

Evaluation Report for Category B, Subcategory 2.1, 2.4 Application

Application Number: 2017-7607
Application: New End-use Product Chemistry – Guarantee; Proportion of Formulants
Product: ADOX BCD-7.5
Registration Number: 33288
Active ingredient (a.i.): Sodium chlorite
PMRA Document Number: 2860825

Purpose of Application

The purpose of this application was to register the end-use product ADOX BCD-7.5 for use as a slimicide in industrial process fluids used in recirculating cooling towers, pulp and paper mills, and for use in enhanced oil recovery systems and oil-field injection waters.

Chemistry Assessment

ADOX BCD-7.5 is formulated as a solution containing sodium chlorite at a concentration of 7.5%. This end-use product has a density of 1.059 g/mL and pH of 12.1. The required chemistry data for ADOX BCD-7.5 have been provided, reviewed and found to be acceptable.

Health Assessments

ADOX BCD-7.5 is considered to be of high acute toxicity via the oral route, of low acute toxicity via the dermal route and of moderate acute toxicity via the inhalation route of exposure. It is corrosive to the eyes, severely irritating to the skin and is not considered to be a potential skin sensitizer.

The use of ADOX BCD-7.5 is not expected to result in potential occupational or bystander exposure when compared to the currently registered uses of sodium chlorite. No risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

Environmental Assessment

The use pattern for ADOX BCD-7.5 fits within the previously registered use pattern of sodium chlorite. No additional risk to the environment is expected from the registration of this end-use product provided that environmental label statements are followed.

Value Assessment

The use pattern for ADOX BCD-7.5 fits within the previously registered use pattern of sodium chlorite and the value of these uses were assessed previously. Therefore, no further assessment of the value of this product was required.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to register ADOX BCD-7.5 for use in industrial process fluids.

References

PMRA Document

Number	Reference
2830895	1995, ADOX 750: Certified Limits and Analytical Method to Verify Certified Limits, DACO: 3.3.1, 3.4.1
2830896	1995, ADOX 750: Product Identity and Composition, DACO: 3.2.1,3.2.2,3.2.3
2830897	1995, To determine various physical / chemical characteristics of 7.5% Sodium Chlorite, DACO: 3.5.14, 3.5.6, 3.5.7, 3.5.9
2849537	2017, Additional Product Chemistry/Acute Toxicology for ADOX BCD-7.5, DACO: 3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.5.10, 3.5.11, 3.5.12, 3.5.13, 3.5.14, 3.5.15, 3.5.2, 3.5.4, 3.5.5, 3.5.8, 4.6
2849538	2017, Explodability, DACO: 3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.5.10, 3.5.11, 3.5.12, 3.5.13, 3.5.14, 3.5.15, 3.5.2, 3.5.4, 3.5.5, 3.5.8, 4.6 CBI
2849539	1996, Physical and Chemical Characteristics of Sodium Chlorite solution 7.5%: Storage Stability and Corrosion Characteristics - 1 Year at Room Temperature, DACO: 3.5.10, 3.5.14
2849540	1995, Physical and Chemical Characteristics of Sodium Chlorite solution 7.5%: Physical State, Specific Gravity, pH and Viscosity, DACO: 3.5.2, 3.5.6, 3.5.7, 3.5.9

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