

Commercial-in-Confidence

Chemex reference: ENV11297/ECO161005

**The acute toxicity of PURE-BORE to
Daphnia magna over a 48-hour
exposure period**

**Report for
Clear Solutions International Limited**

Report issued by:

Chemex Environmental International Limited
Unit J
Broad Lane Industrial Estate
Cottenham
Cambridge CB24 8SW
UK

January 2017

Sponsor:

Clear Solutions International Limited
Unit B3, Wem Industrial Estate
Wem, Shropshire
SY4 5SD


Compliance with Good Laboratory Practice Standards

I, the undersigned, hereby declare that the study described in this report was performed under my supervision, and that the final report fully and accurately reflects the raw data generated during the conduct of the study, in compliance with international codes of Good Laboratory Practice based on:

- Section II of Annex 1 to the European Parliament and council Directive 2004/10/EC and Annex 1 to the European Parliament and council Directive 2004/9/EC (Official Journal No. L 50) and embodied within:
- *The UK Good Laboratory Practice Regulations 1999 (The United Kingdom GLP Regulations 1999, Statutory Instrument 3106)* as amended by:
- *The UK Good Laboratory Practice (Codification Amendments Etc.) Regulations 2004 (Statutory Instrument No 994)*

These principles are in accordance with the OECD Principles of Good Laboratory Practice, revised 1997 (ENV/MC/CHEM(98)17).

The purity of the sample tested has not been determined and was not provided by the Sponsor.


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Mike Mallett
Study Director

25 January 2017
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Date

Key personnel

Other key personnel at Chemex involved in this study were:

Monika Zuba-Sosnowska
Agnes Grabczewska
Jimi Crane

Quality Assurance Statement

The Quality Assurance unit inspects the final report to confirm that the methods, procedures and observations are accurately and completely described, and that the reported results accurately and completely reflect the raw data of a regulatory study.

This is achieved by conducting routine annual facility and system inspections at approximately 12 monthly intervals. In addition, an internal process-based audit programme is also adhered to at 3 monthly intervals. Where required, study specific inspections are also conducted. All study plans and amendments are verified by the QA unit to confirm compliance with GLP.

The inspections applicable to this study are detailed below. The dates are given as dd/mm/yy.

Study Number: ENV 11297
Study Title: The acute toxicity of PURE-BORE to *Daphnia magna* over a 48-hour exposure period.

Procedures and Processes	Type	Date of inspection	Date reported to Study Director / Management
Aquatic crustacean test set up	P	14/10/16	25/11/16
Weighing out test or reference material	P	14/10/16	25/11/16
Preparation of growth medium / nutrients / standards	P	04/10/16	05/10/16
Preparation of solution / WAF	P	14/10/16	25/11/16
Equipment calibration	P	14/10/16	25/11/16
Organism stock records	P	14/10/16	25/11/16
Taking and recording readings	P	17/10/16	25/11/16
Labelling and paperwork	P	14/10/16	25/11/16

Key: P- Process-based, S- Study specific, O- other inspection type.

This report has been inspected by the undersigned and, as far as can be reasonably established, the methods, procedures and observations are accurately and completely described and the results incorporated into this report accurately and completely reflect the raw data generated during this study.

Final report and data inspection started: 30/11/16

Final report and data inspection completed: 25/01/17

Signed:


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Kim Utting
Quality Assurance

Date:

25 January 2017
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Summary

This section summarises aquatic toxicity test results obtained by Chemex Environmental International Limited on a sample as detailed below:

Test commissioned by: Clear Solutions International Limited

Substance under test: PURE-BORE

Chemex reference: Sample: ECO 161005
Study: ENV 11297

Test species: *Daphnia magna*

Test type: Acute toxicity: 48-hour EC₅₀.

Protocol: OECD 202: *Daphnia* sp. Acute Immobilisation Test

Test period: Range finding test: 08 to 10 November 2016
Definitive test: 22 to 24 November 2016

Test concentrations: 0 (control) and 100mg/L

Test performed at: Chemex Environmental International Limited
Unit J, Broad Lane Industrial Estate
Cottenham
Cambridge
CB24 8SW
UK

Results: All study validity criteria were met

Period of exposure	EC ₅₀ value (with 95% confidence limits)*
24 hour	>100mg/L*
48 hour	>100mg/L*

48 hour NOEC	100mg/L
48 hour 100% immobilisation	Not possible to determine

Direct observation of data

*Confidence limits not possible to determine.

All concentrations of the test substance are reported as nominal as received.