

SENAI Institute of Technology in Environment and Chemistry  
Central Laboratory Test Report

Report No: 4688

Sample Number: 5924/2019

Report Issue Date: 05/17/2019

Client: EPX Engenharia Ltda

Address: Rua João Antônio Prosdócimo, 450, Sobrado 06, Uberaba, zip code: 81560-020, Curitiba / Paraná

## Sample Data

Sampling Location: NONE      Zero Thermal dissolved in water (application dosage - 1g / L)

Sample Type: Other Products

Sampling: Responsible: Customer. Date / Time: 11/11/2019 14:52:09

Environmental Conditions: Good Weather

Entry to the laboratory: 05/09/2019

Observations: Tests carried out in Senai's permanent installations

## Biological Assays

Ordinance: Tests for toxicological analysis in polymers for fish farming

Test	Result	Uncertainty	Contact	unity	Date of conclusion	Methodology	Reviewed per
Acute Toxicity to Daphnia magna	1	-	-	FTd	17/05/2019	ABNT NBR 12713/2016	Jose Alexandre De Paula Belo
Acute Toxicity to Daphnia magna.	Sample not toxic	-	-	-	17/05/2019	ABNT NBR 12713/2016	Jose Alexandre De Paula Belo
Chronic toxicity Desmodesmus subspicat	1	-	-	FTa	17/05/2019	ABNT NBR 12648/2011	Jose Alexandre De Paula Belo
Chronic toxicity Desmodesmus subspica.	Sample not toxic	-	-	-	17/05/2019	ABNT NBR 12648/2011	Jose Alexandre De Paula Belo
Acute toxicity to Vibrio fischeri	1	-	-	FTbl	17/05/2019	ABNT NBR 15411-3 / 2012	Jose Alexandre De Paula Belo
Acute toxicity to Vibrio fischeri.	Sample not toxic	-	-	-	17/05/2019	ABNT NBR 15411-3 / 2012	Jose Alexandre De Paula Belo

References:

- SMWW: Standard Methods for the Examination of Water and Wastewater 23rd Ed, 2017.
- The Laboratory has CCL (laboratory registration certificate), number 018 A with the IAP.

- ABNT NBR - Brazilian Association of Technical Standards.

General observations:

- FTd = Acute Toxicity Factor for Microcrustacean *Daphnia magna*.
- FTbl = Acute Toxicity Factor for Luminescent Bacterium *Vibrio fischeri*.
- FTa = Chronic Toxicity Factor for Chlorophyll algae *Desmodesmus subspicatus*.
- Frozen sample for ecotoxicological tests.

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Ana Cristina De Oliveira Santos Andrade  
Technical Responsible Laboratories  
SENAI Institute of Technology Environment and Chemistry

This report was electronically signed by Ana Andrade, CRQ 09201525, Senai's Technical Officer  
CIC.

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THE RESULTS CONTAINED IN THIS REPORT REFER TO THE ANALYZED SAMPLE ONLY. ONLY  
INTEGRAL REPRODUCTION OF THIS REPORT ALLOWED

# REPORT TABLE

## 36582

Laboratory: **Applied Consumer Services Inc.**

Client: Ms. Megan Alfonso  
**CLARITY LABS, LLC**

Reception Date: October 29, 2020

Result Shipment: November 3, 2020

Analysis Type: Quality Control

Lab Number	Sample Description	Lot Number	P.O. #	Impurities (List Level 1)			
				Methanol (ppm)	Benzene (ppm)	Acetaldehyde (ppm)	Acetal (ppm)
36582/1	Varigard Hand Sanitizer Complex	ALB-102120	Q10282020-GT1	389.4	< 1	26.7	37.8

<b>Specification:</b>	<b>≤ 630</b>	<b>≤ 2</b>	<b>≤ 50</b>	<b>≤ 50</b>
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