Health Canada Santé Canada

Evaluation Report for Category B, Subcategory 2.1 Application

Application Number: 2011-5428
Application: B.2.1 (Product chemistry – guarantee)
Product: Liquid 2% Strychnine Concentrate
Registration Number: 30434
Active ingredients (a.i.): Strychnine (STR)
PMRA Document Number : 2149980

Purpose of Application

The purpose of this application was to register a new end-use product, based on previous applications for restricted use emergency registrations of Liquid 2% Strychnine Concentrate for the control of Richardson's ground squirrels (Registration Number 28784).

Chemistry Assessment

Liquid 2% Strychnine Concentrate, is formulated as a solution containing strychnine at a nominal concentration of 2.0%. This end-use product has a density of 1.01 kg/L. There are no further chemistry data requirements at this time.

Health Assessments

Strychnine is highly acutely toxic via the oral and ocular routes of exposure. It is of low acute toxicity via the dermal route. Strychnine is extremely irritating to the eyes and non-irritating to the skin. Considering the high acute toxicity from the oral and ocular routes of exposure, a default of high acute toxicity was assigned to the inhalation route. The dermal sensitization potential was not determined; however the use of chemical resistant gloves is required on the label.

A food residue assessment was not required for this application.

The registration of Liquid 2% Strychnine Concentrate can be supported. Mitigation measures including long-sleeved shirt, long pants, chemical-resistant gloves, and dust mask for mixers and applicators, and label directions and restrictions, are considered to be adequate to address acute exposures. Bystander exposure is considered to be minimal, and not of concern.

Environmental Assessment

An environmental assessment was not conducted for this application as no additional environmental data were required to support the full registration of the restricted product, Liquid

2% Strychnine Concentrate. The submitted labels were reviewed and no label amendments are required. Restrictions and environmental hazard statements present on the label are consistent with the previous emergency registrations and are considered adequate. The PMRA notes that assessment of the continued use of strychnine following this registration will be addressed through the re-evaluation of this active ingredient.

Strychnine is not classified as a TSMP Track-1 substance, and the end-use product does not contain formulants of environmental concern.

Value Assessment

The value of Liquid 2% Strychnine Concentrate is based on similar ready-to-use strychnine products registered to control Richardson's ground squirrels.

Conclusion

The PMRA has completed an assessment of the available information and is able to support the registration of Liquid 2% Strychnine Concentrate.

References

None.

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