Technical Information

Stepan

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MAMMALIAN TOXICOLOGY OF IMIDAZOLINE QUATERNARIES

Applicable to these current Stepan products:

ACCOSOFT® 808	ACCOSOFT® 808-90	ACCOSOFT 980		
ACCOSOFT 980 PG				
Applicable to these inactive Stepan products:				
ACCOSOFT® 801	ACCOSOFT® 808 HT			

Toxicological Information:

Test/Conditions	Results/Classification	<u>References</u>
Mammalian Toxicology:		
Acute Oral Toxicity	LD ₅₀ > 20 g/kg	Industry Consortium Data
(rats) (14 day) (diet)	(practically non-toxic orally)	
Acute Percutaneous	LD ₅₀ > 2 g/kg	Stepan Study
Toxicity (rabbit) n=6	The skin in 2/6 animals was	No. 82-015C
	noted to be severely	(Industry Consortium Data)
	thickened. No other effects	
	observed.	
Primary Skin Irritation	PII ¹ =1.75/8	Stepan Study
(rabbit) n=6	(mildly irritating to skin)	No. 76-054A
		(Industry Consortium Data)
Dermal Sensitization	Not a sensitizer	Stepan Study
(guinea pigs)		No. 81-013A
(modified closed patch		
technique)		
28-Day Subchronic Oral	No treatment related toxicity	Stepan Study
Toxicity Study	observed in any of the tested	No. 85-024A
(rat) (gavage)	groups	(Industry Consortium Data)
n=5/sex/dose	(0, 4, 40 and 400 mg/kg/day)	01
91 -day Subchronic	Slight to moderate	Stepan Study
Percutaneous Toxicity Study	erythema/edemia	No. 83-010B
(rabbit)	No evidence of systemic	(Industry Consortium Data)
5-day/week/13weeks	toxicity @ 3 and 30 mg/kg	

0.5 0.1 . 0.17		
91- Day Subchronic Oral Toxicity		Stepan Study
Study	microscopic and macroscopic	No. 83-010C
(rabbit)	observations were considered incidental.	(Industry Consortium Data)
	Male animals fed 1000	
	mg/kg showed an increase	
	in liver enzymes	
	(doses: 0, 10, 100, 1000	
	mg/kg/day)	
Mutagenicity Study	Negative	Stepan Study
(Ames test)		No. 79-014A
,		(Industry Consortium Data)
Teratogenicity Study	No evidence of	Stepan Study
(rabbit) (gavage)	teratogenicity at any of the	No. 79-013E
	dose levels storied (60, 180, 540 mg/kg/day.	(Industry Consortium Data)

References:

PII1= Primary Irritation Index

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