

ENVIRONMENTAL RISK MANAGEMENT AUTHORITY

THE BULLETIN

The Bulletin is published eleven times per year. It is a listing of applications being processed and the Authority's decisions as well as other activities under the Hazardous Substances and New Organisms (HSNO) Act. The public register is the official record of all applications received and any controls attached to approvals and may be viewed at our Wellington office.

Alternatively, you may view the applications and associated documents on the ERMA New Zealand website: www.ermanz.govt.nz

NEW ORGANISMS

NOTIFIED APPLICATIONS RECEIVED AND OPEN FOR SUBMISSIONS

The applications in the Bulletin are for reference only. Our public notification process includes alerts in four main daily newspapers with full information and submission forms available on our website.

To ensure that you are advised directly about applications open for public submission contact us at info@ermanz.govt.nz to be added to our interested party list. You will need to nominate the types of applications that you are interested in.

There are currently no notified applications open for submission

NON-NOTIFIED APPLICATIONS RECEIVED

Applicant: Victoria University of Wellington

Application Code: NOC04016

Purpose: To import into containment samples of Antarctic water (both fresh and marine in all states) and soil, sediments and rocks containing unidentified microorganisms for identification and long term culture

Date Formally Received: 23 September 2004

Applicant: Auckland Zoological Park

Application Code: NOC04014

Purpose: Importation of 20 Superb Starlings *Lamprotornis superbus* into containment at Auckland Zoo for demonstration of avian biodiversity and principles of conservation through exhibition to the public

Date Formally Received: 08 October 2004

Applicant: Wade Cornell Diversified Forests Limited

Application Code: S2604017

Purpose: To determine that *Eucalyptus longirostrata* is a synonym of *Eucalyptus punctata* and *Corymbia henryi* is a synonym of *Corymbia maculata* and therefore are not new organisms

Date Formally Received: 04 October 2004

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

ERMA NEW ZEALAND

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ENVIRONMENTAL RISK MANAGEMENT AUTHORITY
NGĀ KAIWHAKATŪPATO WHAKARARU TAIAO



DECISIONS ON APPLICATIONS

**Applicant: Cactus and Succulent Society
New Zealand (CSSNZ)**

Application Code: S2604016

Purpose: To have a number of species and their synonyms in the genus *Faucaria* determined to be not new organisms under Section 26 of the HSNO Act

Decision Notified: 08 October 2004

Description of Organisms:

Faucaria haagei Tischer 1929
Faucaria kendrewensis L.Bolus 1934
Faucaria peersii L.Bolus 1937
Faucaria coronata L.Bolus 1934
Faucaria acutipetala L.Bolus 1934
Faucaria crassisepala L.Bolus 1934
Faucaria duncanii L.Bolus 1933
Faucaria jamesii L.Bolus ex Tischer 1934
Faucaria kingiae L.Bolus 1937
Faucaria latipetala L.Bolus 1934
Faucaria laxipetala L.Bolus 1934
Faucaria longidens L.Bolus 1934
Faucaria longifolia L.Bolus 1934
Faucaria militaris Tischer 1932
Faucaria montana L.Bolus 1934
Faucaria multidens L.Bolus 1934
Faucaria ryneveldiae L.Bolus 1934
Faucaria uniondalensis L.Bolus 1937
Faucaria gratiae L.Bolus 1933

Decision: Determined to be not new organisms

**Applicant: Institute of Geological and
Nuclear Sciences**

Application Code: NOC04013

Purpose: To import sediments and fluids that may contain unidentified and potentially novel microorganisms from hydrothermal marine vents and adjacent areas, for the purpose of biodiversity, ecology and biotechnology studies

Decision Notified: 20 October 2004

Description of Organisms: Prokaryotic microorganisms (primarily bacteria and archaea) present in soils/sediments and fluids taken from hydrothermal vent systems including:

Microbial genus and species name	
<i>Aquifex</i>	<i>pyrophilus</i>
<i>Balnearium</i>	<i>lithotrophicum</i>
<i>Caminibacter</i>	<i>hydrogeniphilus</i>
	<i>profundus</i>
<i>Caminicella</i>	<i>sporogenes</i>
<i>Carboxydotherrmus</i>	<i>restrictus</i>
<i>Catenococcus</i>	<i>thiocyclus</i>
<i>Clostridium</i>	<i>caminithermale</i>
<i>Deferribacter</i>	<i>abyssi</i>
	<i>desulfuricans</i>
<i>Desulfacinum</i>	<i>hydrothermale</i>
<i>Desulfonauticus</i>	<i>submarinus</i>
<i>Desulfurobacterium</i>	<i>crinifex</i>
	<i>thermolithotrophum</i>
<i>Ferroglobus</i>	<i>placidus</i>
<i>Geothermobacter</i>	<i>ehrichii</i>
<i>Halomonas</i>	<i>neptunia</i>
	<i>sulfidaeris</i>
	<i>axialensis</i>
	<i>hydrothermalis</i>
<i>Halothiobacillus</i>	<i>hydrothermalis</i>
	<i>kellyi</i>
<i>Hyperthermus</i>	<i>butylicus</i>
<i>Idiomarina</i>	<i>Ioiihensis</i>
<i>Ignicoccus</i>	<i>pacificus</i>
<i>Marinithermus</i>	<i>hydrothermalis</i>
<i>Marinitoga</i>	<i>camini</i>
	<i>piezophila</i>
<i>Methanocaldococcus</i>	<i>fervens</i>
	<i>infernus</i>
	<i>vulcanius</i>
	<i>indicus</i>
	<i>jannaschii</i>
<i>Methanotorris</i>	<i>igneus</i>
<i>Methanopyrus</i>	<i>kandleri</i>
<i>Methanothermococcus</i>	<i>okinawensis</i>
	<i>thermolithotrophicus</i>

<i>Nanoarchaeum</i>	<i>equitans</i>
<i>Oceanithermus</i>	<i>profundus</i>
<i>Palaeococcus</i>	<i>ferrophilus</i>
<i>Persephonella</i>	<i>marina</i>
	<i>guaymasensis</i>
	<i>hydrogeniphila</i>
<i>Pyrococcus</i>	<i>horikoshii</i>
	<i>woesei</i>
	<i>furius</i>
<i>Pyrodictium</i>	<i>brockii</i>
	<i>occultum</i>
	<i>abyssi</i>
<i>Pyrolobus</i>	<i>fumarii</i>
<i>Rhodothermus</i>	<i>marinus</i>
<i>Staphylothermus</i>	<i>marinus</i>
	<i>hellenicus</i>
<i>Stetteria</i>	<i>hydrogenophila</i>
<i>Tepidibacter</i>	<i>thalassicus</i>
	<i>formicigenes</i>
<i>Thermaerobacter</i>	<i>marianensis</i>
	<i>nagasakiensis</i>
<i>Thermoanaerobacter</i>	<i>siderophilus</i>
<i>Thermococcus</i>	<i>profundus</i>
	<i>chitonophagus</i>
	<i>alcaliphilus</i>
	<i>peptonophilus</i>
	<i>guaymasensis</i>
	<i>barophilus</i>
	<i>aegaeus</i>
	<i>stetteri</i>
	<i>celer</i>
	<i>litoralis</i>
	<i>pacificus</i>
	<i>gorgonarius</i>
	<i>acidaminovorans</i>
	<i>siculi</i>
	<i>waiotapuensis</i>
	<i>aggregans</i>
	<i>fumicolans</i>
	<i>atlanticus</i>

<i>Thermodesulfatator</i>	<i>gammatolerans</i>
<i>Thermodesulfobacterium</i>	<i>indicus</i>
<i>Thermosipho</i>	<i>hydrogeniphilum</i>
<i>Thermotoga</i>	<i>japonicus</i>
	<i>maritima</i>
	<i>neapolitana</i>
<i>Thermovibrio</i>	<i>ruber</i>
	<i>ammonificans</i>
<i>Thiomicrospira</i>	<i>crunogena</i>
<i>Vulcanithermus</i>	<i>mediatlanticus</i>

Decision: Approved with Controls

ERMA Approval Code: NOC002338;
NOC002295-377; NOC000990-91;
NOC001013; NOC001018-19

Controls:

In order to satisfactorily address the matters detailed in the Third Schedule Part II: Containment controls for new organisms excluding genetically modified organisms of the HSNO Act, and other matters in order to give effect to the purpose of the HSNO Act, the approved organism is subject to the following controls¹:

- 1. To limit the likelihood of any accidental release of any organism or any viable genetic material²:**
 - 1.1 The approved organism shall be imported into, and maintained within a containment facility which complies with these controls.
 - 1.2 The construction, operation, and management of the containment facility shall be in accordance with the:
 - a) Ministry of Agriculture and Forestry (MAF)/ERMA New Zealand Standard 154.03.02: Containment Facilities for Microorganisms (the Standard).
 - b) Australian New Zealand Standard AS/NZS 2243:3 2002 Safety in Laboratories: Part 3: (Microbiological aspects and containment facilities).
 - c) Physical Containment Level 1 (PC1) requirements of the above Standards.
 - 1.3 The person responsible for a particular research area and/or the person responsible for the operation of the containment facility shall inform all personnel involved in the handling of the organisms of the Authority's controls.

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, e.g. when organisms or parts thereof are sublethally damaged by being frozen, dried, heated, or affected by chemical.

1.4 The containment facilities shall be approved by Ministry of Agriculture and Forestry (MAF), in accordance with section 39 of the Biosecurity Act and the Standard.

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 1.2.

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

3.1 Construction and operation of the containment facility shall comply with the requirements of the standards listed in Control 1.2 relating to the control of the effects of any accidental release or escape of an organism.

3.2 If for any reason a breach of containment³ occurs the facility Supervisor⁴, MAF Biosecurity Authority and ERMA New Zealand shall promptly be notified as soon as is practicable after the event is noticed.

3.3 In the event of any breach of containment of the organism, 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 1.2.

3.4 The applicant shall comply with the requirements of the standards listed in control 1.2 relating to the maintenance of records demonstrating compliance with the Standard, as required by the quality assurance programme, and documented in the containment manual.

4. Inspection and monitoring requirements for containment facilities:

4.1 The inspection and monitoring requirements for the containment facility shall be in compliance with the standards listed in control 1.2.

4.2 The Authority, or its authorised agent or properly authorised enforcement officers, may inspect the facilities 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 the Standard.

3 For the purposes of these controls a 'breach of containment' means any interference with the containment facility or any non-compliance with the Authority's controls whether an approved organism escapes from containment or not.

4 An inspector appointed under the Biosecurity Act.

5 Risk Group 2 as defined in the Standard means: (moderate individual risk, limited community risk) - a pathogen that can cause human, plant or animal disease, but is unlikely to be a serious hazard to laboratory workers, the community, livestock or the environment, laboratory exposures may cause infection, but effective treatment and preventive measures are available, and the risk of spread is limited.

6 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, e.g. when organisms or parts thereof are sub lethally damaged by being frozen, dried, heated, or affected by chemical.

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

5.1 The training of personnel working in the facility shall be in compliance with the standards listed in Control 1.2.

6. Additional controls:

6.1 Any person exercising this approval shall forward to ERMA New Zealand any publication in which any unidentified organism imported in accordance with this approval, (and which is not already recorded on the ERMA New Zealand Register of new organisms), is assigned a taxonomic classification.

6.2 If organisms are subsequently identified as or found to be Risk Group 2⁵ organisms, as defined in the AS/NZS2243.3: 2002 Safety in Laboratories: Part 3 (Microbiology), then they shall immediately be transferred to and maintained within a registered PC2 facility or preserved as non viable material or destroyed, and this fact shall be noted in the facility register(s), and the facility Operator shall notify ERMA New Zealand.

Applicant: IRL BioPharm

Application Code: NOC04015

Purpose: To import into containment the marine organism '*Salinospora*' sp. CNB392 (Feling *et al.* 2003) to assess production of a novel biopharmaceutical

Decision Notified: 29 October 2004

Description of Organisms: *Salinospora* sp. CNB392 (Feling *et al.*, 2003)

Decision: Approved with Controls

ERMA Approval Code: NOC002378

Controls:

In order to satisfactorily address the matters detailed in the Third Schedule Part II: Containment controls for new organisms excluding genetically modified organisms of the HSNO Act, and other matters in order to give effect to the purpose of the HSNO Act, the approved organism is subject to the following controls:

1. To limit the likelihood of any accidental release of any organism or any viable genetic material⁶:

- 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 facilities shall be approved by the Ministry of Agriculture and Forestry (MAF), and the organism shall be contained in accordance with the MAF Biosecurity Authority/ERMA New Zealand Standard 154.03.02: Containment Facilities for Microorganisms Physical containment level 2 (PC2) and the controls set out by the Authority.
- 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 standard listed in control of this report.
- 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 organism shall be in compliance with the standard listed in control of this report.
 - 3.2 In the event of any breach of containment the contingency plan for the attempted retrieval or destruction of any viable material of the organism that have escaped shall be implemented immediately. The contingency plan shall be included in the containment manual in accordance with the standard listed in control of this report.
 - 3.3 If for any reason a breach of containment occurs the facility Supervisor, MAF Biosecurity Authority and ERMA New Zealand shall be notified immediately (and at least within 24 hours of the breach being detected).
- 4. Inspection and monitoring requirements for containment facilities:**
 - 4.1 The inspection and monitoring requirements for containment facilities shall be in compliance with the standard listed in control of this report.
 - 4.2 The Authority, or its authorised agent or properly authorised enforcement officers, may inspect the facilities at any reasonable time.
- 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 standard listed in control of this report.

6. Additional Controls:

- 6.1 A class II Biological Safety Cabinet shall be used for experiments that require the open handling of this bacterial strain by laboratory personnel and any equipment that comes into contact with the culture shall be appropriately decontaminated.

DELEGATED AUTHORITY

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

Applicant: University of Otago

Institute Code: GMO04/UO002

Application Code: GMC04013

Purpose: Importation into containment of non-pathogenic *Agrobacterium tumefaciens* mutant strains that will be used for functional comparisons of the vir system with a similar system found in a rhizobium species

Decision Notified: 09 August 2004

Description of Organism: *Agrobacterium tumefaciens* (Smith and Townsend 1907) Conn 1942

Agrobacterium tumefaciens (non-pathogenic strains) modified with non-conjugative plasmid; Mesorhizobium loti DNA

Containment: PC2

Category: B

and

Agrobacterium tumefaciens strains modified with mutations introduced into vir genes

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMC001243

Applicant: University of Otago

Institute Code: GMO04/UO016

Application Code: GMC04014

Purpose: To enable scientific research on the bacterium *Pseudomonas aeruginosa* using genetically modified strains developed in research institutions overseas

Decision Notified: 24 August 2004

Description of Organism: *Pseudomonas aeruginosa* (Schroeter 1872) Migula 1900

Pseudomonas aeruginosa (strain PA01 and clinical isolates) modified with reporter genes such as lux and lacZ and by introduction of genes conferring resistance to non-clinical antibiotics

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMC001244

Applicant: Massey University

Institute Code: GMO04/MU015

Application Code: GMC04016

Purpose: Importation of non-pathogenic Gram positive bacteria *Bacillus subtilis* strain 1E60 containing plasmid pGDV1; plasmid will be used to determine if particular transposable element can be used to make genetically modified insect

Decision Notified: 06 September 2004

Description of Organism: *Bacillus subtilis*

Bacillus subtilis modified with chloramphenicol resistance plasmid, PGDV1

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMC001245

Applicant: University of Auckland

Institute Code: GMO02/UA010

Application Code: GMD02047

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

Decision Notified: 21 September 2004

Description of Organism: *Escherichia coli* (Migula 1895) Castellani and Chalmers 1919

Escherichia coli (K12 or B strains) as modified by chimaeric disabled and replication deficient AAV vector with the following inserts; Serotype-specific capsid proteins; Human, mouse or rat neuroserpin mutants; Reporter genes; Epitope-flagged neuroserpin, neuroserpin

construct and reporter gene constructs and reporter gene GFP

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD002159

Description of Organism: *Homo sapiens*

Homo sapiens cell lines as modified by chimaeric disabled and replication deficient AAV vector with the following inserts; Serotype-specific capsid proteins; Human, mouse or rat neuroserpin mutants; Reporter genes; Epitope-flagged neuroserpin, neuroserpin construct and reporter gene constructs and reporter gene GFP

Containment: PC1

Category: A

and

Homo sapiens (human packaging cell line HEK293) as modified by chimaeric disabled and replication deficient AAV vector with the following inserts; Serotype-specific capsid proteins; Human, mouse or rat neuroserpin mutants; Reporter genes; Epitope-flagged neuroserpin, neuroserpin construct and reporter gene constructs and reporter gene GFP

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD002160

Description of Organism: *Mus musculus* Linnaeus, 1758

Mus musculus cell lines as modified by chimaeric disabled and replication deficient AAV vector with the following inserts; Serotype-specific capsid proteins; Human, mouse or rat neuroserpin mutants; Reporter genes; Epitope-flagged neuroserpin, neuroserpin construct and reporter gene constructs and reporter gene GFP

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD002161

Description of Organism: *Rattus norvegicus*
(Berkenhout, 1796)

Rattus norvegicus cell lines as modified by chimaeric disabled and replication deficient AAV vector with the following inserts; Serotype-specific capsid proteins; Human, mouse or rat neuroserpin mutants; Reporter genes; Epitope-flagged neuroserpin, neuroserpin construct and reporter gene constructs and reporter gene GFP

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD002162

Applicant: University of Auckland

Institute Code: GMO04/UA019

Application Code: GMD04085

Purpose: Immortalised Human microvascular endothelial cell line.
Update of GMO99/UA010

Decision Notified: 09 July 2004

Description of Organism: *Homo sapiens* cell line

Homo sapiens endothelial cell line modified with pBR-322 containing SV40 Large T Antigen and SV40 A genes

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003359

Applicant: University of Otago

Institute Code: GMO04/UO015

Application Code: GMD04095

Purpose: Human, mouse and monkey cell lines, and *Escherichia coli* will be developed to identify proteins important for the function of the mitotic spindle checkpoint, a fundamental cellular mechanism important in preventing chromosomal instability and cancer

Decision Notified: 09 August 2004

Description of Organism: *Cercopithecus aethiops*

Cercopithecus aethiops (*Chlorocebus aethiops*) (COS7 cell line) modified with plasmid-based mammalian expression vectors containing cDNA encoding genes

involved in the function of the mitotic spindle checkpoint derived from *Homo sapiens* or *Mus musculus*

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003360

Description of Organism: *Escherichia coli* (Migula 1895) Castellani and Chalmers 1919

Escherichia coli (strain K12 or B derivatives) modified with plasmid-based mammalian expression vectors containing cDNA encoding genes involved in the function of the mitotic spindle checkpoint derived from *Homo sapiens* or *Mus musculus*

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003361

Description of Organism: *Homo sapiens* cell lines

Homo sapiens cell lines (HEK-293; HeLa; TReX-293; TReX-HeLa; or similar commercially available cell lines) modified with plasmid-based mammalian expression vectors containing cDNA encoding genes involved in the function of the mitotic spindle checkpoint derived from *Homo sapiens* or *Mus musculus*

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003362

Description of Organism: *Mus musculus* Linnaeus, 1758

Mus musculus (fibroblast cell lines) modified with plasmid-based mammalian expression vectors containing cDNA encoding genes involved in the function of the mitotic spindle checkpoint derived from *Homo sapiens* or *Mus musculus*

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003363

Applicant: University of Otago

Institute Code: GMO04/UO009

Application Code: GMD04097

Purpose: To improve our understanding of the molecular basis of human disease by investigating mutations that could potentially affect RNA splicing

Decision Notified: 24 August 2004

Description of Organism: *Cercopithecus aethiops*

Cercopithecus aethiops (*Chlorocebus aethiops*) (COS-7L cell line) modified with non-conjugative plasmids p.cDNA3.1/V5-His and pCR2.1; DNA encoding human Apo B, LDLR or plasma proteins, sourced from commercial human cell lines, human BACs or human DNA

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003364

Description of Organism: *Escherichia coli* (Migula 1895) Castellani and Chalmers 1919

Escherichia coli (strain K12 derivatives) modified with non-conjugative plasmids p.cDNA3.1/V5-His and pCR2.1; DNA encoding human Apo B, LDLR or plasma proteins, sourced from commercial human cell lines, human BACs or human DNA

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003365

Applicant: Massey University

Institute Code: GMO04/MU018

Application Code: GMD04100

Purpose: To determine protein-protein interactions using yeast two-hybrid system

Decision Notified: 06 September 2004

Description of Organism: *Saccharomyces cerevisiae*

Saccharomyces cerevisiae modified with commercial vectors containing Ff bacteriophage, *Escherichia coli*, *Arabidopsis thaliana*, *Malus domestica* or *Mus musculus* DNA

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003367

Applicant: Massey University

Institute Code: GMO04/MU017

Application Code: GMD04099

Purpose: To identify and characterise probiotic components of *Lactobacillus rhamnosus* HN001 including additional non-pathogenic lactic acid and probiotic bacterial species as donors of DNA. Update of GMO04/MU004

Decision Notified: 06 September 2004

Description of Organism: *Escherichia coli* (Migula 1895) Castellani and Chalmers 1919

Escherichia coli (K12 and B derivatives) modified with non-conjugative expression vectors, genomic DNA fragments of non-pathogenic lactic acid and probiotic bacterial species *Lactobacillus reuteri*, *Lactobacillus crispatus*, *Lactobacillus acidophilus*, *Lactobacillus gasseri*, *Lactobacillus planatarum*, *Lactobacillus casei*, *Lactobacillus brevis*, *Lactobacillus fermentum*, *Lactobacillus johnsonii*, *Lactobacillus helveticus*, *Lactobacillus debrueckii subsp bulgaricus*, *Lactococcus lactis*, *Bifidobacterium lactis*, *Streptococcus thermophilus*, *Lactobacillus rhamnosus*

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003368

Applicant: Massey University

Institute Code: GMO04/MU014

Application Code: GMD04098

Purpose: Expression of Tributyrin lipase (esterase) proteins in *Escherichia coli* and mutagenesis of cloned DNA for structural and function studies. Update of GMO00/MU027

Decision Notified: 06 September 2004

Description of Organism: *Escherichia coli* (Migula 1895) Castellani and Chalmers 1919

Escherichia coli (strain K12 derivatives) modified with non-conjugative vectors containing bacterial sequences coding for esterase and peptidase genes from non-pathogenic bacteria

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003369

Applicant: University of Otago

Institute Code: GMO04/UO019

Application Code: GMD04103

Purpose: To allow research into organismal and molecular evolution of the intertidal digenean parasite (families: microphallid and echinostomatid) of the common New Zealand topshell *Diloma subrostrata*.
Update of GMO03/UO032

Decision Notified: 31 August 2004

Description of Organism: *Escherichia coli* (Migula 1895) Castellani and Chalmers 1919

Escherichia coli (K12 or B strains) modified with non-conjugative plasmid; microphallid and echinostomatid platyhelminth DNA

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003370

Applicant: University of Auckland

Institute Code: GMO04/UA013

Application Code: GMD04102

Purpose: To study axonal transport of HSV

Decision Notified: 31 August 2004

Description of Organism: *Herpes simplex virus* (MS strain) as modified by DNA encoding Green Fluorescent Protein

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003371

Applicant: University of Auckland

Institute Code: GMO04/UA023

Application Code: GMD04101

Purpose: To generate transgenic and knock-out strains of the nematode *Caenorhabditis elegans* for gene identification and study of gene function

Decision Notified: 30 August 2004

Description of Organism: *Bos taurus*

Bos taurus (cell lines) as modified by non-conjugative vectors with DNA inserts (including cDNA/genomic libraries, cDNA

and genomic sequences, deletions, antisense and RNA interference sequences) from *Mus musculus*, *Ovis aries*, *Bos taurus*, *Homo sapiens*, *Danio rerio*, *Caenorhabditis elegans* and *Drosophila melanogaster* encoding:

Signalling molecules, Milk proteins, Hormones, Glucose responsive genes, Genes involved in lipid synthesis, metabolism and secretion, Transcriptional factors, Growth factors, Proteins involved in apoptosis, Proteins identified as the cause or may modify the impact of neurodegenerative diseases

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003372

Description of Organism: *Caenorhabditis elegans*

Caenorhabditis elegans as modified by non-conjugative vectors with DNA inserts (including cDNA/genomic libraries, cDNA and genomic sequences, deletions, antisense and RNA interference sequences) from *Mus musculus*, *Ovis aries*, *Bos taurus*, *Homo sapiens*, *Danio rerio*, *Caenorhabditis elegans* and *Drosophila melanogaster* encoding:

Signalling molecules, Milk proteins, Hormones, Glucose responsive genes, Genes involved in lipid synthesis, metabolism and secretion, Transcriptional factors, Growth factors, Proteins involved in apoptosis, Proteins identified as the cause or may modify the impact of neurodegenerative diseases

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003373

Description of Organism: *Escherichia coli* (Migula 1895) Castellani and Chalmers 1919

Escherichia coli (non-pathogenic strains) as modified by non-conjugative vectors with DNA inserts (including cDNA/genomic libraries, cDNA and genomic sequences, deletions, antisense and RNA interference sequences) from *Mus musculus*, *Ovis aries*, *Bos taurus*, *Homo sapiens*, *Danio rerio*, *Caenorhabditis elegans* and *Drosophila melanogaster* encoding:

Signalling molecules, Milk proteins, Hormones, Glucose responsive genes, Genes involved in lipid synthesis, metabolism and secretion, Transcriptional factors, Growth factors, Proteins involved in apoptosis, Proteins identified as the cause or may modify the impact of neurodegenerative diseases

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003374

Description of Organism: *Mus musculus* Linnaeus, 1758

Mus musculus (cell lines) as modified by non-conjugative vectors with DNA inserts (including cDNA/genomic libraries, cDNA and genomic sequences, deletions, antisense and RNA interference sequences) from *Mus musculus*, *Ovis aries*, *Bos taurus*, *Homo sapiens*, *Danio rerio*, *Caenorhabditis elegans* and *Drosophila melanogaster* encoding:

Signalling molecules, Milk proteins, Hormones, Glucose responsive genes, Genes involved in lipid synthesis, metabolism and secretion, Transcriptional factors, Growth factors, Proteins involved in apoptosis, Proteins identified as the cause or may modify the impact of neurodegenerative diseases

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003375

Description of Organism: *Rattus norvegicus* (Berkenhout, 1796)

Rattus norvegicus (cell lines) as modified by non-conjugative vectors with DNA inserts (including cDNA/genomic libraries, cDNA and genomic sequences, deletions, antisense and RNA interference sequences) from *Mus musculus*, *Ovis aries*, *Bos taurus*, *Homo sapiens*, *Danio rerio*, *Caenorhabditis elegans* and *Drosophila melanogaster* encoding:

Signalling molecules, Milk proteins, Hormones, Glucose responsive genes, Genes involved in lipid synthesis, metabolism and secretion, Transcriptional factors, Growth factors, Proteins involved in apoptosis, Proteins identified as the cause or may modify the impact of neurodegenerative diseases

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003376

Description of Organism: *Saccharomyces cerevisiae*

Saccharomyces cerevisiae as modified by non-conjugative vectors with DNA inserts (including cDNA/genomic libraries, cDNA and genomic sequences, deletions, antisense and RNA interference sequences) from *Mus musculus*, *Ovis aries*, *Bos taurus*, *Homo sapiens*, *Danio rerio*, *Caenorhabditis elegans* and *Drosophila melanogaster* encoding:

Signalling molecules, Milk proteins, Hormones, Glucose responsive genes, Genes involved in lipid synthesis, metabolism and secretion, Transcriptional factors, Growth factors, Proteins involved in apoptosis, Proteins identified as the cause or may modify the impact of neurodegenerative diseases

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003377

Applicant: University of Auckland

Institute Code: GMO04/UA024

Application Code: GMD04105

Purpose: A study of cDNAs with therapeutic potential in the fight against cancer. Update of GMO99/UA026

Decision Notified: 30 August 2004

Description of Organism: *Escherichia coli* (Migula 1895) Castellani and Chalmers 1919

Escherichia coli (MC1061/P3 and DH5 alpha) as modified by pCDM8 and pcDNA3 expression vectors with mouse and human cDNAs encoding factors involved in apoptosis (IAP-1, IAP-2, XIAP and Livin) and tumour related factors (Bcl-XL and Bcl-XS, TRAIL and RCAS) and human cDNA encoding HBXIP and siSTRIKE U6 hairpin cloning vector

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003378

Description of Organism: *Mus musculus* Linnaeus, 1758

Mus musculus as injected with pCDM8 and pcDNA3 expression vectors with mouse and human cDNAs encoding factors involved in apoptosis (IAP-1, IAP-2, XIAP and Livin) and tumour related factors (Bcl-XL and Bcl-XS, TRAIL and RCAS) and human cDNA encoding HBXIP and siSTRIKE U6 hairpin cloning vector

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003379

Applicant: University of Auckland

Institute Code: GMO02/UA010

Application Code: GMD02047

Purpose: To study the biological processes that regulates nerve and endocrine cell growth and survival.

This is an update of GMO00/UA068 and GMO00/UA055

Decision Notified: 21 September 2004

Description of Organism: *Bos indicus*

Bos indicus cell lines as modified by chimaeric disabled and replication deficient AAV vector with the following inserts; Serotype-specific capsid proteins; Human, mouse or rat neuroserpin mutants; Reporter genes; Epitope-flagged neuroserpin, neuroserpin construct and reporter gene constructs and reporter gene GFP

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003380

Description of Organism: *Bos taurus*

Bos taurus cell lines as modified by chimaeric disabled and replication deficient AAV vector with the following inserts; Serotype-specific capsid proteins; Human, mouse or rat neuroserpin mutants; Reporter genes; Epitope-flagged neuroserpin, neuroserpin construct and reporter gene constructs and reporter gene GFP

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003381

Description of Organism: *Canis familiaris* Linnaeus

Canis familiaris cell lines as modified by chimaeric disabled and replication deficient AAV vector with the following inserts; Serotype-specific capsid proteins; Human, mouse or rat neuroserpin mutants; Reporter genes; Epitope-flagged neuroserpin, neuroserpin construct and reporter gene constructs and reporter gene GFP

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003382

Description of Organism: *Cercopithecus aethiops*

Cercopithecus aethiops cell lines as modified by chimaeric disabled and replication deficient AAV vector with the following inserts; Serotype-specific capsid proteins; Human, mouse or rat neuroserpin mutants; Reporter genes; Epitope-flagged neuroserpin, neuroserpin construct and reporter gene constructs and reporter gene GFP

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003383

Description of Organism: *Cricetus cricetus*

Cricetus cricetus cell lines as modified by chimaeric disabled and replication deficient AAV vector with the following inserts; Serotype-specific capsid proteins; Human, mouse or rat neuroserpin mutants; Reporter genes; Epitope-flagged neuroserpin, neuroserpin construct and reporter gene constructs and reporter gene GFP

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003384

Description of Organism: *Criteculus griseus*

Criteculus griseus cell lines as modified by chimaeric disabled and replication deficient AAV vector with the following inserts; Serotype-specific capsid proteins; Human, mouse or rat neuroserpin mutants; Reporter genes; Epitope-flagged neuroserpin, neuroserpin construct and reporter gene constructs and reporter gene GFP

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003385

Description of Organism: *Equus caballus*
(Linnaeus, 1758)

Equus caballus cell lines as modified by chimaeric disabled and replication deficient AAV vector with the following inserts; Serotype-specific capsid proteins; Human, mouse or rat neuroserpin mutants; Reporter genes; Epitope-flagged neuroserpin, neuroserpin construct and reporter gene constructs and reporter gene GFP

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003386

Description of Organism: *Gallus gallus*

Gallus gallus cell lines as modified by chimaeric disabled and replication deficient AAV vector with the following inserts; Serotype-specific capsid proteins; Human, mouse or rat neuroserpin mutants; Reporter genes; Epitope-flagged neuroserpin, neuroserpin construct and reporter gene constructs and reporter gene GFP

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003387

Description of Organism: *Microcricetus auratus*

Microcricetus auratus cell lines as modified by chimaeric disabled and replication deficient AAV vector with the following inserts; Serotype-specific capsid proteins; Human, mouse or rat neuroserpin mutants; Reporter genes; Epitope-flagged neuroserpin, neuroserpin construct and reporter gene constructs and reporter gene GFP

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003388

Description of Organism: *Mus spretus*

Mus spretus cell lines as modified by chimaeric disabled and replication deficient AAV vector with the following inserts; Serotype-specific capsid proteins; Human, mouse or rat neuroserpin mutants; Reporter genes; Epitope-flagged neuroserpin, neuroserpin construct and reporter gene constructs and reporter gene GFP

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003389

Description of Organism: *Oryctolagus canicula*

Oryctolagus canicula cell lines as modified by chimaeric disabled and replication deficient AAV vector with the following inserts; Serotype-specific capsid proteins; Human, mouse or rat neuroserpin mutants; Reporter genes; Epitope-flagged neuroserpin, neuroserpin construct and reporter gene constructs and reporter gene GFP

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003390

Description of Organism: *Ovis aries*

Ovis aries cell lines as modified by chimaeric disabled and replication deficient AAV vector with the following inserts; Serotype-specific capsid proteins; Human, mouse or rat neuroserpin mutants; Reporter genes; Epitope-flagged neuroserpin, neuroserpin construct and reporter gene constructs and reporter gene GFP

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003391

Description of Organism: *Rattus rattus*

Rattus rattus cell lines as modified by chimaeric disabled and replication deficient AAV vector with the following inserts; Serotype-specific capsid proteins; Human, mouse or rat neuroserpin mutants; Reporter genes; Epitope-flagged

neuroserpin, neuroserpin construct and reporter gene constructs and reporter gene GFP

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003392

Description of Organism: *Sus scrofa* Linnaeus

Sus scrofa cell lines as modified by chimaeric disabled and replication deficient AAV vector with the following inserts; Serotype-specific capsid proteins; Human, mouse or rat neuroserpin mutants; Reporter genes; Epitope-flagged neuroserpin, neuroserpin construct and reporter gene constructs and reporter gene GFP

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003393

AMENDMENTS TO APPROVALS

Under section 67A of the HSNO Act the Environmental Risk Management Authority may amend any approval given under Part V of the HSNO Act if it considers that the alteration is minor in effect or corrects a minor or technical error.

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

Applicant: University of Auckland

Institute Code: GMO02/UA010

Application Code: GMD02047

Purpose: To study the biological processes that regulates nerve and endocrine cell growth and survival.

This is an update of GMO00/UA068 and GMO00/UA055

Decision Amendment Date: 31 August 2004

Reason Decision Amended: Amendment to more accurately describe the host organisms and to alter the Categories and physical containment level in accordance with current Regulations.

HAZARDOUS SUBSTANCES

NOTIFIED APPLICATIONS AND PUBLIC SUBMISSIONS

The applications in the Bulletin are for reference only. Our public notification process includes alerts in four main daily newspapers with the full information and submission forms available on our website.

To ensure that you are advised directly about applications open for public submission contact us at info@erманz.govt.nz to be added to our interested party list. You will need to nominate the types of applications that you are interested in.

Applicant: Nalco New Zealand Limited

Application Code: HSR04041

Purpose: To manufacture EC6395A for use as a biocide to control sulphur-reducing bacteria in water separated from oil/gas refining processes

Date Publicly Notified: 08 October 2004

Date Submissions Close: 22 November 2004

Applicant: Bayer New Zealand Limited

Application Code: HSR04023

Purpose: To import Melody Duo, a fungicide intended for the control of early and late blight in potatoes, and downy mildew in onions

Date Publicly Notified: 20 October 2004

Date Submissions Close: 02 December 2004

NOTIFIED APPLICATIONS WITHDRAWN

Applicant: Baker Petrolite

Application Code: HSR04052

Purpose: To import FLO XS Pipeline Booster a substance used in petroleum product pipelines where it reduces frictional pressure loss and increases fluid flow

Date Publicly Notified: 11 October 2004

Date Withdrawn: 02 November 2004

Baker Petrolite has withdrawn this application and it has been re-submitted for consideration by the Chief Executive under the rapid assessment (similar) pathway.

NON-NOTIFIED APPLICATIONS RECEIVED

Applicant: Dow AgroSciences

Application Code: HSC04026

Purpose: To import or manufacture under containment for field testing WRS-X-D1 and WRS-X-D2 for the purpose of control of plant-damaging organisms in various horticultural crops

Date Formally Received: 24 September 2004

Applicant: Dow AgroSciences

Application Code: HSC04028

Purpose: To import or manufacture under containment for field testing WRS-X-Q1, WRS-X-Q2, WRS-X-Q3, WRS-X-Q4 and WRS-X-Q5 for the purpose of control of plant-damaging organisms in various horticultural and agricultural crops

Date Formally Received: 30 September 2004

Applicant: Syngenta Crop Protection Limited

Application Code: HSC04029

Purpose: To import into containment the substance NZH6 to conduct field trials to provide information for the development of the selected compounds

Date Formally Received: 07 October 2004

Applicant: Syngenta Crop Protection Limited

Application Code: HSC04030

Purpose: To import into containment the substance NZH5 to conduct field trials to provide information for the development of the selected compounds

Date Formally Received: 07 October 2004

Applicant: Syngenta Crop Protection Limited

Application Code: HSC04031

Purpose: To import into containment the substance NZH4 to conduct field trials to provide information for the development of the selected compounds

Date Formally Received: 07 October 2004

Applicant: BASF New Zealand

Application Code: HSC04032

Purpose: To field test the substance BNZ0204 to assess the efficacy and phytotoxicity

Date Formally Received: 14 October 2004

DECISIONS ON APPLICATIONS

Applicant: Merial New Zealand Limited

Application Code: HSR04031

Purpose: To import or manufacture Previcox Hi-Select Cox-2 Flavoured Tablets: Pain and Inflammation Control for Dogs, a new non-steroidal anti-inflammatory drug (NSAID) of the 'coxib' class

Decision Notified: 07 October 2004

Decision: Approved with Controls

Identifier for Substance: Previcox™ Hi-Select Cox-2 Flavoured Tablets: Pain and Inflammation Control for Dogs

Classification: 6.8A developmental toxicant, 6.9A target organ systemic toxicant, 9.3C ecotoxic to terrestrial vertebrates

ERMA Approval Code: HSR000936

Controls:

Control Code ⁷	Regulation ⁸	Explanation ⁹
Hazardous Substances (Identification) Regulations 2001		
I1	6, 7, 32–35, 36 (1)–(7)	General identification requirements
I9	18	Secondary identifiers for all hazardous substances
I11	20	Secondary identifiers for ecotoxic substances
I16	25	Secondary identifiers for toxic substances
I17	26	Use of Generic Names
I18	27	Use of Concentration Ranges
I19	29–31	Alternative information in certain cases
I21	37–39, 47–50	Documentation required in places of work
I28	46	Specific documentation requirements for toxic substances
I29	51–52	Duties of persons in charge of places with respect to signage
Hazardous Substances (Packaging) Regulations 2001		
P1	5, 6, 7 (1), 8	General packaging requirements
P3	9	Packaging requirements for substances packed in limited quantities

7 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 the ERMA New Zealand website www.ermanz.govt.nz/resources and is also contained in the ERMA New Zealand *User Guide to HSNO Control Regulations*.

8 These Regulations form the controls applicable to this substance. Refer to the cited Regulations for the formal specification, and for definitions and exemptions. The accompanying explanation is intended for guidance only.

9 These explanations are for guidance only. Refer to the cited Regulations for the formal specification, and for definitions and exemptions.

P13	19	Packaging requirements for toxic substances
PG3	Schedule 3	This schedule provides the test methods for packaging required to be tested in accordance with this schedule. The tests in Schedule 3 correlate to the packaging requirements of UN Packing Group III (UN PGIII)
Hazardous Substances (Disposal) Regulations 2001		
D4, D5	8, 9	Disposal requirements for toxic and ecotoxic substances
D6	10	Disposal requirements for packages
D7	11, 12	Disposal information requirements
D8	13, 14	Disposal documentation requirements
Hazardous Substances (Emergency Management) Regulations 2001		
EM1	6, 7, 9–11	Level 1 emergency management information: General requirements
EM7	8(f)	Information requirements for ecotoxic substances
EM8	12–16, 18–20	Level 2 emergency management information requirements
EM11	25–34	Level 3 emergency management requirements – emergency response plans
EM13	42	Level 3 emergency management requirements – signage

Applicant: Cairns Slane

Application Code: HSR04015

Purpose: To import ThermaCELL Mosquito Repellent for use as an insect repellent strictly for outdoor use and not for agricultural or horticultural purposes

Decision Notified: 12 October 2004

Decision: Approved with Controls

Identifier for Substance: ThermaCELL Mosquito Repellent

Classification: 2.1.1A flammable (butane component in cartridge), 6.1E acute oral toxicant (cellulose mat), 9.1A highly toxic to aquatic environment (cellulose mat), 9.4C ecotoxic to terrestrial invertebrates (cellulose mat)

ERMA Approval Code: HSR000937

Controls:

Control Code ¹⁰	Regulation ¹¹	Explanation ¹²
Hazardous Substances (Classes 6, 8 and 9 Controls) Regulations 2001 - Ecotoxic Property Controls		
E3	49	Controls relating to protection of terrestrial invertebrates e.g. beneficial insects
Hazardous Substances (Identification) Regulations 2001		
I1	6, 7, 32–35, 36 (1)–(7)	General identification requirements
I3	9	Priority identifiers for ecotoxic substances

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 the ERMA New Zealand website www.ermanz.govt.nz/resources and is also contained in the ERMA New Zealand *User Guide to HSNO Control 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. The accompanying explanation is intended for guidance only.

¹² These explanations are for guidance only. Refer to the cited Regulations for the formal specification, and for definitions and exemptions.

I8	14	Priority identifiers for certain toxic substances
I9	18	Secondary identifiers for all hazardous substances
I11	20	Secondary identifiers for ecotoxic substances
I16	25	Secondary identifiers for toxic substances
I19	29–31	Alternative information in certain cases
I21	37–39, 47–50	Documentation required in places of work
I23	41	Specific documentation requirements for ecotoxic substances
I28	46	Specific documentation requirements for toxic substances
I29	51-52	Duties of persons in charge of places with respect to signage
I30	53	Advertising corrosive and toxic substances
Hazardous Substances (Packaging) Regulations 2001		
P1	5, 6, 7 (1), 8	General packaging requirements
P3	9	Packaging requirements for substances packed in limited quantities
P13 and 15	19	Packaging requirements for toxic and ecotoxic substances
PG3	Schedule 3	This schedule provides the test methods for packaging required to be tested in accordance with this schedule. The tests in Schedule 3 correlate to the packaging requirements of UN Packing Group III (UN PGIII).
Hazardous Substances (Disposal) Regulations 2001		
D4 and D5	8, 9	Disposal requirements for toxic, corrosive or ecotoxic substances
D6	10	Disposal requirements for packages
D7	11, 12	Disposal information requirements
D8	13, 14	Disposal documentation requirements
Hazardous Substances (Emergency Management) Regulations 2001		
EM1	6, 7, 9–11	Level 1 emergency management information: General requirements
EM6	8(e)	Information requirements for toxic substances
EM7	8(f)	Information requirements for ecotoxic substances
EM8	12–16, 18–20	Level 2 emergency management information requirements
EM11	25-34	Level 3 emergency management requirements – emergency response plans
EM13	42	Level 3 emergency management requirements – signage

B Control Codes and Explanations for the butane gas cartridges

HSNO Default controls
The controls stipulated for butane in the ‘Hazardous Substances (Dangerous Goods and Scheduled Toxic Substances) Transfer Notice 2004, Pursuant to the Hazardous Substances and New Organisms Act 1996’, published in the New Zealand Gazette of Thursday 25 March 2004, apply to ThermaCELL Mosquito Repellent butane gas cartridges.

DELEGATED AUTHORITY

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

Applicant: Dow AgroSciences

Application Code: HSC04024

Purpose: To use in containment for the purpose of field testing DASNZ004/04 and DASNZ005/04 to assess the ability to control certain diseases in certain crops

Decision Notified: 21 October 2004

Decision: Approved with Controls

Identifier for Substance: DASNZ004/04,
DASNZ005/04

ERMA Approval Code: HSC000119-20

Controls:

1. The trials shall be undertaken in accordance with the Management Plan, which accompanied the application. Modifications of the Management Plan may be approved in writing by ERMA New Zealand providing that they comply with the following controls.
2. Notwithstanding the requirements of control 1 above, the trials shall also comply with the following controls:
3. The trials may be carried out at a location that is not defined until an infestation of the target pest has been found, only if the applicant;
 - has permission from the owner of the land to carry out the trial; and
 - notifies ERMA New Zealand of the locations as per control 22.
4. The trial sites shall be chosen so as to prevent the substances entering any surface water or groundwater system.
5. The trial sites shall be located to prevent any building where people live or work being exposed to the substances.
6. Access to the trial sites shall be by permission of the Trial Director¹³ or owner of the property on which it is located. The trial site boundaries shall be clearly marked and distinctly visible from outside the trial site throughout the life of the trials. The trial sites shall be signed indicating that unauthorised access is not allowed, that the site is subject to a trial, and that the crops should not be removed or disturbed.
7. In any location where it is possible for grazing animals to access the trial site, the trial sites shall be secured by stock proof fencing to exclude grazing animals for the duration of the trial.
8. The substances shall be stored in accordance with the Code of Practice for the Management of Agrichemicals NZS8409.
9. The substances shall be mixed, diluted and prepared in any other way prior to application in accordance with the relevant sections of the Code of Practice for the Management of Agrichemicals NZS8409.
10. The substances shall be securely packed in suitable containers that comply with the Hazardous Substances (Packaging) Regulations 2001, and shall be labelled in accordance with the Hazardous Substances (Identification) Regulations 2001. A Safety Data Sheet shall accompany each shipment.
11. The substances shall be transported in compliance with any relevant requirements of the Land Transport Rule: Dangerous Goods 1999.
12. The substances shall be applied by way of hand-held/operator-worn equipment, using hydraulic pressure or compressed CO₂ or air on plots specifically designated and marked for each treatment, in accordance with the Code of Practice for the Management of Agrichemicals NZS8409. Special attention shall be paid to the minimisation of spray drift, and in particular to the avoidance of drift beyond boundaries agreed with the owner of the trial site.
13. The personnel applying the substances to the crops shall be able to demonstrate that they have the qualifications necessary to carry out the trial. Ways of demonstrating this would include the holding of an appropriate Growsafe certification or an Approved Handler qualification.
14. No sprayed produce shall be consumed by people or animals or offered for sale.
15. Sprayed produce shall be disposed of by ploughing in, by mulching, or by burial at an approved landfill (not to be diverted to any composting operation).
16. The amount of spray prepared shall be adequate for the trial site, but if there is any surplus spray mix it shall be disposed of within the trial site by being further diluted and sprayed over a marked and designated non-crop and non-grazed area at the site.

¹³ The Trial Director is the individual appointed by the applicant to be responsible for the overall conduct of the trial in accordance with the Management Plan and approval controls.

17. Any equipment used shall be rinsed after use with the appropriate detergent or decontaminant, and rinsate disposed of within the trial site by being sprayed over a marked and designated non-crop and non-grazed area at the site.
 18. Surplus substances remaining at the end of the trials shall be returned to Dow AgroSciences Ltd for secure storage in an exempt laboratory, exported or degraded to non-hazardous substances (note that once the trials are complete the substances do not have approval to be present in New Zealand except in an exempt laboratory).
 19. Any accidental spillage of the unmixed substance or spray mix shall be contained, prevented from entering waterways, and absorbed with an appropriate absorbent material. This material shall be placed into sealed containers and disposed of at an appropriate waste disposal facility (which may include a landfill), subject to the facility's waste acceptance policy.
 20. A record shall be kept of all use of the substances. This record shall cover all matters referred to in Regulation 6 of the Hazardous Substances (Class 6, 8 and 9 Controls) Regulations.
 21. Information on appropriate safety precautions necessary to provide safeguards against the substances' toxic and ecotoxic properties shall accompany the substances at all stages of their lifecycle. Personal protective equipment shall be worn when handling the substance throughout the lifecycle.
 22. Occupational Safety and Health, Head Office [Attn. HSNO Project Manager (OSH) or equivalent position] and ERMA New Zealand shall be informed in writing (by letter, fax or email) of the location, start, and completion of the trials. Notifications shall include the following details:
23. If for any reason a breach of containment occurs, the Trial Director shall notify OSH and ERMA New Zealand within 24 hours of the breach being detected. It is suggested that if a breach in containment results in contamination of a waterway, the relevant iwi authorities be advised.
 24. The Authority or its authorised agent or properly authorised enforcement officers, may inspect the facilities and trial sites at any reasonable time.
 25. This approval remains in place for the term of any concurrent approval required under the Agricultural Compounds and Veterinary Medicines Act 1997, to a maximum of five years.
 26. The maximum total quantity of DASNZ004/04 that shall be imported under this approval is ten kilograms. The maximum total quantity of DASNZ005/04 that shall be imported under this approval is ten kilograms.

Applicant: Dow AgroSciences

Application Code: HSC04025

Purpose: To import or manufacture under containment for field testing WRS-X-F1, WRS-X-F2 or WRS-X-F3 for the purpose of control of plant-damaging organisms in various horticultural crops.

Decision Notified: 21 October 2004

Decision: Approved with Controls

Identifier for Substance: WRS-X-F1, WRS-X-F2, WRS-X-F3

ERMA Approval Code: HSC000121-23

Controls:

1. The trials shall be undertaken in accordance with the Management Plan, which accompanied the application. Modifications of the Management Plan may be approved in writing by ERMA New Zealand providing that they comply with the following controls.
2. Notwithstanding the requirements of control 1 above, the trials shall also comply with the following controls:
3. The trials may be carried out at a location that is not defined until an infestation of the target pest has been found, only if the applicant:
 - i. has permission from the owner of the land to carry out the trial; and
 - ii. notifies ERMA New Zealand of the locations as per control 22.

Substance name	DASNZ004/04
ERMA Application number	HSC04024
ERMA Approval number	HSC000119
ERMA Applications Advisor	Beth Dye

Substance name	DASNZ005/04
ERMA Application number	HSC04024
ERMA Approval number	HSC000120
ERMA Applications Advisor	Beth Dye

4. The trial sites shall be chosen so as to prevent the substances entering any surface water or groundwater system.
5. The trial sites shall be located to prevent any building where people live or work being exposed to the substances.
6. Access to the trial sites shall be by permission of the Trial Director¹⁴ or owner of the property on which it is located. The trial site boundaries shall be clearly marked and distinctly visible from outside the trial site throughout the life of the trials. The trial sites shall be signed indicating that unauthorised access is not allowed, that the site is subject to a trial, and that the crops should not be removed or disturbed.
7. In any location where it is possible for grazing animals to access the trial site, the trial sites shall be secured by stock proof fencing to exclude grazing animals for the duration of the trial.
8. The substances shall be stored in accordance with the Code of Practice for the Management of Agrichemicals NZS8409.
9. The substances shall be mixed, diluted and prepared in any other way prior to application in accordance with the relevant sections of the Code of Practice for the Management of Agrichemicals NZS8409.
10. The substances shall be securely packed in suitable containers that comply with the Hazardous Substances (Packaging) Regulations 2001, and shall be labelled in accordance with the Hazardous Substances (Identification) Regulations 2001. A Safety Data Sheet shall accompany each shipment.
11. The substances shall be transported in compliance with any relevant requirements of the Land Transport Rule: Dangerous Goods 1999.
12. The substances shall be applied by way of hand-held/operator-worn equipment, using hydraulic pressure or compressed CO₂ or air on plots specifically designated and marked for each treatment, in accordance with the Code of Practice for the Management of Agrichemicals NZS8409. Special attention shall be paid to the minimisation of spray drift, and in particular to the avoidance of drift beyond boundaries agreed with the owner of the trial site.
13. The personnel applying the substances to the crops shall be able to demonstrate that they have the qualifications necessary to carry out the trial. Ways of demonstrating this would include the holding of an appropriate Growsafe certification or an Approved Handler qualification.
14. No sprayed produce shall be consumed by people or animals or offered for sale.
15. Sprayed produce shall be disposed of by ploughing in, by mulching, or by burial at an approved landfill (not to be diverted to any composting operation).
16. The amount of spray prepared shall be adequate for the trial site, but if there is any surplus spray mix it shall be disposed of within the trial site by being further diluted and sprayed over a marked and designated non-crop and non-grazed area at the site.
17. Any equipment used shall be rinsed after use with the appropriate detergent or decontaminant, and rinsate disposed of within the trial site by being sprayed over a marked and designated non-crop and non-grazed area at the site.
18. Surplus substances remaining at the end of the trials shall be returned to Dow AgroSciences Ltd for secure storage in an exempt laboratory, exported or degraded to non-hazardous substances (note that once the trials are complete the substances do not have approval to be present in New Zealand except in an exempt laboratory).
19. Any accidental spillage of the unmixed substances or spray mix shall be contained, prevented from entering waterways, and absorbed with an appropriate absorbent material. This material shall be placed into sealed containers and disposed of at an appropriate waste disposal facility (which may include a landfill), subject to the facility's waste acceptance policy.
20. A record shall be kept of all use of the substances. This record shall cover all matters referred to in Regulation 6 of the Hazardous Substances (Class 6, 8 and 9 Controls) Regulations 2001.
21. Information on appropriate safety precautions necessary to provide safeguards against the substances' toxic and ecotoxic properties shall accompany the substances at all stages of their lifecycle. Personal protective equipment shall be worn when handling the substances throughout their lifecycle.
22. Occupational Safety and Health, Head Office [Attn. HSNO Project Manager (OSH) or equivalent position] and ERMA New Zealand shall be informed in writing (by letter, fax or email) of the location, start, and completion of the trials. Notifications shall include the following details:

¹⁴ The Trial Director is the individual appointed by the applicant to be responsible for the overall conduct of the trial in accordance with the Management Plan and approval controls.

Substance name	WRS-X-F1
ERMA Application number	HSC04025
ERMA Approval number	HSC000121
ERMA Applications Advisor	Beth Dye

Substance name	WRS-X-F2
ERMA Application number	HSC04025
ERMA Approval number	HSC000122
ERMA Applications Advisor	Beth Dye

Substance name	WRS-X-F3
ERMA Application number	HSC04025
ERMA Approval number	HSC000123
ERMA Applications Advisor	Beth Dye

23. If for any reason a breach of containment occurs, the Trial Director shall notify OSH and ERMA New Zealand within 24 hours of the breach being detected. It is suggested that if a breach in containment results in contamination of a waterway, the relevant iwi authorities be advised.
24. The Authority or its authorised agent or properly authorised enforcement officers, may inspect the facilities and trial sites at any reasonable time.
25. This approval remains in place for the term of any concurrent approval required under the Agricultural Compounds and Veterinary Medicines Act 1997, to a maximum of five years.
26. The maximum total quantity of WRS-X-F1 that shall be imported or manufactured under this approval is ten litres. The maximum total quantity of WRS-X-F2 that shall be imported or manufactured under this approval is ten litres. The maximum total quantity of WRS-X-F3 that shall be imported or manufactured under this approval is ten litres.

Applicant: Scotts Australia Pty Limited

Application Code: HSR04053

Purpose: To import Defender Home Defense Outdoor Barrier Spray for the control of spiders, ants, fleas, papernest wasps, cockroaches, mosquitoes and flies before they can enter the home

Decision Notified: 06 October 2004

Decision: Approved with Controls

Identifier for Substance: Defender Home Defense Outdoor Barrier Spray

Classification: 9.1A Aquatic ecotoxicant, 9.4B Terrestrial invertebrate ecotoxicant

ERMA Approval Code: HSR000136

Controls:

Hazardous Substances (Classes 6, 8 and 9 Controls) Regulations 2001 - Ecotoxic Property Controls		
E3	49	Controls relating to protection of terrestrial invertebrates e.g. beneficial insects
E5	5(2), 6	Requirements for keeping records of use
E6	7	Requirements for equipment used to handle hazardous substances
E7	9	Approved handler requirements
Hazardous Substances (Identification) Regulations 2001		
I1	6, 7, 32–35, 36 (1)–(7)	General identification requirements
I3	9	Priority identifiers for ecotoxic substances
I9	18	Secondary identifiers for all hazardous substances
I11	20	Secondary identifiers for ecotoxic substances

I19	29–31	Alternative information in certain cases
I21	37–39, 47–50	Documentation required in places of work
I23	41	Specific documentation requirements for ecotoxic substances
I29	51–52	Duties of persons in charge of places with respect to signage
Hazardous Substances (Packaging) Regulations 2001		
P1	5, 6, 7 (1), 8	General packaging requirements
P3	9	Packaging requirements for substances packed in limited quantities
P15	21	Packaging requirements for ecotoxic substances
PG3	Schedule 3	This schedule describes the (minimum) packaging requirements that must be complied with for Defender Home Defense Outdoor Barrier Spray. The tests in Schedule 3 correlate to the packaging requirements of UN Packing Group III (UN PGIII).
Hazardous Substances (Disposal) Regulations 2001		
D5	9	Disposal requirements for ecotoxic substances
D6	10	Disposal requirements for packages
D7	11, 12	Disposal information requirements
D8	13, 14	Disposal documentation requirements
Hazardous Substances (Emergency Management) Regulations 2001		
EM1	6, 7, 9–11	Level 1 emergency management information: General requirements
EM7	8(f)	Information requirements for ecotoxic substances
EM8	12–16, 18–20	Level 2 emergency management documentation requirements
EM11	25–34	Level 3 emergency management requirements – emergency response plans
EM13	42	Level 3 emergency management requirements – signage
Hazardous Substances (Personnel Qualification) Regulations 2001		
AH1	4–6	Approved Handler requirements (including test certificate and qualification requirements)

Applicant: Electropar Limited

Application Code: HSR04046

Purpose: To import into New Zealand Xeconex Implosive Connectors for use in the construction and maintenance of electricity transmission line conductor strings

Decision Notified: 06 October 2004

Decision: Approved with Controls

Identifier for Substance: Xeconex Implosive Connectors

Classification: 1.1D and 1.4D Explosiveness

ERMA Approval Code: HSR000137

Controls:

The controls that apply to the Xeconex Implosive Connectors, are listed in;

Regulation 6(3) of the Hazardous Substances (Fireworks, Safety Ammunition, and Other Explosives Transfer) Regulations 2003.

TEST CERTIFIERS

The Chief Executive of the Environmental Risk Management Authority, acting under delegated power from the Authority, reached decisions on the following applications. The full requirements and limitations for the following Test Certifiers is available on our public register or website.

Applicant: Kevin Bailey

Region: Wellington

Decision: Approved with Limitations

Date of Approval: 08 October 2004

ERMA Approval Code: TST000098

Applicant: John Maber

Region: Waikato

Decision: Approved with Limitations

Date of Approval: 08 October 2004

ERMA Approval Code: TST000099

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