

Evaluation Report for Category B, Subcategory 3.1, 3.12 Application

Application Number: 2009-3176
Application: B.3.1 (Product labels – application rate increase)
B.3.12 (Product labels – new site or host)
Product: AMA 324-C Antimicrobial Agent
Registration Number: 29969
Active ingredients (a.i.): Dazomet (DAZ)
PMRA Document Number (English PDF): 1986479

Purpose of Application

The purpose of this application was to register a new end-use product, AMA 324-C Antimicrobial Agent (guarantee 24% dazomet). This is a Materials Preservative for oilfield drilling muds, workover fluids, oil and gasfield process waters. The product is a re-pack of AMA 424-C Antimicrobial Agent (Registration number 29739).

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

This product is a re-pack of an existing registered product. As such, there is no expected change to the toxicity profile of this product for the proposed new use.

A health assessment has been conducted for the registration of a new commercial end-use product, AMA-324-C Antimicrobial Agent. This product is to be used to control bacteria in oil and gas field operations. Exposure to mixer/loader, applicators and post-application workers was determined to be acceptable.

Environmental Assessment

An environmental assessment was not required for AMA 324-C Antimicrobial Agent because environmental exposure is expected to be limited when label directions are followed. Environmental concerns are mitigated based on appropriate label statements.

Value Assessment

Laboratory studies, field studies and rationales were provided to demonstrate the ability of AMA 324-C Antimicrobial Agent to reduce microbial activity in oilfield produced water. The studies were conducted with used fracturing water recovered from oilfields as laboratory test samples, which contained their natural microorganisms to challenge AMA 324-C Antimicrobial Agent. A scientific rationale was provided explaining how the laboratory data based on fracturing water could support the other oilfield-related water uses. Operational data from production wells and fracturing fluids samples were also provided. Overall, the data demonstrated that AMA 324-C Antimicrobial Agent is effective at reducing bacterial counts under representative use conditions for the following uses; oilfield water treatment, process waters and water floods, oil and gas pipeline and tank maintenance, and the pipeline/vessel hydrotesting.

Conclusion

The PMRA has completed an evaluation of all available information and is able to support the full registration of AMA 324-C Antimicrobial Agent.

References

PMRA document number	Reference
1793590	2008, AMA 424-C Laboratory Studies - Efficacy, DACO: 10.2
1891876	2010, AMA 324-C Mode of Action, DACO: 10.2.1
1891877	2010, AMA 324-C Laboratory Trials Explanatory Notes, DACO: 10.2.3.2
1891878	2010, AMA 324-C Operational Trials - Cover note, DACO: 10.2.3.4
1891879	2007, Dazomet Pilot Study Results Kemira, DACO: 10.2.3.4 CBI
1891880	2010, AMA 324 Dazomet Trial results Q&A, DACO: 10.2.3.4 CBI
1891881	2010, AMA 324-C non safety adverse effects, DACO: 10.3.2
1991438	2008, US Environmental Protection Agency Office of Pesticide Programs. Reregistration Eligibility Decision (RED) for Dazomet. July 9, 2008. EPA 738-R-08-007 List B, Case No. 2135, DACO: 12.5.4
1991439	2009, US Environmental Protection Agency. Prevention, Pesticides and Toxic Substances (7508P), May 2009 Amended Reregistration Eligibility Decision for Dazomet. Amended Dazomet RED. List B. Case No. 2135, DACO: 12.5.4
1991451	2009, U.S. Environmental Protection Agency, Office of Pesticides Programs. Health Effects Division (7509P). Human Health Risk Assessment. Dazomet HED Chapter of Reregistration Eligibility Decision Document (RED) 2009. PC Code: Dazomet, DACO 12.5.4

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