

Evaluation Report for Category B, Subcategory 1.3 Application

Application Number: 2014-1146
Application: New / Changes TGAI or ISP Prod Chemistry-Specifications
Product: Repak Calcium Hypochlorite
Registration Number: 18123
Active ingredients (a.i.): Available chlorine, present as calcium hypochlorite
PMRA Document Number: 2494854

Purpose of Application

The purpose of this application was to amend the product label to add a quick dissolving claim to Repak Calcium Hypochlorite, a technical grade active ingredient to be used as a swimming pool sanitizer.

Chemistry Assessment

Common Name: No ISO approved common name, calcium hypochlorite is the accepted name.
Chemical Name: hypochlorous acid, calcium salt (2:1)

Repak Calcium Hypochlorite has the following properties:

Property	Result
Colour and physical state	White solid
Nominal concentration	Available chlorine 68.63% present as calcium hypochlorite
Odour	slight chlorine odour
Specific gravity	0.99-1.07
Vapour pressure	Not applicable as the product is a solid
pH	7.7 (1% solution)
Solubility in water	217 g/L (27°C)
n-Octanol/water partition coefficient	Not applicable. The product is practically insoluble in octanol and is an inorganic salt

The chemistry requirements for Repak Calcium Hypochlorite have been completed.

Health and Environmental Assessments

Health and environmental assessments were not required for this application.

Value Assessment

Calcium hypochlorite is an effective pool sanitizer when maintained at 1-3 ppm of free available chlorine in the pool water. When adding calcium hypochlorite to a pool, the time required to achieve this rate depends on the dissolution rate. Due to the smaller granule size of Repak Q relative to Repak, it is expected to dissolve more quickly in a given volume of water.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided to add a quick dissolving claim to the label, and is able to continue to support the registration of Repak Calcium Hypochlorite.

References

PMRA Document Number	Reference
2480417	2014, Batch Data - granule size for REPAK Q, DACO: 2.13.3
2480418	2014, Batch Data - granule size for REPAK Calcium Hypochlorite (PCP18123), DACO: 2.13.3

ISSN: 1911-8082

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