

Evaluation Report for Category B, Subcategory 2.1, 2.3, 2.4, 3.11, 3.12 Application

Application Number: 2018-2485
Application: New End-Use Product; New Chemistry, Pests and Site
Product: Pledge Cleaner Clean Antibacterial Multisurface Cleaner
Registration Number: 33654
Active ingredients (a.i.): N-Alkyl(68% C12, 32% C14)Dimethylethylbenzylammonium Chloride
and
N-Alkyl(5% C12, 60% C14, 30% C16, 5% C18)
Dimethylbenzylammonium Chloride

PMRA Document Number: 3068812

Purpose of Application

The purpose of this application was to register Pledge Cleaner Clean Antibacterial Multisurface Cleaner for use as a domestic class sanitizer for hard surfaces.

Chemistry Assessment

Pledge Cleaner Clean Antibacterial Multisurface Cleaner is formulated as a pressurized product containing n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride and n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride each at a nominal concentration of 0.0125%. This end-use product has a density of 0.996 g/mL and pH of 5.94. The required chemistry data for Pledge Cleaner Clean Antibacterial Multisurface Cleaner have been provided, reviewed and found to be acceptable.

Health Assessments

Pledge Cleaner Clean Antibacterial Multisurface Cleaner is of low acute toxicity via the oral, dermal, and inhalation routes. It is minimally irritating to the eyes and skin, and is not considered to be a dermal sensitizer.

The use of Pledge Cleaner Clean Antibacterial Multifsurface Cleaner on hard surfaces is not expected to result in potential residential or bystander exposure greater than the registered uses of n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride and n-Alkyl (5% C12, 60% C14, 30% C16, 5% C18) dimethyl benzyl ammonium chloride. No risks of concern are expected when residential handlers follow label directions and wear rubber gloves as stated on the label.

A food residue assessment was not required for this application.

Environmental Assessment

An environmental assessment was not required for this application.

Value Assessment

Five scientifically valid, laboratory studies were provided to support the value of the product as a hard surface sanitizer. Four studies were conducted using representative bacterial species and one using a fungal species. These studies demonstrated that the product was able to reduce the microbes by greater than 99.9%. Therefore, this product has been shown to have acceptable value.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to register Pledge Cleaner Clean Antibacterial Multisurface Cleaner for use as a domestic class sanitizer for hard surfaces.

References

PMRA

Document

Number	Reference
2892721	2018, Product Identification, DACO: 3.1.1, 3.1.2, 3.1.3, 3.1.4 CBI
2892722	2010, Product Chemistry Data for Petrie 1, Formula Number 16806H130-1, DACO: 3.2.1, 3.2.2, 3.2.3, 3.3.1, 3.4.1 CBI
2892723	2010, Physical and Chemical Characteristics: Color, Physical state, Odor, Oxidation/Reduction, Flammability, pH Viscosity and Density/Relative Density, DACO: 3.5.1, 3.5.11, 3.5.2, 3.5.3, 3.5.4, 3.5.6, 3.5.7, 3.5.8, 3.5.9 CBI
2892724	2018, Waiver Requests and Container Information, DACO: 3.5.12, 3.5.13, 3.5.15, 3.5.5 CBI
2892725	2013, Storage stability and Corrosion Characteristics, DACO: 3.5.10, 3.5.14 CBI
3008614	2016, Quantification of BTC 2125M in Hard Surface Cleaners by HPLC, DACO: 3.4.1 CBI
2892726	2010, Acute Oral Toxicity Up and Down Procedure in Rats, DACO 4.6.1
2892727	2010, Acute Dermal Toxicity Study in Rats, DACO 4.6.2
2892728	2010, Acute Inhalation Toxicity Study in Rats, DACO 4.6.3
2892729	2010, Primary Eye Irritation Study in Rabbits, DACO 4.6.4
2892730	2010, Primary Skin irritation Study in Rabbits, DACO 4.6.5
2892731	2010, Dermal Sensitization Study in Guinea Pigs (Buehler Method), DACO 4.6.6
2892734	2018, Value Summaries, DACO: 10.1,10.2.1,10.2.2,10.2.3.1,10.3.1,10.3.2
2892735	2017, Standard Test Method for Efficacy of Sanitizers Recommended for Inanimate Non-Food Contact Surfaces (Modification for Spray Product Application), Test Organism(s): <i>Klebsiella pneumoniae</i> (ATCC 4352), DACO: 10.2.3.2
2892736	2017, Standard Test Method for Efficacy of Sanitizers Recommended for Inanimate Non-Food Contact Surfaces (Modification for Spray Product Application), Test Organism(s): <i>Salmonella</i> Enterica (ATCC 10708), DACO: 10.2.3.2
2892737	2017, Standard Test Method for Efficacy of Sanitizers Recommended for Inanimate Non-Food Contact Surfaces (Modification for Spray Product Application), Test Organism(s): <i>Klebsiella pneumoniae</i> (ATCC 4352), <i>Staphylococcus aureus</i> (ATCC 6538), DACO: 10.2.3.2
2892738	2017, Standard Test Method for Efficacy of Sanitizers Recommended for Inanimate Non-Food Contact Surfaces (Modification for Spray Product Application), Test Organism(s): <i>Escherichia coli</i> (ATCC 11229), DACO: 10.2.3.2
2892739	2010, EPA Hard Surface Mildew-Fungistatic Test, Test Organism: <i>Aspergillus niger</i> (ATCC 6275), DACO: 10.2.3.2

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