### Technical Information

Stepan

Stepan Company

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## MAMMALIAN TOXICOLOGY OF ALKYL ETHER SULFATES

#### **Applicable to these current Stepan products:**

CEDEPAL® TD-403 MKLD	CEDEPAL® TD-407
STEOL® 4N	STEOL® CA-330
STEOL® CS-130 DMDM K	STEOL® CS-130 HP
STEOL® CS-170 UB	STEOL® CS-230
STEOL <sup>®</sup> CS-230-KE	STEOL® CS-230 K
STEOL <sup>®</sup> CS-230 PCK	STEOL® CS-270
STEOL® CS-330	STEOL® CS-360
STEOL® CS-460	STEOL® FS-406
STEOL® OS-330	STEOL® TD-403-65
STEOL <sup>®</sup> 23-2S.70 CP	STEOL TD-403-70P
STEOL® OS-170	STEOL TD-403 MFLD
STEOL® CS-370E	STEOL® CS-270 LDX HP
STEOL® DES-32IS	STEOL®CS-370 L6 CP
STEOL®25-3S/70 FC	
	STEOL® 4N STEOL® CS-130 DMDM K STEOL® CS-170 UB STEOL® CS-230-KE STEOL® CS-230 PCK STEOL® CS-330 STEOL® CS-460 STEOL® CS-460 STEOL® OS-330 STEOL® 23-2S.70 CP STEOL® OS-170 STEOL® CS-370E STEOL® DES-32IS

Applicable to these inactive Stepan products:

CEDEPAL® TD-403

POLYSTEP® B-22

STEOL® CS-270 2.2

#### **Toxicological Information:**

Test/Conditions	<b>Results/Classification</b>	<u>References</u>
Mammlian Toxicology:	•	
Acute Oral Toxicity (rat) (14 day) (gavage)/ n = 5/sex	LD <sub>50</sub> > 5g/kg (practically non-toxic orally)	Stepan Study No. 82-003A, D, G, JACT*, 2(5), 1983
Primary Skin Irritation (rabbit) (24 hr.) n=6	Mild to moderate skin irritation @ 10% active	Stepan Study No. 82-003 B, E, JACT, 2 (5), 1983

Primary Eye Irritation (rabbit) (24 hr.) n=6	Moderate eye irritation @ 10% active	Stepan Study No. 82-003 C, F, I, JACT, 2 (5), 1983
Sensitization Study (guinea pigs) (topical) (3wks.) n=10	Not a sensitizer @ 0.1% solution	JACT, 2 (5), 1983
Chronic Oral Toxicity (rat) (diet) (105 wks.) n=30	No effects observed @ 0.5% in diet	JACT, 2 (5), 1983
Reproduction Study (rats) (diet) (14 wks.) n=10/sex	No effect on fertility, litter size, lactation or survival @ 0.1%	JACT, 2 (5), 1983
Skin Tumorigenicity (mouse) (105 wks.) n=30	No skin tumors observed @ 5% solution	JACT, 2(5), 1983
Vaginal Mucosa Irritation (dog) (24 hr.) n=3	No irritation was observed @ 0.28% active	JACT, 2(5), 1983
Clinical Studies:		
Acute Dermal Irritation (human) (24 hr.) n=20	Mildly irritating @ 18% active	JACT, 2(5), 1983
Maximization Study (human) (24 hr.) n=5	Not a contact sensitizer @ 14.3% aqueous solution	JACT, 2(5), 1983
Conclusion:		1

sodium laureth sulfate is safe as presently used in cosmetics.

#### **References:**

\*Journal of the American College of Toxicology (JACT), pp. 10-23.

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