TEGO® Cosmo C 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
Grundlegende Toxikokinetik Basic toxicokinetics	No guideline followed [1)]	No bioaccumulation potential based on study results. The relative bioavailability of the citrate versus the monohyd-rate form is equivalent to 0.97+/-0.11.	1998	
Akute orale Toxizität (Ratte) Acute Oral Toxicity (rat)	OECD 423	LD_{50} > 2,000 mg/kg	12/1997	
Akute dermale Toxizität (Ratte) Acute dermal toxicity (rat)	OECD 402	LD_{50} > 2,000 mg/kg	11/2011	REACH
Akute intraperitoneale Toxizität (Maus) Acute intraperitoneal toxicity (mouse)	OECD 423	LD_{50} > 2,000 mg/kg	03/1998	
Hautverträglichkeit (Kaninchen) Acute Dermal Irritation/Corrosion (rabbit)	OECD 404	nicht reizend not irritating	12/1997	
Schleimhautverträglichkeit (Kaninchen) Acute Eye Irritation/Corrosion (rabbit)	OECD 405	nicht reizend not irritating	12/1997	
Hautsensibilisierung (Meerschweinchen) Skin Sensitisation (guinea pig)	OECD 406	nicht sensibilisierend not sensitising	12/1997	
Toxizität bei wiederholter Verabreichung (Ratte) Repeated dose toxicity (rat)	OECD 407	NOAEL (28 d) = 2,000 mg/kg bw/day	01/1999	
Gentoxizität (Ames) Gene Toxicity (Ames)	OECD 471	nicht mutagen not mutagenic	10/1997	
Säugetierzellen-Genmutationstest Mammalian Cell Gene Mutation Test	OECD 476	nicht mutagen not mutagenic	12/2011	REACH

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Säugetierzellen-Mikronucleustest Mammalian cell micronucleus test	OECD 487	negativ negative	05/2012	REACH
Bioabbau aerob Biodegradation aerob	OECD 301 E	>= 96.18 % <= 96.95% (28 d)	03/2005	
Akute Fischtoxizität Acute fish toxicity	EU method C.1	LC_{50} (96 h) > 100 mg/L NOEC (96 h) > 100 mg/L	01/2006	
Akute Daphnientoxizität Acute Daphnia Immobilisation	EU method C.2	EC_{50} (48 h) > 1,000 mg/L	12/2004	
Algenwachstumshemmtest Alga growth inhibition test	OECD 201	EC_{50} (72 h) > 100 mg/L	05/2012	REACH

1) The difference in absorption of creatine citrate and creatine monohydrate was elucidated. The impact on bioavailability was tested by administering 5 g of the two substances, corresponding to 4.4 g creatine as creatine monohydrate and 2.0 g creatine as creatine citrate. The study was conducted according to the experimental design as a controlled, crossover, following a Latin-Square design with randomised sequences and a 7-day wash-out between the two administrations in 10 healthy human volunteers.

* Full Robust Study Summaries can be checked under the ECHA Registered Substance website and with the following registration number 01-2119931462-43 for the water-free version of the substance.

Video instruction for use:
http://personal-care.evonik.com/product/personal-care/en/media-center/videos/reach-tox-data/pages/default.aspx