

Official Information Act Request

Requester's details

Date: 15 July 2022

Name: [REDACTED]

Organisation: [REDACTED]

Email: [REDACTED]

Reference number: ENQ-44199-P4S5W1

Dear [REDACTED]

Thank you for your request received on 22 June 2022 for the following information:

“Please advise if 1080 toxin or its metabolites can cause sterility in crayfish, lizards, frogs, kauri snails, birds, bats or insects”

The most recent and thorough evaluation of 1080 (sodium fluoroacetate) and the various substances containing this active ingredient was conducted as part of the reassessment HRE05002 that was concluded in 2007.

Information related to this reassessment can be found on our website at [HSNO application register | EPA](#)

This reassessment took a number of different aspects into consideration but there are two documents that are relevant to your question.

Information available on our website in: [Appendix C](#) of the Evaluation and Review Report Ecotoxicity and Environmental Fate of 1080. This appendix includes Sub-class 9.1: Aquatic ecotoxicity, fate and degradation of 1080. The following organisms were considered as part of the evaluation:

- Crayfish (see page 363-364)
- Reptiles and amphibians (section C4.3 pages 414-418, this covers both frogs and lizards/geckoes/tuatara)
- Soil-dwelling invertebrates (section C3.2.1 pages 384-388, this covers both earthworms and snails)
- Terrestrial Invertebrates (section C5, pages 421-431 covering insects)
- Bats (section C4.1.1, page 392)
- Birds (section C4.2, page 400-414)

The data available is focused on acute effects as opposed to chronic effects (sterility effects would typically be categorized as chronic effects). Some information on chronic effects is available on birds/starlings (Section C4.2.2; page 414), insects (page 427) and earthworms (pages 386-387). The data available for all these different organisms varies from limited to extensive. 1080 is classified as Category 1 (known or presumed human reproductive toxicant) for reproductive toxicity based on mammals' study results.

Exposure and Risk Assessment (1080): Non-Target Species [Appendix N](#) This document considers the reliability, availability or absence of data for the various non-target organisms. Where risks have been identified or where it was not possible to characterize them, controls were imposed on the various 1080 containing-substances to reduce potential risks associated with the respective hazards.

You have the right to seek an investigation and review by the Ombudsman of this decision. You can contact the Ombudsman on 0800 802 602, or by email at info@ombudsman.parliament.nz

If you have any further queries, please do not hesitate to contact us via ministerials@epa.govt.nz

We may publish your request and our response on our website, www.epa.govt.nz. We make OIA responses available so others can read more about the work we do and the questions we are asked. Any information that might identify you will be removed to protect your privacy.

Yours sincerely

A handwritten signature in blue ink that reads "Chris Hill".

Dr Christopher Hill
General Manager, Hazardous Substances and New Organisms