

Evaluation Report for Category B, Subcategory 2.1 Application

Application Number: 2013-4802
Application: New EP
Product: SALTRON MINI
Registration Number: 31268
Active ingredients (a.i.): Device [ZZZ]
PMRA Document Number: 2374925

Purpose of Application

The purpose of this application was to register the Saltron Mini (Model CLG02A) chlorine generator for residential spas and swim spas.

Chemistry Assessment

A chemistry assessment was not required.

Health Assessments

The Saltron Mini operates similarly to other, previously registered, electrolytic spa and pool chlorinators by converting salt (NaCl) added to the spa water to hypochlorous acid (HOCl) which oxidizes algae and bacteria in the spa water.

It is unlikely that there will be exposure to spa water treated by this device during the installation of the device. Exposures are possible during the sampling of the spa water for various parameters (e.g., pH, chlorine residual, etc.) and during the cleaning and maintenance of the spa, but these dermal exposures are likely to be minimal. More extensive dermal exposure to the spa water could occur during recreational use of the spas and swim spas (i.e., bathing and swimming), along with accidental ingestion of small amounts of spa water.

This type of spa chlorinator has been in use in Canada and other countries for many years. The operating parameters for the device (e.g., levels of salt, volumes of spa water to be treated, amount of free chlorine generated per day, etc.) are similar to or lower than the ranges for previously registered chlorine generating devices. Also, similar to many previously registered electrolytic spa chlorinators, the device utilizes electrodes with a proprietary coating which is expected to provide corrosion resistance and a long service life. As a result, very little electrode material is likely to wear off into the spa water and any material released would be in the form of solid particles, insoluble in water and filtered out by the spa filtration system.

Therefore, the device is not expected to increase exposures to or human health risks during the installation and operation of the device, and during the use of the spa by recreational bathers and swimmers compared to previously registered electrolytic spa and pool chlorinators.

Incident Reports

As of November 20, 2013 there have been no incidents reported for swimming pool or spa devices in Canada.

Environmental Assessment

An environmental assessment was not required.

Value Assessment

Efficacy data was submitted to confirm the daily free available chlorine output of Saltron Mini for both spas and swim spas. The maximum free available chlorine (FAC) generated per day is sufficient (0.032 kg/day), based on the maximum spa volume stated on the label (5 700 L), to provide daily FAC residuals within the recommended 3-5 ppm range. A certificate of electrical safety has been provided to confirm that this device can be used in spas. The use of Saltron Mini for use in spas is acceptable.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support of the product, Saltron Mini, and has found the information sufficient to register this new end-use product.

References

A. List of Studies/Information Submitted by Registrant

PMRA Document Number	Reference
2341237	2013, Saltron Mini (Model No.: CLG02A), DACO: 1.1.1, 1.4, 10.2.3.4, 10.6, 10.7.2, 2.1, 2.2, 2.3, 4.1, 5.1
2341244	2013, Swimming Pool Electrode Description, DACO: 4.1
2341247	2013, Intertek ETL authorization to mark, DACO: 10.6
2341248	2013, Intertek Listing Constructional Data Report (CDR), DACO: 10.6
2341245	2013: Chlorine output test report, DACO: 10.2.3.4

B. Additional Information Considered

PMRA Document Number	Reference
2309581	2012, Seymour, R.J. and O'Farrelly, J., Platinum-Group Metals, Kirk-Othmer Encyclopedia of Chemical Technology John Wiley & Sons Inc., DACO: 12.5.5
2309582	1982, World Health Organization (WHO), Titanium Environmental Health Criteria 24, International Programme on Chemical Safety http://www.inchem.org/documents/ehc/ehc/ehc24.htm , DACO: 12.5.4
2309583	2012, Canadian Centre for Occupational Health and Safety (CCOHS), Ruthenium Oxide, Registry of Toxic Effects of Chemical Substances (RTECS), DACO: 12.5.4
2370003	2012, Czerczak, S., Gromiec, J.P., Palaszewska-Tkacz, A., and Swidwinska-Gajewska, A., Nickel, Ruthenium, Rhodium, Palladium, Patty's Toxicology Sixth Edition Volume 1 Bingham, E. and Cohrsen, B. Chapter 19, DACO: 12.5.4
2370005	2010, International Agency for Research on Cancer (IARC), Carbon Black, Titanium Dioxide and Talc, IARC Monographs on the Evaluation of Carcinogenic Risks to Humans Volume 93, DACO: 12.5.4
2370006	2013, Canadian Centre for Occupational Health and Safety (CCOHS), Titanium Oxide, Registry of Toxic Effects of Chemical Substances (RTECS), DACO: 12.5.4

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