

## VARISOFT® EQ 100

### Zusammenfassung der Produktdaten zur Toxikologie und Ökologie\* / Summary of Product Data with Reference to Toxicology and Ecology\*

Prüfung Test	Methode Method	Ergebnis Result	Datum Date	>11.03.2009/Zweck >11.03.2009/ Purpose
Akute orale Toxizität (Ratte) Acute Oral Toxicity (rat)	OECD 423	LD <sub>50</sub> > 2,000 mg/kg bw	02/2011	REACH dossier for Household Care applications
Akute dermale Toxizität (Ratte) Acute dermal Toxicity (rat)	OECD 402	LD <sub>50</sub> > 2,000 mg/kg bw (50% solution in sesame oil)	06/2011	REACH dossier for Household Care applications
Hautverträglichkeit (Kaninchen) Acute Dermal Irritation/Corrosion (rabbit)	OECD 404	slight to moderate skin reactions including desquamation and atrophy – reversible within 21 days <sup>1)</sup>	05/2011	REACH dossier for Household Care applications
Hautverträglichkeit (in vitro) In vitro skin irritation	OECD 439	Predicted as not irritating to skin, however cell viability of tissues was notably decreased	04/2011	
Schleimhautreizung in vitro (HET CAM) Mucosa irritation in vitro (HET CAM)	<sup>2)</sup>	mäßig reizend <sup>3)</sup> moderately irritant	01/2011	
Wiederholung Schleimhautreizung in vitro (HET CAM), 20 % in Sesamöl Repetition of Mucosa irritation in vitro (HET CAM), 20 % in sesame oil	<sup>2)</sup>	leicht reizend <sup>4)</sup> slightly irritant	08/2011	
Ex-vivo Augenreizungstest (BCOP) Bovine Corneal Opacity and Permeability Assay (BCOP)	OECD 437	ätzend / stark augenreizend corrosive to the eye / severe eye irritant cat 1, H 318 <sup>5)</sup>	07/2011	
Wiederholung ex-vivo Augenreizungstest (BCOP), 20 % in Olivenöl Repetition Bovine Corneal Opacity and Permeability Assay (BCOP), 20% in olive oil	OECD 437	Nicht ätzend / nicht stark augenreizend not corrosive /not severe irritant to the eye	10/2011	
Hautsensibilisierung (Meerschweinchen) Skin Sensitisation (guinea pig)	OECD 406	nicht sensibilisierend non sensitising	03/2011	REACH dossier for Household Care applications
Genotoxizität (Ames) Gene Toxicity (Ames)	Section 4, OECD 471 and EC 440/2008	nicht mutagen mit und ohne metabolischer Aktivierung not mutagenic with and without metabolic activation	02/2011	

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Biologischer Abbau Biological degradability	OECD 301 F	leicht abbaubar (74%; 24 mg/L; 10 day window reached; 28 days)  readily biodegradable	09/2015	
Anaerober Abbau Anaerobic Biodegradation	OECD 311	Bioabbaubar unter anaeroben Bedingungen (66.5%; 100 mg TOC/L; 60 days)  Biodegradable under anaerobic conditions	08/2016	
Zellvermehrungshemmtest im Belebtschlamm Activated Sludge Respiration Inhibition test	EC 440/2008 C.11	EC <sub>10</sub> = 323.4 mg/L EC <sub>50</sub> > 1,000 mg/L <sup>6)</sup>	09/2011	
Akute Fisch-Toxizität Acute fish toxicity	OECD 203	LC <sub>50</sub> (96 hrs) > 10 mg/L in ISO medium containing 4 mg/L humic acid <sup>7)</sup>	05/2013	
Algeninhibierung Algae Growth Inhibition	OECD 201	ErC <sub>50</sub> (72 hrs) = 1.2 mg/L E <sub>γ</sub> C <sub>50</sub> (72 hrs) = 0.95 mg/L NOEC (72 hrs) = 0.39 mg/L <sup>8)</sup> All values determined in medium containing 4 mg/L humic acid <sup>7)</sup>	05/2013	
Akute Daphnientoxizität Acute Daphnia Immobilisation	OECD 202	EC <sub>50</sub> (48 hrs) > 8.6 mg/L in ISO medium containing 4 mg/L humic acid <sup>7)</sup>	05/2013	

- 1) 0,5 mL der 100%igen Testsubstanz / 0.5 mL of 100% test substance
- 2) HET CAM (hen's egg choriallantoic membrane test ), Prof. Dr. N.-P. Lüpke, Institute for Pharmacology and Toxicology, University of Münster (for example in H. Schöffl, Ersatz- und Ergänzungsmethoden zu Tierversuchen: Möglichkeiten und Grenzen der Reduktion von Tierversuchen, Springer Verlag, 1992).
- 3) 8.8 scores of total 21 possible
- 4) 5 scores of total 21 possible
- 5) This BCOP test has been performed with an un-neutralised substance variant. It is to be expected that the result of a neutralised version will be more favorable

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6) EC<sub>50</sub> value was above the measured test substance concentrations

7) equivalent to 2–4 mg/L DOC

8) for both growth rate reduction and yield inhibition

\* Full Robust Study Summaries can be checked under the ECHA Registered Substance website and with the following registration number: 01–2119983493–26

Video instruction for use:

<http://personal-care.evonik.com/product/personal-care/en/media-center/videos/reach-tox-data/pages/default.aspx>

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