

Evaluation Report for Category B, Subcategories 2.1, 2.3, 2.4, 3.12 Application

Application Number: 2018-2706

Application: New EP Product Chemistry-Guarantee, Identity of Formulants,

Proportion of Formulants, New Site or Host

Product: Aquear 7140 LT Water Treatment Microbiocide

Registration Number: 33769

Active ingredients (a.i.): Glutaraldehyde and N-alkyl(40% C12, 50% C14, 10% C16)

dimethylbenzylammonium chloride

PMRA Document Number: 3102287

Purpose of Application

The purpose of this application was to register an end-use product for use as a water treatment microbiocide to control slime-forming bacteria and sulphate-reducing bacteria in industrial applications.

Chemistry Assessment

Aquear 7140 LT Water Treatment Microbiocide is formulated as a solution containing glutaraldehyde at 14% and N-alkyl(40% C12, 50% C14, 10% C16) dimethylbenzylammonium chloride at 2.5%. This end-use product has a density of 0.897 g/mL and pH of 4.44. The required chemistry data for Aquear 7140 LT Water Treatment Microbiocide have been provided, reviewed and found to be acceptable.

Health Assessment

Aquear 7140 LT Water Treatment Microbiocide is slightly acutely toxic via the oral, dermal and inhalation routes of exposure. It is considered to be corrosive to the eyes and skin and a potential skin sensitizer.

The use of Aquear 7140 LT Water Treatment Microbiocide in various oil and gas field operations is not expected to result in potential occupational or bystander exposure over the registered uses of glutaraldehyde and n-alkyl (40% C12, 50% C14, 10% C16) dimethylbenzylammonium chloride. No risks of concern are expected when workers follow label directions and wear personal protective equipment as stated on the label.

A dietary exposure risk assessment was not required for this application.



Environmental Assessment

The environmental risks associated with the uses of Aquear 7140 LT Water Treatment Microbiocide are acceptable when used according to the label directions.

Value Assessment

One laboratory study was provided to support the value of Aqucar 7140 LT Water Treatment Microbiocide as an industrial biocide for use in the oil and gas production industry. The study demonstrated that Aqucar 7140 LT Water Treatment Microbiocide was effective in controlling representative microbial contaminant species within fluids representative of a number of important oilfield uses, such as drilling muds, water floods and fracturing fluids, when used at labelled rates. Therefore, Aqucar 7140 LT Water Treatment Microbiocide has been shown to have acceptable value as an industrial biocide for these purposes.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found it sufficient to support the registration of Aquear 7140 LT Water Treatment Microbiocide.

References

PMRA	
Document	
Number	Reference
2896204	2018, Applicants name and office address, DACO: 3.1.1
2896205	2018, Formulating plants name and address, DACO: 3.1.2
2896206	2018, Trade name, DACO: 3.1.3
2896207	2018, Other names, DACO: 3.1.4
2896208	2018, Formulation type, DACO: 3.5.4
2896209	2018, Container material and description, DACO: 3.5.5
2896210	2018, Miscibility waiver, DACO: 3.5.13
2896211	2018, Dielectric breakdown voltage waiver, DACO: 3.5.15
2896225	2017, XU97700.12: Physical and Chemical Characteristics, DACO:
	3.5.1,3.5.11,3.5.2,3.5.6,3.5.7,3.5.8,3.5.9
2896226	2017, XU97700.12: Explosive Properties , DACO: 3.5.12
2896227	2017, XU97700.12: Product Chemistry Series 830 Group A- Product Identity,
	Composition, and Analysis, DACO: 3.2.1,3.2.2,3.3.1,3.4.1 CBI
2896228	2017, XU97700.12 Developmental Antimicrobial: Determination of Accelerated
	Storage Stability, DACO: 3.5.10
2896229	2018, XU97700.12 Developmental Antimicrobial: Determination of Long-Term
	Storage Stability (Three Month Interim Report), DACO: 3.5.10,3.5.14
2896230	2018, Odor waiver , DACO: 3.5.3
2918607	2007, n-Alkyldimethylbenzylammonium chloride (BARQUAT MB-80) in
	Glutaraldehyde-Based Products, DACO: 3.4.1 CBI
2918608	2017, Analysis of Glutaraldehdye for Active Ingredient by Potentiometric
	Titration, DACO: 3.4.1 CBI
2942293	2018, DACO 3.5.10 Storage Stability Data, DACO: 3.5.10
2942294	2018, XU97700.12 Developmental Antimicrobial: Determination of Long-Term
	Storage Stability (Twelve-Month Interim Report), DACO: 3.5.10
2896231	2016, XU97700.12 Antimicrobial: Acute Oral Toxicity Study: Up-and-Down
	Procedure in Rats, DACO: 4.6.1
2896232	2016, XU97700-12 Antimicrobial: Acute Dermal Toxicity Study in Rats, DACO:
2070232	4.6.2
2006222	
2896233	2016, XU97700.12: Acute Liquid Aerosol Inhalation Toxicity Study in
	Crl:CD(SD) Rats, DACO: 4.6.3
2896234	2018, Waiver Request for Acute Eye Irritation, Acute Dermal Irritation, and Skin
	Sensitization, DACO: 4.6.4,4.6.5,4.6.6
2896220	2018, Mode of Action / Description of Product, DACO: 10.2.1
2896221	2018, Description of Pest Problem, DACO: 10.2.2
2896222	2018, Non-safety adverse effects, DACO: 10.3.2
2896223	2018, Survey of Alternatives, DACO: 10.5.1
2896224	2018, Survey of Alternatives list, DACO: 10.5.1
2896235	2018, Efficacy: Laboratory, Growth Chamber Trial, DACO: 10.2.3.2
2090233	2010, Emicacy. Laboratory, Growth Chamber That, DACO. 10.2.3.2

