

Evaluation Report for Category B, Subcategory B.3.1, B.3.12 Application

Application Number: 2015-3369
Application: Changes to Product Label - Application Rate Decrease / New Site
Product: Tris Nitro 25% Aqueous Antimicrobial Agent
Registration Number: 16822
Active ingredient (a.i.): 2-(hydroxymethyl)-2-nitro-1,3-propanediol
(or tris(hydroxymethyl)nitromethane)
PMRA Document Number: 2666421

Purpose of Application

The purpose of this application was to amend the label for Tris Nitro 25% Aqueous Antimicrobial Agent in order to expand the use for control of microorganisms in oil and gas production while removing the uses on metal working fluids and cooling towers, and reducing the maximum single application rate.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

The amendments to the use pattern have no impact on the acute toxicological profile of Tris Nitro 25% Aqueous Antimicrobial Agent.

The use of Tris Nitro 25% Aqueous Antimicrobial Agent fits within the currently registered use pattern for tris(hydroxymethyl)nitromethane. Therefore, exposure to tris(hydroxymethyl)nitromethane is not expected to increase over the exposure from the currently registered products.

Environmental Assessment

The use rates of Tris Nitro 25% Aqueous Antimicrobial Agent in oil and gas production falls within the registered uses. The expected environmental exposure to non-target organisms is not expected to result in unacceptable environmental risk when compared to currently registered uses in terrestrial oil fields, provided that these products are used in accordance with the label instructions.

Value Assessment

Value information for the new oilfield uses for Tris Nitro 25% Aqueous Antimicrobial Agent was based on data using a currently registered antimicrobial product which contains 50% tris(hydroxymethyl)nitromethane for the control of microorganisms in drilling, completion and workover fluids, packer fluids, fracturing fluids, water floods and enhanced oil recovery fluids, injection waste fluids, oil and gas water storage and transmission systems, gas storage wells and systems, hydrotesting, pipeline pigging and scraping operations and hydrocarbon production, storage and transmission systems. The data demonstrated that the currently registered antimicrobial product containing 50% tris(hydroxymethyl)nitromethane was effective at controlling microorganisms at rates of 50-1000 ppm a.i. (100-2000 ppm of product) depending on the use. Therefore, it is expected that Tris Nitro 25% Antimicrobial Agent (25% tris(hydroxymethyl)nitromethane) will be effective at controlling microbial growth in oil and gas applications at rates of 200-4000 ppm of product depending on the use.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided and has found the information sufficient to support the amendments to the label for Tris Nitro 25% Aqueous Antimicrobial Agent.

References

PMRA Document Number	Reference
2553985	2015, DACO 10.1 (Value Summaries) DACO 10.2.3.1 (Efficacy Trial Summaries), DACO: 10.1,10.2.3.1
2553986	2014, Antimicrobial Efficacy of Aquacar(TM) TN 50 Water Treatment Microbiocide for Oil and Gas Applications, DACO: 10.2.3.2
2553987	2014, The Antimicrobial Activity of THNM Formulations: Minimum Inhibitory Concentration (MIC) Studies versus Bacteria, DACO: 10.2.3.2
2553988	2015, DACO 10.2.4 Use History, DACO: 10.2.4
2553989	2015, DACO 10.3.1 (Summaries) DACO 10.3.2 (Non-Safety Adverse Effects), DACO: 10.3.1,10.3.2

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