

Evaluation Report for Category B, Subcategory 3.4 Application

Application Number:	2017-1632
Application:	New or Changes to Product Labels-Application Method
Product:	Accucide 101A
Registration Number:	30773
Active ingredients (a.i.):	Sodium Chlorite
PMRA Document Number	r : 2813119

Purpose of Application

The purpose of this application was to amend the label of Accucide 101A to include an alternate, electrochemical method of generating chlorine dioxide using the Envirox chlorine dioxide generator.

Accucide 101A is a precursor for the generation of chlorine dioxide to control microbial growth in water used in recirculating cooling tower systems and pulp and paper mill systems.

Chemistry Assessment

The revisions to the product label of Accucide 101A were found to be acceptable.

Health Assessments

The specifications and toxicology for Accucide 101A, the procedures for handling the product, the concentrations of chlorine dioxide to be generated and applied, and the closed system method of application have not changed from the previous registration of the product. In addition, the label hazard, precautionary, and personal protective equipment (PPE) statements for the new method of chlorine dioxide generation have not changed from the previously registered methods. Finally, the Envirox device includes alarm, automatic shut-down, and chlorine dioxide destruct systems if any leaks are detected within the device.

Consequently, it is anticipated that occupational exposures and risks from Accucide 101A and the chlorine dioxide generated from it using the electrolytical method of generation will be similar to those for the previously registered methods of chlorine dioxide generation.

Environmental Assessment

An environmental assessment was not required for this application.

Value Assessment

Value information was provided to support the addition of a new method to generate chlorine dioxide where sodium chlorite is converted in an electrolytic device. The



main advantage of this method of chlorine dioxide generation is that there is a single precursor. No acid or chlorine gas is required to be used or stored on site. This method increases the safety and reduces corrosion issues compared to other generation methods that require the addition of hydrochloric acid or chlorine.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to support the amendment to the Accucide 101A label to include an alternative (electrolytic) method of producing chlorine dioxide for control of microbial growth in closed-system recirculating cooling towers and in pulp and paper mill systems

References

PMRA

Document	
Number	Reference
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2746484	2017, Accucide and Envirox ClO2 -Not CBI, DACO: 10.1,5.2
2746485	2017, Accucide 101A Sodium Chlorite FAQ -CBI, DACO: 10.2.3.4
2746486	2017, Accucide 101A Sodium Chlorite FAQ -Not CBI, DACO: 10.2.3.4
2746489	2017, Chlorine Dioxide Generation Technologies -CBI, DACO: 10.1, 5.2
2746492	2017, Envirox Chlorine Dioxide Electrochemical Generators Manual, DACO: 10.6
2790983	USEPA, 2006, Reregistration Eligibility Decision (RED) for Chlorine Dioxide and
	Sodium Chlorite (Case 4023),
	https://www3.epa.gov/pesticides/chem_search/reg_actions/reregistration/red_PC-
	020503_3-Aug-06.pdf
2782653	NSF International, 2017, AccuCide 101A, sodium chlorite[CL], NSF/ANSI 60
	Drinking Water Treatment Chemicals ¿ Health Effects,
	http://info.nsf.org/Certified/PwsChemicals/Listings.asp?Company=C0044772&Stand
	ard=060, DACO: 12.5.4
2782654	NSF International, 2017, Envirox SRE 1000/Envirox SRE 2000, Chemical
	Generators, NSF/ANSI 61 Drinking Water Treatment Components ¿ Health Effects,
	http://info.nsf.org/Certified/PwsComponents/Listings.asp?Company=C0073996&Sta
	ndard=061, DACO: 12.5.4
2807724	NSF/ANSI, 2016, NSF International Standard/American National Standards Institute
	Standard 60 - Drinking Water Treatment Chemicals - Health Effects,
	http://www.nsf.org/newsroom_pdf/NSF-ANSI_60_watemarked.pdf, DACO: 12.5.4
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	http://www.nsf.org/newsroom_pdf/NSF-ANSI_61_watemarked.pdf, DACO: 12.5.4

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