



Sustainable Surfactants for Industrial, Home & Hygiene Applications

Cleaning products that carry the Safer Choice label help consumers find products that are made with the safest ingredients with the best performance by companies that are leaders in safety and sustainability. The following surfactants were reviewed by the EPA and found to meet their strict safety criteria required for for both human health and the environment. This includes carcinogenicity, human and aquatic toxicity, and persistence in the environment.

	Betaines				Amine Oxides	Amphoterics
	High Active Mackam® 50 ULB	Low color Mackam® 35 UL HA	Mirataine® BET C 30	Highly Stable Mackam® CB-35	Highly Stable Mackamine® LA EF	Low Foam Mackam® 2CY 75
Chemical Name	Cocamidopropyl Betaine	Cocamidopropyl Betaine	Cocamidopropyl Betaine	Coco- Betaine	Lauramine Oxide	Disodium Capryloamphodiacetate
Actives	38%	30%	30%	30%	30%	25%
Foam	↑ High	↑ High	↑ High	↑ High	↑ High	↓ Low
Caustic Solubility	Good ★★★★☆	Good ★★★★☆	Good ★★★★☆	Good ★★★★☆	Good ★★★★☆	Excellent ★★★★★
Draves Wetting	Moderate ★★★★☆	Moderate ★★★★☆	Moderate ★★★★☆	Fast ★★★★☆	Excellent ★★★★★	None ★★★★☆
Surface Activity	Good ★★★★☆	Good ★★★★☆	Good ★★★★☆	Good ★★★★☆	Good ★★★★☆	Excellent ★★★★★
Coupling/ Hydrotrope	Excellent ★★★★★	Excellent ★★★★★	Excellent ★★★★★	Good ★★★★☆	Good ★★★★☆	Excellent ★★★★★
Preservative	None	None	Methylchloroisothiazoline, Methylisothiazolinone	None	None	None
Applications	Liquid Hand Dish Wash, Hand Soap	Liquid Hand Dish Wash, Hand Soap	Liquid Hand Dish Wash, Hand Soap	Liquid Hand Dish Wash, Acid Cleaners, Foaming Carpet Cleaners	Drain Cleaners, Bleach Cleaners, Bathroom Cleaners, Liquid Dish	Hard surface cleaners, Glass cleaner