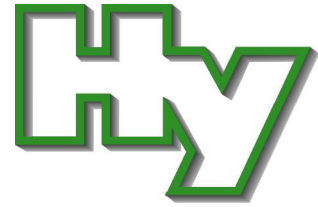


# Hygiene-Institut des Ruhrgebiets

Institut für Umwelthygiene und Toxikologie

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Träger: Verein zur Bekämpfung der Volkskrankheiten im Ruhrkohlengebiet e.V.



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Product "Profi Klebedichtmasse"  
here: Determination of aquatic toxicity

Your order dated 09.11.2017; Sven Tekath

Dear Sir or Madam,

According to the above order, we had been instructed by SchleTek Deutschland to perform various ecotoxicological tests on an adhesive and sealant called "Profi Klebedichtmasse" based of MS polymers.

Due to the potential use of the sealing system, for instance, in pond or aquarium construction, material contact with biologically active waters cannot be excluded. The present test was therefore performed to clarify, under laboratory conditions, whether any conceivable mass transfers from fully cured product "Profi Klebedichtmasse" into the surrounding aqueous phase might possibly lead to a relevant impact on the water quality.

Es gelten unsere AGB (<http://www.hyg.de>). Die Ergebnisse unserer Prüfungen und die Bewertungen gelten für die untersuchten Prüfgegenstände und die zu diesem Zeitpunkt gültigen gesetzlichen Regelungen. Die Akkreditierung gilt für die in der Anlage zur Akkreditierungsurkunde aufgeführten Prüfverfahren (<http://www.hyg.de>). Dieses Dokument darf ohne unsere ausdrückliche schriftliche Genehmigung nur in vollständiger und unveränderter Form veröffentlicht oder vervielfältigt werden.



On this basis, it was agreed, for a basic assessment of product features, to determine test data on aquatic toxicity in accordance with OECD Guideline 203 (Fish, Acute Toxicity Test, 17<sup>th</sup> July 1992) to be able to make a product-related statement concerning any possible acute or chronic toxicity.

Detailed documentation of the test results can be viewed in our report A-293025-17-Bi dated 18.12.2017. The present outline summarises the key results.

The results determined in accordance with OECD 203 are recorded in the following table:

Concentration of original substance	mg/l	100	1000	10 000	100 000
Proportion of dead fish	%	0	0	0	0

Table 1: Test results on fish toxicity in product "Profi Klebedichtmasse"

Based on the above data, the following LC values could be determined:

LC<sub>0</sub>/ NOEC (96 h) : 100 000 mg/l of product "Profi Klebedichtmasse"/l  
LC<sub>50</sub>\* (96 h) : > 100 000 mg/l of product "Profi Klebedichtmasse"/l  
LC<sub>100</sub> (96 h) : > 100 000 mg/l of product "Profi Klebedichtmasse"/l

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\* LC 50 = The graphically or computationally determined concentration of the test item to be examined, at which 50% of fish used die within the 96-hour test.

The test data (LC<sub>50</sub> value), experimentally determined in this context, was consistently above the 50% effect concentrations, relevant for classification, defined in Annexe 1 of the CPL Regulation (EC No. 1272-2008) for fish, daphnia and algae of > 100 mg/l, and the NOEC value (no observed effect concentration) was above 1 mg/l, derived from the test data, so that, in our view, there is no need to classify product "Profi Klebedichtmasse" as "hazardous to the aquatic environment", and it can be assumed that the use of this coating system in waters will not lead to any relevant negative impact on the living environment.

Yours faithfully  
On behalf of  
Director of the Institute



Dipl.-Umweltwiss. Sebastian Bien  
Head of Specialist Area  
Ecotoxicology and Mining Hygiene