

Evaluation Report for Category B, Subcategory B.3.11 Application

Application Number: 2024-1771
Application: B3.11 New Pests and F3.23 Product Name Change
Applicant: Security Equipment Corporation
Product: Frontiersman Xtra Bear and Mountain Lion Attack Deterrent
Registration Number: 28410
Active ingredients (a.i.): Capsaicin (CAS) and related capsaicinoids (RCS)
PMRA Document Number: 3633325

Background

Frontiersman Xtra Bear Attack Deterrent was originally registered to deter attacks on humans by aggressive bears. Please refer to the product label for complete use directions.

Purpose of Application

The purpose of this application was to add a label claim for mountain lions, also known as cougars or pumas, and to amend the product name to Frontiersman Xtra Bear and Mountain Lion Attack Deterrent.

Chemistry, Health and Environmental Assessments

Chemistry, health and environmental assessments were not required because there was no change to the product formulation and because there was no change to the use pattern, including application rates, methods and timings.

Value Assessment

Scientific evidence that a receptor for capsaicin is common to all mammals, recommendations of wildlife professionals to use capsaicin products to aid in deterring attacks by mountain lions, and documented instances of mountain lions stalking or attacking humans and being deterred by capsaicin spray products supported the addition of a claim for mountain lions and the associated product name amendment to Frontiersman Xtra Bear and Mountain Lion Deterrent.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information acceptable to support the addition of claims to deter attacks by mountain lions / cougars / pumas and to amend the product name to Frontiersman Xtra Bear and Mountain Lion Attack Deterrent.

References

PMRA

Document

Number

Reference

- 3582529 2024, The Response of the TRPV1 Receptor to Capsaicinoids in Mammals, DACO: 10.6
- 3582530 Caterina, M.J., Schumacher, M.A., Tominaga, M., Rosen, T.A., Levine, J.D., and Julius, D., 1997, The capsaicin receptor: a heat-activated ion channel in the pain pathway, Nature 389: 816-824, DACO: 10.6
- 3582531 Mishra, S.K., Tisel, S.M., Orestes, P., Bhangoo, S.K., and Hoon, M.A., 2011, TRPV1-lineage neurons are required for thermal sensation, The EMBO Journal 30(3): 582-593, DACO: 10.6
- 3582532 Pogorzala, L.A., Mishra, S.K., and Hoon, M.A., 2013, The cellular code for mammalian thermosensation, Journal of Neuroscience 33(13): 5533-5541, DACO: 10.6
- 3582536 2024, Value Summary for FRONTIERSMAN XTRA BEAR & MOUNTAIN LION ATTACK DETERRENT, DACO: 10.1
- 3582539 Stanford Environmental Health and Safety, 2022, Large Predator Fact Sheet, DACO: 10.2.2
- 3582541 Brown, D.E., and Conover, M.R., 2008, How people should respond when encountering a large carnivore: opinions of wildlife professionals, Human-Wildlife Conflicts 2(2):194-199, DACO: 10.2.4
- 3582542 Washington Department of Fish and Wildlife, 2021, The truth about bear spray - it's not just for bears, <https://wdfw.medium.com/the-truth-about-bear-spray-its-not-just-for-bears-13191225129f>, DACO: 10.2.4

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