Health Canada Santé Canada

Evaluation Report for Category B, Subcategory 2.1 Application

Application Number: 2022-2294
Application: New End-use Product (Product Chemistry) - Guarantee
Product: StrikeLock
Registration Number: 34946
Active ingredient (a.i.): Surfactant blend
PMRA Document Number : **3500896**

Purpose of Application

The purpose of this application was to register a new adjuvant product, StrikeLock, designed to be used with herbicide products that are labeled for use with a non-ionic surfactant.

Chemistry Assessment

StrikeLock is formulated as a liquid containing a surfactant blend at a concentration of 100%. This end-use product has a density of 0.932 g/cm^3 and pH of 4.94. The required chemistry data for StrikeLock have been provided, reviewed and found to be acceptable.

Health Assessments

StrikeLock is of low acute toxicity by the oral, dermal, and inhalation routes. It is minimally irritating to eyes and non-irritating to skin. It does not produce allergic skin reactions.

The use pattern of StrikeLock is similar to that of other registered surfactant blends. Since it is to be used with labeled herbicides, the use pattern of StrikeLock is dependent on the registered use pattern of the subsequent product that it is combined with. No health risks of concern are expected from the labeled uses, provided workers follow the label directions and wear the personal protective equipment identified on the label.

No new residue data were submitted or were required to support the registration of StrikeLock. Previously reviewed residue data on file for the active ingredients contained in the tank-mix partner products are adequate to support the uses of StrikeLock.

Exposure to residues of clodinafop-propargyl, clethodim, and quizalofop-P-ethyl in the tank-mix partner products of StrikeLock in/on treated food commodities is not expected to be greater than that from the current uses and will be covered under the respective established maximum residue limits (MRLs) given that the herbicide end-use products to be applied with StrikeLock are already registered for use with a specific adjuvant or specific type(s) of adjuvants at similar rates. Consequently, dietary exposure to residues of these active ingredients is not expected to increase with the registration of StrikeLock and will not pose health risks of concern to any segment of the population, including infants, children, adults and seniors.

Environmental Assessment

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The registration of StrikeLock is acceptable from an environmental perspective.

Value Assessment

Value information submitted for review included performance data from replicated field research trials as well as extrapolation rationales based on labels of registered herbicide products. The information collectively supports the use of StrikeLock at 0.5% v/v with Cadillac 240 Unpacked, Nufarm Signal Herbicide, Arrow 240 EC Herbicide, Marshall, Yuma GL Liquid EC Herbicide, Leopard, and Assure II Herbicide.

The availability of StrikeLock for application with the above listed herbicide products provides users an additional adjuvant option and increased flexibility to choose among adjuvant products listed on the herbicide product labels based on availability, price point and personal preference.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information acceptable to support the registration of StrikeLock.

References

PMRA Document Number	Reference
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3361406	2022, 3.5.4, 3.5.5, DACO: 3.5.4,3.5.5 CBI
3361407	2022, DACO 3.5.12_Explodability, DACO: 3.5.12 CBI
3361408	2022, DACO 3.5.13_Miscibility, DACO: 3.5.13 CBI
3361409	2022, DACO 3.5.15_Dielectric Breakdown Voltage, DACO: 3.5.15 CBI
3361410	2022, Physical and Chemical Properties and Storage Stability and Corrosion Characteristics of Strikelock, DACO: 3.5.1,3.5.10,3.5.11,3.5.14,3.5.2,3.5.3, 3.5.6,3.5.7,3.5.8,3.5.9 CBI
3363794	2022, Manufacturing & Packaging, DACO: 3.2.1,3.2.2 CBI
3361464	2016, StrikeLock Acute Oral Toxicity (UDP) In Rats, DACO: 4.6.1
3361465	2016, StrikeLock Acute Dermal Toxicity In Rats, DACO: 4.6.2
3361466	2016, StrikeLock Acute Inhalation Toxicity In Rats, DACO: 4.6.3
3361467	2016, StrikeLock Acute Eye Irritation In Rabbits, DACO: 4.6.4
3361468	2016, StrikeLock Acute Dermal Irritation In Rabbits, DACO: 4.6.5
3361469	2016, StrikeLock Skin Sensitization In Guinea Pigs, DACO: 4.6.6
3361422	2022, 10.1_Strikelock_2Feb2022, DACO: 10.1,10.3.1,10.3.2,10.4,10.5.1
3361423	2022, Wheat1_Strikelock_Crestivo_Fargo_ND_2021, DACO: 10.2.3,10.2.3.3(B),10.3.2(A)
3361424	2022, Wheat2_Strikelock_Crestivo_American Falls_ID_2021, DACO: 10.2.3,10.2.3.3(B),10.3.2(A)
3361425	2022, Wheat3_Strikelock_Crestivo_Rosemount_MN_2021, DACO: 10.2.3,10.2.3.3(B),10.3.2(A)

3361426	2022, Wheat4_Strikelock_Crestivo_Saskatoon_SK_2021, DACO: 10.2.3,10.2.3.3(B),10.3.2(A)
3361427	2022, Wheat5_Strikelock_Cadillac_Fargo_ND_2021, DACO: 10.2.3,10.2.3.3(B),10.3.2(A)
3361428	2022, Wheat6_Strikelock_Cadillac_Rosemount_MN_2021, DACO: 10.2.3,10.2.3.3(B),10.3.2(A)
3361429	2022, Wheat7_Strikelock_Cadillac_Rosemount_MN_2021, DACO: 10.2.3,10.2.3.3(B),10.3.2(A)
3361430	2022, Wheat8_Strikelock_Cadillac_Saskatoon_SK_2021, DACO: 10.2.3,10.2.3.3(B),10.3.2(A)
3361431	2022, Wheat9_Strikelock_Cadillac_Saskatoon_SK_2021, DACO: 10.2.3,10.2.3.3(B),10.3.2(A)
3361432	2022, Barley1_Strikelock_Crestivo_Berthold_ND_2021, DACO: 10.2.3,10.2.3.3(B),10.3.2(A)
3361433	2022, Barley2_Strikelock_Crestivo_Saskatoon_SK_2021, DACO: 10.2.3,10.2.3.3(B),10.3.2(A)
3361434	2022, Pea1_Strikelock_Antler_Saskatoon_SK_2021, DACO: 10.2.3,10.2.3.3(B),10.3.2(A)
3361435	2022, Canola1_Strikelock_Antler_Rosemount_MN_2021, DACO: 10.2.3,10.2.3.3(B),10.3.2(A)
3361436	2022, Canola2_Strikelock_Antler_Velva_ND_2021, DACO: 10.2.3,10.2.3.3(B),10.3.2(A)
3361437	2022, Canola3_Strikelock_Antler_Rosemount_MN_2021, DACO: 10.2.3,10.2.3.3(B),10.3.2(A)
3361438	2022, Canola4_Strikelock_Antler_Berthold_ND_2021, DACO: 10.2.3,10.2.3.3(B),10.3.2(A)
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3361440	2022, Canola6_Strikelock_Marshall_Saskatoon_SK_2021, DACO: 10.2.3,10.2.3.3(B),10.3.2(A)
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3361446	2022, Soybean1_Strikelock_Antler_River Falls_WI_2021, DACO: 10.2.3,10.2.3.3(B),10.3.2(A)
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3361449	2022, Soybean4_Strikelock_Antler_Exeter_ON_2021, DACO: 10.2.3,10.2.3.3(B),10.3.2(A)

3361450	2022, Soybean5_Strikelock_Antler_River Falls_WI_2021, DACO: 10.2.3,10.2.3.3(B),10.3.2(A)
3361451	2022, Soybean6_Strikelock_Antler_St. Cloud_MN_2021, DACO: 10.2.3,10.2.3.3(B),10.3.2(A)
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3361457	2022, Soybean12_Strikelock_Antler_Exeter_ON_2021, DACO: 10.2.3,10.2.3.3(B),10.3.2(A)
3361458	2022, Soybean13_Strikelock_Antler_River Falls_WI_2021, DACO: 10.2.3,10.2.3.3(B),10.3.2(A)
3361459	2022, Soybean14_Strikelock_Antler_St. Cloud_MN_2021, DACO: 10.2.3,10.2.3.3(B),10.3.2(A)
3361460	2022, Soybean15_Strikelock_Antler_Brookings_SD_2021, DACO: 10.2.3,10.2.3.3(B),10.3.2(A)
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