

TEGOSOFT® AC MB

Summary of Product Data with Reference to Toxicology and Ecology*

Test	Method	Result	Date
Basic Toxicokinetics	OECD 417	rapid absorption, metabolisation and secretion ¹⁾	
Acute Oral Toxicity (rat)	OECD 423	LD ₅₀ > 2,000 mg/kg bw ²⁾	
Acute Oral Toxicity (mouse)	OECD 401	LD ₅₀ > 4,300 mg/kg bw ³⁾	
Acute Inhalation Toxicity (rat)	OECD 436	LC ₅₀ > 5.3 mg/L air ⁴⁾	
Acute Inhalation Toxicity (rat)	OECD 436	LC ₅₀ > 5.3 mg/L air ⁵⁾	
Acute Dermal Toxicity (rat)	OECD 402	LD ₅₀ > 2,000 mg/kg bw ⁶⁾	
Acute Dermal Irritation/Corrosion (rabbit)	OECD 404	not irritating ²⁾	
Acute Dermal Irritation/Corrosion (rabbit)	OECD 404	not irritating ³⁾	
Acute Eye Irritation/Corrosion (rabbit)	OECD 405	not irritating ²⁾	
Acute Eye Irritation/Corrosion (rabbit)	OECD 405	not irritating ⁷⁾	
Acute Eye Irritation/Corrosion (rabbit)	OECD 405	not irritating ⁸⁾	
Skin Sensitisation (guinea pig)	OECD 406	not sensitising ⁸⁾	
Skin Sensitisation (guinea pig)	OECD 406	not sensitising ²⁾	
90 day repeated dose toxicity (rat)	OECD 408	NOAEL = 1,000 mg/kg bw/day (actual dose) NOEL = 50 mg/kg bw/day (actual dose) ⁶⁾	
Gene toxicity (Ames)	OECD 471	negative ²⁾	
Gene toxicity (Ames)	OECD 471	negative ³⁾	
Gene toxicity (Ames)	OECD 471	negative ⁸⁾	
In-vitro mammalian chromosome aberration	OECD 473	negative ⁵⁾	
In-vitro mammalian chromosome aberration	OECD 473	negative ²⁾	
In-vitro mammalian cell gene mutation	OECD 476	negative ⁵⁾	
In-vitro mammalian cell gene mutation	OECD 476	negative ²⁾	

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Toxicity to reproduction (rat)	1993 FDA draft "Redbook II" guidelines	NOAEL = 5,500 mg/kg bw/day (actual dose received) ⁹⁾	
Toxicity to reproduction (rat)	no guideline followed	NOAEL fertility P ca. 6,000 mg/kg bw/day (nominal) NOAEL F1 ca. 6,000 mg/kg bw/day (nominal) ¹⁰⁾	
Biodegradability	OECD 301 B	91.3% (28d) readily biodegradable ¹¹⁾	
Biodegradability	OECD 301 B	100% (28d) readily biodegradable ¹²⁾	
Bioaccumulation aquatic/sediment	OECD 417	Substance is rapidly and extensively hydrolysed to free oleic acid, absorbed, and delivered to tissue where it undergoes β -oxidation. ¹³⁾	
Adsorption / desorption	KOCWIN v2.00	Log Koc = 15.64 ¹⁴⁾	
Adsorption / desorption	KOCWIN v2.00	Log Koc = 4.6 ¹⁵⁾	
Adsorption / desorption	KOCWIN v2.00	Log Koc = 4.08 ¹⁶⁾	
Adsorption / desorption	KOCWIN v2.00	Log Koc = 5.12 ¹⁷⁾	
Acute fish toxicity	ISO 7346-1	LC ₅₀ (96h) > 10,000 mg/L ¹⁸⁾	
Acute fish toxicity	EPA 660/3-75-009 (1975)	LC ₅₀ (96h) > 10,000 mg/L ¹⁹⁾	
Acute daphnia toxicity	EU Method C.2	EC ₅₀ (48h) < 100 mg/L (nominal) EC ₅₀ (48h) > 0.05 mg/L (measured) ¹⁹⁾	
Acute daphnia toxicity	EU Method C.2	EL ₅₀ (48h) > 3,000 mg/L ¹⁸⁾	
Long term daphnia toxicity	OECD 202 and additional suggestions for OECD 202 part 2	NOELR (21d) > 100 mg/L ¹⁹⁾	
Acute algae toxicity	EU Method C.3	EL ₅₀ (72h) > 100 mg/L ²⁰⁾	
Acute algae toxicity	EU Method C.3	EC ₅₀ (72h) < 100 mg/L ¹⁹⁾	
Toxicity to microorganisms	DIN 38412, part 8	EC ₅₀ (18h) > 10 mg/L ¹⁹⁾	
Toxicity to soil macroorganisms (earthworm)	OECD 207	LC ₅₀ (14d) > 20,000 mg/kg soil dw ¹⁹⁾	

1) Read-across from (14C) ethyl oleate

2) Weight of evidence approach; read-across from fatty acids, C16-18 and C18-unsatd., branched and linear, Bu esters

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- 3) Weight of evidence approach; read-across from hexyl laurate
- 4) Weight of evidence approach; read-across from fatty acids, tall oil, Bu esters
- 5) Weight of evidence approach; read-across from isopropyl laurate
- 6) Read-across from fatty acids, C16-18 and C18-unsatd., branched and linear, Bu esters
- 7) Weight of evidence approach; read-across from 2-ethylhexyl laurate
- 8) Weight of evidence approach; read-across from isopropyl myristate
- 9) Weight of evidence approach; read-across from ethyl oleate
- 10) Weight of evidence approach; read-across from butyl stearate
- 11) Weight of evidence approach; read-across from isopropyl palmitate
- 12) Weight of evidence approach; read-across from isopentyl laurate
- 13) Weight of evidence approach; read-across from (14C) ethyl oleate
- 14) (Q)SAR; calculation for C18 FA component
- 15) (Q)SAR; calculation for C14 FA component
- 16) (Q)SAR; calculation for C12 FA component
- 17) (Q)SAR; calculation for C16 FA component
- 18) Read-across from isopropyl palmitate
- 19) Read-across from isopropyl myristate
- 20) Read-across from C8-14-fatty acid-2-ethylhexyl ester

* Full Robust Study Summaries can be checked under the ECHA Registered Substance website and with the following registration number: 01-2120103377-63

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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