

## Evaluation Report for Category B, Subcategory 2.1, 2.3 and 2.4 Application

**Application Number:** 2007-4499  
**Application:** New end-use product chemistry including guarantee, identity and proportion of formulants.  
**Product:** BromMax 7.1  
**Registration Number:** 29408  
**Active ingredients (a.i.):** Sodium bromide and Sodium hypochlorite  
**PMRA Document Number :** 1792661

### Purpose of Application

The purpose of this application was to register a new slimicide end-use product, BromMax 7.1, containing the actives sodium bromide (Registration number 22737) and chlorine present as trichloro-s-triazinetrione (Registration number 26629) for use in cooling tower waters, heat exchangers, air washers, and pulp and paper mill influent waters.

### Chemistry Assessment

BromMax 7.1 is a solution containing the active ingredients available chlorine present as trichloro-s-triazinetrione and sodium bromide at nominal concentration of 7.45% and 10.09% respectively. This product has a density of 1.473 g/mL and pH of 12.16. The chemistry requirements for BromMax 7.1 have been completed.

### Health Assessments

BromMax 7.1 is of low toxicity to rats via the oral (LD<sub>50</sub> greater than 5000 mg/kg), dermal (LD<sub>50</sub> greater than 2000 mg/kg), and inhalation (LC<sub>50</sub> greater than 2.13 mg/L) routes. It is expected to be corrosive to the eye and skin. It is not expected to be a dermal sensitizer.

The use pattern of BromMax 7.1 fits within the existing use pattern for chlorine present as trichloro-s-triazinetrione and sodium bromide. Exposure to workers handling the product is not expected to increase over the currently registered use pattern for the active ingredients when all label precautions are adhered to.

### Environmental Assessment

Although BromMax 7.1 is toxic to aquatic organisms, direct environmental exposure is not expected under operational conditions, since the product is an antimicrobial for industrial and commercial recirculating (closed systems) cooling water systems in industrial pasteurisers, pulp

and paper mill influent water systems, air washers and heat transfer systems. The label does not permit discharge of effluent containing this product into aquatic systems. Environmental exposure to closed system antimicrobials is considered negligible.

### Value Assessment

The uses for BromMax 7.1 were found to be acceptable at rates of 4.5 – 9.0 ppm total bromine.

### Conclusion

The PMRA has completed an assessment of available information for BroMax 7.1 and has found the information sufficient to support a full registration.

### References

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1436810	2004, BromMax Physical & Chemical Properties (Group B), DACO: 3.5.1,3.5.10,3.5.14,3.5.2,3.5.3,3.5.6,3.5.7,3.5.8,3.5.9 CBI
1436811	2007, Formulation Type and Container, DACO: 3.5.4,3.5.5
1436812	2006, BromMax: Justification for Requesting Waivers for Certain Required Product Chemistry Studies, DACO: 3.5.11,3.5.12,3.5.13,3.5.15
1629623	2008, Procedure for determining the amount of sodium bromide and sodium chloride in Brommax and other stabilized liquid bromine products, DACO: 3.4.1
1629624	2007, One-Year Storage Stability and Corrosion Characteristics study of BromMax 7.1, DACO: 3.5.10,3.5.14
1629625	2005, Acute Oral Toxicity Up and Down Procedure in Rats, DACO: 4.6.1
1629626	2005, Acute Dermal Toxicity Study in Rats - Limit Test, DACO: 4.6.2
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1629628	2008, BromMax 7.1: Justification for Requesting Bridging to, and Waiving from Certain Required Toxicology Studies, DACO: 4.6.4,4.6.5,4.6.6

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