



MAMMALIAN TOXICOLOGY OF DIAMIDOAMINE QUATERNARIES

Applicable to these current Stepan products:

ACCOSOFT® 440-75 ACCOSOFT® 501 DEG ACCOSOFT® 550-90 HF ACCOSOFT® 550 HFC ACCOSOFT® 620-75 ACCOSOFT® 780	ACCOSOFT® 460 HC ACCOSOFT® 540 ACCOSOFT® 550-90 HHV ACCOSOFT® 550L-90 ACCOSOFT® 620-90 ACCOSOFT® 780 PG	ACCOSOFT® 501 ACCOSOFT® 550-75 ACCOSOFT® 550-PG ACCOSOFT® 580 ACCOSOFT® 750
--	--	---

Applicable to these inactive Stepan products:

ACCOSOFT® 502 ACCOSOFT® 570 HC	ACCOSOFT® 540 HC	ACCOSOFT® 570
-----------------------------------	------------------	---------------

Toxicological Information:

<u>Test/Conditions</u>	<u>Results/Classification</u>	<u>References</u>
Mammalian Toxicology:		
Acute Oral Toxicity (rat) (gavage) (14 day)	LD ₅₀ > 5g/kg (practically non-toxic orally)	Stepan Study No. 78-032B (Industry Consortium Data)
Acute Percutaneous absorption (rabbit) (14 day)	LD ₅₀ > 2g/kg (slightly toxic dermally) No signs of systemic toxicity	Stepan Study No. 81-015A (Industry Consortium Data)
Primary Eye Irritation (rabbit) (24 hr) n=6	MMS ¹ = 1/110 (minimal eye irritation @ 5% dispersion)	Stepan Study No. 78-032C (Industry Consortium Data)
Primary Skin Irritation (rabbit) (24 hr exposure) n=6	PII ² = 0.8/8 (slightly irritating to skin @ 5% dispersion)	Stepan Study No. 78-032C (Industry Consortium Data)
Human Patch Test (24 hr. exposure) (over a 6 day period)	Minimal skin irritation at concentrations of up to 20% w/v	Industry Consortium Data
Human Patch Test (24 hr. contact) (9 exposures)	No skin sensitization observed 25% w/v aqueous	Industry Consortium Data

over 21 days) (n=205)	solution	
Subchronic Percutaneous Toxicity Study (rabbit) (4 wks)	No treatment related chemical changes observed. The systemic no-observed effect level (NOEL) was 300mg/kg	Industry Consortium Data
Genotoxicity Studies i.) Ames ii.) Mouse Lymphoma Assay	Not a mutagen Negative	Industry Consortium Data

MMS¹ = Maximum Group Mean Score

PII² = Primary Skin Irritation Index

References:

ACCOSOFT® is a registered trademark of Stepan Company.

Last Update: 11/08 /02

Revision Reference: TX041-01

Nothing contained herein grants or extends a license, express or implied, in connection with patents, issued or pending, of the manufacturer or others. The information contained herein is based on the manufacturer's own study and the works of others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness, or adequacy of the information contained herein. The manufacturer shall not be liable (regardless of fault) to the vendee's employees, or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of such information.