Technical Information

Stepan

Stepan Company

Northfield, Illinois 60093 Telephone 847 446 7500



MAMMALIAN TOXICOLOGY OF BETAINES

Applicable to these current Stepan products:

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AMPHOSOL® 810-B	AMPHOSOL® CA	AMPHOSOL® CA-K
AMPHOSOL® CDB-HP	AMPHOSOL® CG	AMPHOSOL® CG-50
AMPHOSOL® DM	AMPHOSOL® DM-X	AMPHOSOL® HCA-HP
AMPHOSOL® HCA-HP-X	AMPHOSOL® HCA-K-X	AMPHOSOL® HCG
AMPHOSOL® HCG-HP	AMPHOSOL® HCG-K	AMPHOSOL® LB
PETROSTEP® CG-50	AMPHOSOL® CG-50-X	AMPHOSOL® CG-C-X
AMPHOSOL® CG-U-X	AMPHOSOL® HCA-SB	AMPHOSOL® DM/MB

Applicable to these inactive Stepan products:

AMPHOSOL® CG-K	AMPHOSOL® HCA	AMPHOSOL® LDB
AMPHOSOL® CDB	AMPHOSOL HCA-C	

Toxicological Information:

Mammalian Toxicology:				
Test/Conditions	Results/Classification	References		
Acute Oral Toxicity	LD50 5g/kg	Stepan Study No. 82-001D		
(rat) (14 day)	(slightly toxic orally)			
n=5/sex/dose				
Primary Eye Irritation	MMS1 27.5/110	Stepan Study No. 82-001E		
(rabbit) n=6	(moderately irritating to eyes) at			
	neutral pH (10% active)			
Primary Skin Irritation	PII2 = 1.75/8	Stepan Study No. 82-001F		
(rabbit) n=6	(mildly irritating to skin) at neutral			
	pH (10% active)_			
Delayed contact sensitization study	No evidence of delayed contact	JACT3		
(guinea pig)	hypersensitivity observed @ 0.5%			
	(v/v)			
Sensitization Study	No evidence of sensitization	JACT		
(human) (patch)				
n=88 to 141				
28-Day Subchronic Toxicity Study	No adverse effects observed at 100	JACT		
(rat) (doses: 100, 500, 1000 mg/kg	mg/kg			
n=88 to 141 28-Day Subchronic Toxicity Study		JACT		

body wt.)		
Mutagenicity Study	Not mutagenic	JACT
(Ames Test)		
Mutagenicity Study	Not mutagenic	JACT
(Mouse Micronuclear Assay)		
Carcinogenicity Study	Not a carcinogen	JACT
(dermal) (mice)		
n=60 duration 20 months		

References:

1MMS=Maximum Group Mean Score 2PII=Primary Irritation Index 3JACT=Journal of American College of Toxicology, Vol. 10, No. 1, 1991 (pp. 33-52)

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