

## Evaluation Report for Category B, Subcategory 2.1 Application

**Application Number:** 2010-5745  
**Application:** B.2.1 – New product chemistry  
**Product:** Pool Pilot Digital Nano  
**Registration Number:** 30494  
**Active ingredients (a.i.):** Device  
**PMRA Document Number :** 2174491

### Purpose of Application

The purpose of this application was to register Pool Pilot Deluxe Nano, a new chlorine generator, for swimming pools and spas,

### Health Assessments

There is a long history of use of chlorine generator type pool and spa bactericide and algacide devices in Canada. Pool Pilot Digital Nano is similar to and uses the same electrolytic cell as a previously registered device from the same registrant. The recommended minimum levels of chlorine for pools and spas treated by the device are the same as for the previously registered device (Lectranator Digital Model DIG36 (Reg. No. 27845) and correspond to Health Canada recommended minimum levels of pool and spa sanitizers. Finally, recommended pool and spa salt concentrations and levels of other parameters (e.g., pH, total alkalinity, calcium hardness, etc.) are similar to those for the previously registered device.

The likelihood of exposure to water treated by the devices during the installation, operation, and maintenance of the device is low. Limited dermal exposure could occur when the pool water is tested for free chlorine, salt and other parameters. Recreational users of pools (i.e., bathers) could have dermal exposure to treated pool water for varying periods of time and oral exposure through accidental ingestion of small amounts of water.

Given the history of the registration and use of these types of devices, the fact that this device uses the same electrolytic cell and have very similar operating parameters to a previously registered device from the same applicant, it is not expected that the installation, operation or maintenance of this device or recreational use of water treated by it will increase exposures to free chlorine, salt, or other parameters compared to similar exposures from the use of the previously registered device. Consequently, a quantitative exposure assessment is not required, and the potential risks to human health from the installation, operation, and maintenance of the device or recreational use of water treated by the device are not expected to be of concern.

### Incident Reports

Since April 26, 2007, registrants have been required by law to report incidents, including adverse effects to health and the environment, to the PMRA within a set time frame. Information on the

reporting of incidents can be found on the PMRA website. Incidents from Canada were searched and reviewed for swimming pool and spa chlorination devices.

As of February 9, 2012, there have been no incidents reported for swimming pool and spa chlorination devices in Canada. In addition, a search of the California Department of Pesticide Regulation did not identify any incidents related to the use of swimming pool and spa chlorination devices.

### **Value Assessment**

Efficacy data from a laboratory trial was submitted to confirm the daily free available chlorine (FAC) output of Pool Pilot Digital Nano. The device can generate a maximum of 0.25 kg of FAC per day which is sufficient to generate 1-3 ppm of FAC in the maximum pool volume which can be treated with one device (75000 L). Furthermore, as spas usually have smaller volumes than 75 000L, the device will also be able to maintain 3-5 ppm of FAC in spas. Therefore, the use Pool Pilot Digital Nano for use in domestic swimming pools and spas is acceptable.

### **Environmental and Chemistry Assessments**

Environmental and chemistry assessments were not required for this application.

### **Conclusion**

The PMRA has reviewed the available data and information provided and has determined this product is acceptable for registration.

### **References**

- 2044363 2008, Electrical Safety, DACO: 10.6
- 2062893 2011, Test parameters and summary, DACO: 10.2.3.1
- 2062894 2011, Test Results, DACO: 10.2.3
- 2069009 2011, Use Description Digital Nano, DACO: 5.2
- 2161134 DACO: 5.2\_DOC

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