback from stakeholders was in agreement with the Authority's view that reliance on public notices in the newspaper was costly, and was not a particularly useful means of advising interested parties and the public about applications which are open for submissions, nor of advising of decisions made.

The means of publicly notifying applications will now comprise the following elements:

- A brief announcement will be placed in the four main newspapers. This will be a brief 'alert' which refers the public to the sources of further information.
- A full public notice will be placed on our website (This will also be sent to all those on our list of people who have advised us that they have an interest in the type of application in question.)
- Notice will be published in local newspapers where a notified application is location specific (eg a GMO field trial).

We want to extend our application interest list to include everyone with a particular interest in each different type of application. We intend also to implement an email alert system to advise interested parties when an application they are interested in is notified. If you wish to be included, please contact info@ermanız.govt.nz.

These are extensions of measures we have already been using informally. Now that the Act has been amended to give the Authority discretion as to how applications are formally notified, they can be brought together as a means of providing effective public notification at reasonable cost.

The Authority has also decided to discontinue notifying decisions in the newspapers. Feedback showed that this served little purpose, so decisions will now be advised directly to the interested parties, and will be posted on our website and published in *The Bulletin*.

Finally, we thank the 111 stakeholders who took the time to make submissions in the consultation phase of this review. A summary of submissions can be viewed on www.ermanız.govt.nz under the consultation page.

ERRATUM IN BULLETIN 33

In the case study 'Interpretation of the Regulations for Classification 9.3A: Substances that are very ecotoxic to terrestrial vertebrates', the reference to Criteria3(b) should read that a 9.3 classification applies to a substance if:

- Data indicate an acute avian or mammalian LC50 less than or equal to 500 ppm of the substance in the diet, and not 5000 ppm.