

Coloured gravel / Mixed SampleDetermination of the acute toxicity to Zebrafish eggs (48 h)
acc. to DIN 38415 T6 / EN ISO 15088

Sample	Coloured gravel / Mixed Sample
Sponsor	Colorstone Import, Export von Farbsteinen und Dekorationsartikeln Mauerstraße 21 07407 Rudolstadt Germany
Sample material	Coloured gravel, mixed sample
Appearance	Solid, multi coloured gravels ("amethystblau, purpur, lagunenblau, nussbraun, verkehrsgelb")
Storage	Room temperature
Stability	2019-02-16 (from receipt)
Sample receipt	2018-02-16
Sample pre-treatment	100 g/L (50 g of Sample with 0.5 L dilution water to DIN EN ISO 7346 1-3) were shaken in a 1 L glas bottle on a laboratory shaker for 24 h with 85 rpm. Thereafter the eluate was filtered with folded filter paper. The filtrate was used for the study. The pH-values of the eluate was adjusted to 7.0 ± 0.2 (1 M HCl).
Test facility	Noack Laboratorien GmbH, Käthe-Paulus-Str. 1, 31157 Sarstedt
Technical staff	Simone Pioch
Study director	Dr. Volker Klix (Biologe)
Test method	DIN 38415 T6 / EN ISO 15088
Test species	Eggs of <i>Danio rerio</i> (zebrafish)
Number of eggs	10 per dilution level, control and reference item, additionally 4 eggs per plate as internal control
Test volume	2 mL per well
Experimantal exposure	2018-02-20 – 2018-02-22
Reference item	3,4 Dichloro aniline (DCA, concentration 3.7 mg/L)
pH-Value of the eluate	7.35

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Validity Criteria

	Target	Actual
Survival in the control group	≥ 90 %	see results
Mortality in the Reference item group	> 10 %	see results

Results

	Water parameters after 0 h			
	pH-value		Dissolved oxygen content [%]	
Eluate filtrated	7.06		100	
Control	7.01		100	
Reference item	7.00		100	
	Mortality			
	after 24 h		after 48 h	
	n/10	[%]	n/10	[%]
Eluate filtrated	0	0	0	0
Control	0	0	0	0
Reference item	10	100	10	100

G_{Egg}-value = the lowest dilution level with at least 90 % survival of the eggs

G_{Egg} (48 h) Eluat filtrated = 1

Conclusions

The filtrate of coloured gravel / mixed sample did not cause any toxic effects to fish.

Sarstedt, 26.2.18

