



To obtain a determination of whether an organism is a new organism

Send to Environmental Protection Authority preferably by email (neworganisms@epa.govt.nz) or alternatively by post (Private Bag 63002, Wellington 6140)
Payment must accompany final application; see our fees and charges schedule for details.

Application Number

Date

Completing this application form

1. This form is used when you wish to apply for a statutory determination under section 26 of the Hazardous Substances and New Organisms (HSNO) Act 1996 as to whether or not an organism is a new organism (i.e. whether the organism is regulated under the HSNO Act or not).
2. If you wish to make an application for approval of for use of a new organism, a different form will have to be used. All forms are available on our website.
3. It is recommended that you contact an Advisor at the Environmental Protection Authority (EPA) as early in the application process as possible. An Advisor can assist you with any questions you have during the preparation of your application.
4. Unless otherwise indicated, all sections of this form must be completed for the application to be formally received and assessed. If a section is not relevant to your application, please provide a comprehensive explanation why this does not apply. If you choose not to provide the specific information, you will need to apply for a waiver under section 59(3)(a)(ii) of the HSNO Act. This can be done by completing the section on the last page of this form.
5. Any extra material that does not fit in the application form must be clearly labelled and cross-referenced, and included with the application form when it is submitted.
6. Please add extra rows/tables where needed.
7. You must sign the final form (the EPA will accept electronically signed forms) and pay the application fee (including GST) unless you are already an approved EPA customer. To be recognised by the EPA as an “approved customer”, you must have submitted more than one application per month over the preceding six months, and have no history of delay in making payments, at the time of presenting an application.
8. Information about application fees is available on the EPA website.
9. All application communications from the EPA will be provided electronically, unless you specifically request otherwise.

Commercially sensitive information

10. Commercially sensitive information must be included in an appendix to this form and be identified as confidential. If you consider any information to be commercially sensitive, please show this in the relevant section of this form and cross reference to where that information is located in the confidential appendix.
11. Any information you supply to the EPA prior to formal lodgement of your application will not be publicly released. Following formal lodgement of your application any information in the body of this application form and any non-confidential appendices will become publicly available.
12. Once you have formally lodged your application with the EPA, any information you have supplied to the EPA about your application is subject to the Official Information Act 1982 (OIA). If a request is made for the release of information that you consider to be confidential, your view will be considered in a manner consistent with the OIA and with section 57 of the HSNO Act. You may be required to provide further justification for your claim of confidentiality.

Definitions

<p>Genetically Modified Organism (GMO)</p>	<p>Any organism in which any of the genes or other genetic material:</p> <ul style="list-style-type: none"> • Have been modified by <i>in vitro</i> techniques, or • Are inherited or otherwise derived, through any number of replications, from any genes or other genetic material which has been modified by <i>in vitro</i> techniques
<p>New Organism</p>	<p>A new organism is an organism that is any of the following:</p> <ul style="list-style-type: none"> • An organism belonging to a species that was not present in New Zealand immediately before 29 July 1998; • An organism belonging to a species, subspecies, infrasubspecies, variety, strain, or cultivar prescribed as a risk species, where that organism was not present in New Zealand at the time of promulgation of the relevant regulation; • An organism for which a containment approval has been given under the HSNO Act; • An organism for which a conditional release approval has been given under the HSNO Act; • A qualifying organism approved for release with controls under the HSNO Act; • A genetically modified organism; • An organism belonging to a species, subspecies, infrasubspecies, variety, strain, or cultivar that has been eradicated from New Zealand; • An organism present in New Zealand before 29 July 1998 in contravention of the Animals Act 1967 or the Plants Act 1970. This does not apply to the organism known as rabbit haemorrhagic disease virus, or rabbit calicivirus <p>A new organism does not cease to be a new organism because:</p> <ul style="list-style-type: none"> • It is subject to a conditional release approval; or • It is a qualifying organism approved for release with controls; or • It is an incidentally imported new organism

1. Applicant details

1.1. Applicant

Company Name: (if applicable) Ministry for Primary Industries

Contact Name: Barry Wards

Job Title: Specialist Adviser (HSNO)

Physical Address: 25 The Terrace, WELLINGTON 6140

Postal Address (provide only if not the same as the physical):

Phone (office and/or mobile): (04) 894 0475 / 029 894 0475

Fax: NA

Email: barry.wards@mpi.govt.nz

1.2. New Zealand agent or consultant (if applicable)

Company Name:

Contact Name:

Job Title:

Physical Address:

Postal Address (provide only if not the same as the physical):

Phone (office and/or mobile):

Fax:

Email:

2. Information about the organism

2.1. Name of organism

Identify the organism as fully as possible

Organism name: *Neocaridina denticulata* & *Caridina cantonensis*

Briefly describe the biological characteristics of the organism:

1. *Neocaridina denticulata* (Kemp, 1918)

Common name(s): Cherry shrimp, Japanese swamp shrimp, Red cherry shrimp

Other names: *Caridina denticulata*, *Neocaridina davidi*, *Neocaridina heteropoda*, *Neocaridina denticulata sinensis*

N. denticulata^{1,2} are a variety of freshwater shrimp from Taiwan and China and commonly kept in ornamental aquariums. Their natural colouration is green-brown, however the red morph is more frequently sold. The density of coloration on adult shrimp, dependent on breeding, determines their sale price and "quality" (grading). This "quality" is purely aesthetic, as the size, behavior and other characteristics of the animal is more or less equal across varieties. Full-grown cherry shrimp reach about 4 cm long. They prefer clean water, with a pH of 6.5-8, and a temperature of 14–29°C They are most comfortable at 22 C. Cherry shrimp are omnivores that may live 1–2 years.

Cherry shrimp are easy to care for in the home freshwater aquarium and breed well. They will adapt to a wide range of water conditions, and will thrive in the same conditions as many common aquarium fish. The shrimp spends a great deal of its time sitting on aquatic plants, and hiding in them for protection, especially after moulting. They also eat the film of algae and microorganisms that forms on plant leaves without harming the leaves in the process. Cherry shrimp respond to the colour of their background and substrate. If they are kept in a tank with light-coloured substrate, they will become paler, or even transparent. On a darker substrate, they take on their full red colouration. Colour intensity also depends on the types of food available (live foods and those high in protein



¹ Englund, R.A., and Y. Cai. 1999. The occurrence and description of *Neocaridina denticulata sinensis* (Kemp, 1918) (Crustacea: Decapoda: Atyidae), a new introduction to the Hawaiian Islands. Bishop Museum Occasional Papers(58):58-65.

² Nur, FAH & A. Christiana (2013). Breeding and Life Cycle of *Neocaridina denticulata sinensis* (Kemp, 1918) <http://scialert.net/fulltext/?doi=ajava.2013.108.115&org=10>

and fats are more beneficial than flake foods), water pH, and temperature.

Cherry shrimp is a non-aggressive shrimp. Female pregnant cherry shrimps tend to hide in the dark. If they feel endangered by predators, they will abandon their eggs. They need an environment with wood or plants such as Java moss in which to hide themselves and their babies.

1. *Caridina cantonensis* (Yu, 1938)

Common name(s): Bee shrimp, Black bee shrimp, Crystal bee shrimp, Blue bee shrimp, Golden bee shrimp (all varieties of the Bee shrimp))

Caridina cantonensis is a species of small freshwater shrimp native to China and known to live in mountain streams and rivulets. Like many of its congeners, this shrimp is a fully aquatic species with abbreviated larval development. They are filter feeders, but also eat small pieces of decayed vegetation and algae. Bee shrimp have a life span of about 18 months.



Bee shrimp are in demand as aquarium pets and there are many variants, some of which have been developed through selective breeding:

- The black bee shrimp, sometimes called the Crystal Bee, is the most common variety.
- The blue bee shrimp is a wild shrimp that is being harvested from streams in China to supply aquarium owners.
- The golden bee shrimp is has a white shell and orangy gold flesh.
- The crystal red shrimp (called "red bee shrimp" in Japan) is a red and white variety specially bred for the aquarium hobby industry.

Their biological characteristics and ecology are similar to *N. denticulata*. They are more difficult to farm than other shrimp because their health depends on being raised in soft water that matches the pH of their native streams

2.2. Regulatory status of the organism

Is the organism that is the subject of this application also the subject of:

An innovative medicine application as defined in section 23A of the Medicines Act 1981?

Yes No

An innovative agricultural compound application as defined in Part 6 of the Agricultural Compounds and Veterinary Medicines Act 1997?

Yes No

3. Evidence regarding whether the organism meets the definition of a new organism

Does the organism meet the definition of a new organism under the HSNO Act?

For example, does it belong to a species that was not present in New Zealand before July 29 1998? Is it a genetically modified organism? etc.

Describe the evidence you have to support this view, providing supporting materials in an appendix as appropriate.

MPI has no evidence indicating the either *Neocaridina denticulata* or *Caridina cantonensis* were present in New Zealand prior to 29 July 1998 and thereby contend that they are new organisms as defined under the HSNO Act 1996.

Both organisms are the subject of MPI investigations potentially involving the illegal introduction and communication of new organisms.

4. Checklist

This checklist is to be completed by the applicant

Application		Comments/justifications
All sections of the application form completed or you have requested an information waiver under section 59 of the HSNO Act	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If No, please discuss with an Advisor to enable your application to be further processed)	Information waiver requested because the organisms are the subject of an ongoing MPI investigation.
Confidential data as part of a separate, identified appendix	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No Appendix attached
Supplementary optional information attached:		
<ul style="list-style-type: none"> Copies of additional references 	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	References are hyperlinked
<ul style="list-style-type: none"> Relevant correspondence 	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No relevant correspondence
Administration		
Are you an approved EPA customer?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes are you an: Applicant: <input checked="" type="checkbox"/> Agent: <input type="checkbox"/>	
If you are not an approved customer, payment of fee will be by:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Payment to follow <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Payment to follow	
Electronic, signed copy of application e-mailed to the EPA	<input checked="" type="checkbox"/> Yes	

Signature of applicant or person authorised to sign on behalf of applicant

- I am making this application, or am authorised to sign on behalf of the applicant or applicant organisation.
- I have completed this application to the best of my ability and, as far as I am aware, the information I have provided in this application form is correct.

Barry Wards**19 September 2016****Signature****Date****Request for information waiver under section 59 of the HSNO Act**

- I request for the Authority to waive any legislative information requirements (i.e. concerning the information that has been supplied in my application) that my application does not meet (tick if applicable).

Please list below which section(s) of this form are relevant to the information waiver request:

Appendices and referenced material (if any) and glossary (if required)