



MAMMALIAN TOXICOLOGY OF ALKYL ETHER SULFATES

Applicable to these current Stepan products:

CEDEPAL® TD-403 MFLD	CEDEPAL® TD-403 MKLD	CEDEPAL® TD-407
POLYSTEP® B-12	STEOL® 23-2S.70 CP	STEOL® 4N
STEOL® CA-330	STEOL® CS-130	STEOL® CS-130 DMDM K
STEOL® CS-130 HP	STEOL® CS-170	STEOL® CS-170-X
STEOL® CS-170 UB	STEOL® CS-230	STEOL® CS-230-E
STEOL® CS-230-KE	STEOL® CS-230 HP MZ	STEOL® CS-230 K
STEOL® CS-230 K PLUS	STEOL® CS-230 PC HP	STEOL® CS-230 PCK
STEOL® CS-230 PCK PLUS	STEOL® CS-230V-X	STEOL® CS-270
STEOL® CS-270-X	STEOL® CS-270-X/MB	STEOL® CS-270 PLUS
STEOL® CS-270 SU	STEOL® CS-270 ULTRA	STEOL® CS-330
STEOL® CS-330-X	STEOL® CS-360	STEOL® CS-370
STEOL® CS-370-X	STEOL® CS-370 ULTRA	STEOL® CS-460
STEOL® CS-460 PLUS	STEOL® CS-460 ULTRA	STEOL® FS-406
STEOL® OS-170 UB	STEOL® OS-170 ULTRA	STEOL® OS-270
STEOL® OS-330	STEOL® OS-370 PLUS	STEOL® OS-370 ULTRA
STEOL® TD-403-65	STEOL® TD-403-70	STEOL TD-403-70P
STEOL® OS-230 2.0	STEOL® OS-170	STEOL TD-403 MFLD
STEOL® CS-270 LDX	STEOL® CS-370E	STEOL® CS-270 LDX HP
STEOL® CS-270 2.0 LDX	STEOL® DES-32IS	STEOL®CS-370 L6 CP
STEOL®25-3S.70 CP	STEOL®25-3S/70 FC	STEOL® 25-3S/60
STEOL® CS-170-X/MB	STEOL® CS-230 HP-X	STEOL® CS-230 LDX-X
		STEOL® CS-230-X
		STEOL® CS-330 HP-X
		STEOL® CS-330 HP-X/MB
		STEOL® OS-330 28%

Applicable to these inactive Stepan products:

CEDEPAL® TD-403	POLYSTEP® B-22	STEOL® CS-270 2.2
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Toxicological Information:

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

Acute Oral Toxicity (rat) (14 day) (gavage)/ n = 5/sex	LD ₅₀ > 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:		
The Cosmetic Ingredient Review (CIR) Expert Panel recognizes that sodium laureth sulfate may cause skin and eye irritation. However, based on the available information presented for review, the Panel has concluded that 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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