# Technical Information

## Stepan

Stepan Company

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### MAMMALIAN TOXICOLOGY OF BETAINES

**Applicable to these current Stepan products:** 

AMPHOSOL® 810-B AMPHOSOL® CG AMPHOSOL® HCG AMPHOSOL® LB	AMPHOSOL® CG-50	AMPHOSOL® CA-K AMPHOSOL® HCA-HP AMPHOSOL® HCG-K			
Applicable to these inactive Stepan products:					
AMPHOSOL® CG-K	AMPHOSOL® HCA	AMPHOSOL® LDB			
AMPHOSOL® CDB	AMPHOSOL HCA-C				

#### **Toxicological Information:**

Mammalian Toxicology:		
<b>Test/Conditions</b>	Results/Classification	<u>References</u>
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	
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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