



## Evaluation Report for Category B, Subcategory 3.12 Application

**Application Number:** 2011-5023  
**Application:** Changes to product label, new site  
**Product:** Purate  
**Registration Number:** 29887  
**Active ingredients (a.i.):** Sodium chlorate  
**PMRA Document Number :** 2153408

### Purpose of Application

The purpose of this application was to expand the use of the end-use product, Purate (registration number 29887; guarantee 40% sodium chlorate), to control microorganisms that form slime in recirculating cooling systems.

### Chemistry Assessment

A chemistry assessment was not required for this application.

### Health Assessments

The addition of a new site to the approved label does not impact the toxicity profile of the product. Therefore, there are no changes to the existing toxicity profile for this product.

A qualitative health assessment has been conducted for Purate for microorganism control in recirculating cooling system and paper process water in pulp and paper mills, containing active ingredient sodium chlorate at a guarantee of 40% for use in the SVP-Pure Chlorine Dioxide Generator (a pesticide device that produces chlorine dioxide absorbed into water). Purate is within the current use patterns for the active ingredient. Therefore, exposure to the sodium chlorate is not expected to increase over the exposure from the currently registered product.

### Environmental Assessment

An environmental assessment was not conducted as the use expansion is not expected to result in a potential increase in the environmental exposure and impact from that of the currently registered uses.

### Value Assessment

One operational trial from a power plant cooling tower in Australia was provided to support the addition of recirculating cooling systems to the Purate label. The data consisted of monitoring free-floating bacteria and metal corrosion in the cooling water weekly over a four-year period during which the biocide system was converted from a sodium hypochlorite treatment to the generation of chlorine dioxide. The results from this bacterial monitoring, along with operational

observations demonstrated that Purate was an effective slimicide for use in recirculating cooling waters.

## **Conclusion**

Following the review of all available data, the label expansion of Purate, to include control of slime forming organisms in recirculating cooling systems has been approved.

## **References**

PMRA Document Reference

Number

2117608

Chlorine Dioxide at TRUEnergy Yallourn: First Practical Experiences, DACO 10.2.3.4

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