



MAMMALIAN TOXICOLOGY OF AMMONIUM LAURYL SULFATE

Applicable to these current Stepan products:

POLYSTEP® B-7 STEPANOL® AM	STEPANOL® ALS-LS STEPANOL® AM-V	STEPANOL® ALS 70
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Toxicological Information:

Test/Conditions	Results/Classification	References
Mammalian Toxicology:		
Acute Oral Toxicity (rat) (14 day) (gavage) n=5/dose/sex	LD ₅₀ (Lethal Dose) 4700 mg/kg (slightly toxic orally)	JACT*
Acute Dermal Toxicity (rabbit) (14 day) n=6	LD ₅₀ is greater than 10 ml/kg (slightly toxic dermally as 0.75% active)	JACT
Primary Eye Irritation (rabbit) (7 days) n=5	Mild to moderate irritation (Draize) at 2.5 % concentration with no rinsing. Rinsing decreased irritation.	JACT
Primary Skin Irritation (rabbit) (24 hr contact) n=4	PII ₁ =6/8 (severely irritating to skin at 1.5% concentration)	JACT
Clinical Studies:		
Skin Irritation/Sensitization (repeat insult patch test)(human) n=53	Slightly irritation; not a sensitizer at 0.11%	JACT

Conclusion:

The Cosmetic Ingredient Review (CIR) Expert Panel has concluded that Ammonium Lauryl Sulfate "is safe in formulations designed for discontinuous brief use followed by thorough rinsing. In products intended for prolonged contact with skin concentrations should not exceed 1%.

PII₁ = Primary Skin Irritation Index

References:

*Journal of the American College of Toxicology (JACT), Vol. 2 No. 7, 1983, pp. 127-181.

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