PERSONAL CARE

INCROMECTANT™ Range

INCROMECTANT AMEA 100 and AMEA 70	Acetamide MEA
INCROMECTANT LMEA	Lactamide MEA
INCROMECTANT LAMEA	Acetamide MEA (and) Lactamide MEA
INCROMECTANT AQ	Acetamidopropyl Trimonium Chloride
INCROMENTANT LQ	Lactamidopropyl Trimonium Chloride

The INCROMECTANT range is comprise of ethanolamide derivatives with excellent humectant properties, making them more efficient moisturizers then glycerin and highly desirable as replacements for the conventional product. In addition to their outstanding water absorption and water retention properties, the INCROMECTANT humectants also have a less tacky feel than glycerin. Humectants are a class of hygroscopic materials that act to provide both water absorption and water retention. This twofold moisturizing effect allows them to prevent the loss of moisture from the hair or skin, as well as attract moisture from the environment. Because they also reduce evaporation from the emulsion itself, they help prevent moisture loss from the product.

INCROMECTANT AMEA 100 and INCROMECTANT AMEA 70 are 100% and 70% active versions of acetamide MEA, respectively. These hygroscopic materials can be used as clarifying agents in shampoos and cream rinses and as humectants in skin creams and lotions. Use levels: 0.5-15%.

INCROMECTANT LMEA is 100% active lactamide MEA. Compared to acetamide MEA, it has a lower odor and is more stable over a wider pH range. Use level: 0.5-15%.

INCROMECTANT LAMEA is a 100% active blend of acetamide and lactamide MEA in liquid form. The ratio of these two materials has been carefully balanced to give INCROMECTANT LAMEA synergistic properties and superior moisturizing benefits compared to glycerin. INCROMECTANT LAMEA is recommended for both skin care and hair care products.

INCROMECTANT AQ and LQ are quaternized derivatives of acetamide MEA and lactamide MEA, respectively, and as such, are 'moisturizing magnets' that are substantive as well as hygroscopic. Due to their quaternizing, INCROMECTANT AQ and LQ also provide excellent static control. Although INCROMECTANT AQ is the more hygroscopic of the two, both products aid in maintaining the critical moisture balance needed to keep hair healthy looking. As cationic humectants, INCROMECTANT AQ and LQ can be used in virtually all hair care products—as anti-static agents in shampoos and conditions, as plasticizers in setting/styling aids, or as alternatives to glycerin in Ethnic products. As ionic salts, INCROMECTANT AQ and LQ also have the ability to lower the freezing points and raise the boiling points of emulsions and, therefore, can be used to improve the freeze/thaw stability of formulations. Both products are 75% active aqueous solutions and are compatible with anionic, nonionic and cationic systems. Use levels: 0.5-3%.

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Table 1. Typical Analyses

	INCROMECTANT					
	AMEA 100	AMEA 70	LAMEA	LMEA	AQ	LQ
Appearance	Clear viscous liquid	Clear liquid	Pale yellow liquid	Clear yellow liquid	Clear liquid	Clear liquid
Color (Gardner)	3 max.	2 max. (1933)	5 max.	5 max.	2 max.	6 max.
Odor	Typical	Mild	Mild	Mild	Mild, characteristic	Mild
pH	6.0-8.5 (70%)	6.0-8.5	4.5-7.5 (10%)	4.0-6.0 (10%)	3.5-5.0 (3%)	4.0-7.0 (3%)
Acid Value	15.0 max.	13.0 max.	18.0 max.	20.0 max.		
Base Value	15.0 max.	13.0 max.	15.0 max.	15.0 max.		
Moisture Content		30.0% max.				23.0-25.0%
Solids Content		70.0% min.				
Actives Content					72.5-75.5% (MW=194.5)	
Free Amine					1.5 max. (MW=144)	2.0 max. (MW=174)
Amine Hydrochloride					2.0 max. (MW=180.5)	2.0 max. (MW=210.5)
Chloride Content						11.5-12.5%