Technical Information | **Stepan**

Stepan Company
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MAMMALIAN TOXICOLOGY OF IMIDAZOLINE QUATERNARIES

Applicable to these current Stepan products:

ACCOSOFT® 808 ACCOSOFT 980 PG	ACCOSOFT® 808-90	ACCOSOFT 980

Applicable to these inactive Stepan products:

ACCOSOFT® 801	ACCOSOFT® 808 HT	

Toxicological Information:

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

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

References:

PII1= Primary Irritation Index

Last Update: 02/25/2003 Revision Reference: TX043-00