

## DERIVATIVES - ETHOXYLATED EMULSIFIERS (Nonionic Surfactants)

GIL Products	Industry	End Product or Formulation	Function / Role
<b>Lauryl Alcohol Ethoxylates (C12-C14 7EO)</b>	<b>Home and Industrial Detergents</b> Fabric Wash Dish Wash Textile Wash Wool Scouring	Powders, Liquids, Pastes and Gels	Degreasing, Emulsifier, Wetting Agent and Defoamer
	<b>Hard Surface and Ind. Equip. Cleaners</b> Toilet & Floor Bottle Wash Food Process Plant	Powders, Liquids, Pastes and Gels	Degreasing, Emulsifier, Wetting Agent and Defoamer
	<b>Misc. Industrial Applications</b> Agrochemicals	Pesticides Formulations	Emulsifiers
	Polymers and Plastics	Emulsion Polymerisation	
	Oilfield	Oilfield Additives	
	Paper	Deinking and Rewetting	Degreasing, Emulsifier, Wetting Agent and Defoamer
	Leather	Fat Liquoring	
	Paint	Emulsion Additives	
	Rubber	Stabilising Additive	
	Intermediates for the manufacture of high volume and specialty types of Anionic surfactants, namely – Lauryl Ether Sulfates (1 to 3 moles EO), Lauryl Ether Phosphates (various EO mole ratios) & Lauryl Ether Sulpho-succinates (various EO mole ratios)		

## DERIVATIVES - ETHOXYLATED EMULSIFIERS (Nonionic Surfactants)

GIL Products	Industry	End Product or Formulation	Function / Role
<b>Cetyl, Cetostearyl and Stearyl Alcohol Ethoxylates (C16, C16-C18 &amp; C18 2EO, 10EO, 20EO, 25EO &amp; 30EO)</b>	<b>Personal Care Products</b> Skin and Hair Care	Creams and Lotions	Emulsifiers and Solubilizers
	<b>Pharmaceuticals</b> Skin Products	Creams, Ointments and Lotions	Emulsifiers and Solubilizers
	<b>Misc. Industrial Applications</b> Processed Foods		Emulsifiers
	Polymers and Plastics	Process Additive	Antistatic
	Intermediates for the manufacture of specialty types of Anionic surfactants, namely – Cetyl Ether Phosphates (various EO mole ratios) & Cetyl Ether Sulpho-succinates (various EO mole ratios)		

## DERIVATIVES - EMULSIFYING WAXES

GIL Products	Industry and Category End Product or Formulation	Function / Role
<b>Ginol EW &amp; Ginowax Series</b>  <b>Ginol EW 6820</b> <b>Ginol EW (REK)</b> <b>Ginol EW (UNREK)</b> <b>Ginol EW (NEEM)</b> <b>Ginowax</b>	<b>Personal Care Products</b> <b><i>Skin Care</i></b> Body & Hand Moisturizers, Massage Creams, Hair Removal Creams, Bleach Creams, Other Cleansing creams & lotions, Night Creams (Cold), Sunscreen products  <b><i>Hair products</i></b> Grooming aids, Tonics, Dressings, Conditioners, Shampoo  <b><i>Men's Grooming</i></b> Pomade	Emulsifier (O/W and W/O)  Emollient  Thickener
	<b>Pharmaceuticals</b> <b><i>Topical Application</i></b> Ointments, Salves, Creams, Lotions & Suspensions Skin Protection Products – Sunscreen, Anti-acne, Lacto-Calamine Lotion	Bodying Agent  Carrier of Actives
	<b><i>Usage Levels –</i></b> <b><i>2 to 10% wrt the total formulation (or approx. 25% of the Oil Phase)</i></b>	

## DERIVATIVES - ESTERS

GIL Products	Industry and Category End Product or Formulation	Function / Role
<b>Gincol Series</b>  <b>Cetyl Palmitate</b> <b>Cetearyl Octanoate</b> <b>Cetyl Esters Wax</b> <b>Stearyl Stearate</b> <b>Isopropyl Myristate</b> <b>Isopropyl Palmitate</b> <b>EGDS, EGMS</b>	<b>Personal Care Products</b> <b>Skin Care</b> Body & Hand Moisturisers, Cleansing creams, lotions, Mud Packs, Baby lotions, oils, powders, Night Creams, Sunscreen products	Emollient / Skin Conditioner
	<b>Colour Cosmetics</b> Lipsticks, Blushers, Makeup bases, Foundations	Occlusive
	<b>Hair products</b> Grooming aids, Tonics, Dressings, Conditioners, Non Colour products ; Eye Makeup - pencils, liners, shadows	Carrier of Actives
	<b>Men's Grooming</b> Aftershave lotions, Creams, Aerosol, Brushless	Penetrant
	<b>Bath Products</b> Oils, Tablets, Salts	Spread-ability Improver
	<b>Miscellaneous</b> Suntan Gels, Deodorants, Colognes,	Co-Emulsifier
		Viscosifier
		Solubilizer
		Pearlizer / Sheen Additive

## DERIVATIVES - ESTERS (Continued)

GIL Products	Industry and Category End Product or Formulation	Function / Role
<b>Gincol Series</b>  <b>Cetyl Palmitate</b> <b>Cetearyl Octanoate</b> <b>Cetyl Esters Wax</b> <b>Stearyl Stearate</b> <b>Isopropyl Myristate</b> <b>Isopropyl Palmitate</b> <b>EGDS, EGMS</b>	<b>Pharmaceuticals</b>  <b><i>Topical Applications</i></b> Various Creams, Ointments, Gels and Lotions	Emollient  Skin Conditioner  Carrier of Actives
	<b>Other Industrial Applications</b>  <b><i>Textile / Leather Auxiliaries</i></b> Process Aid	Lubricant  Binder
	<b><i>Metal Working Fluids / Cutting Oils</i></b> Process Aid	Co-Emulsifier
	<b><i>Polishes / Waxes</i></b> Process Aid	Viscosifier
	<b><i>Polymers / Plastics / Laminates</i></b> Process Aid	Solubiliser

## DERIVATIVES - NITROGENOUS PRODUCTS

GIL Products	Industry and Category End Product or Formulation	Function / Role
<b>Ginamide Series</b>  <b>CDEA</b> <b>CMEA</b> <b>CAPB</b> <b>LAO</b>	<b>Personal Care Products</b> <b><i>Skin / Hair Wash Products</i></b> Shampoo (all variants) Body Wash Bubble Bath Hand Wash Sanitizer Men's Grooming Shaving Products Toiletries	Foam Booster     Viscosifier   Mildness Imparting Agent
	<b>Pharmaceuticals</b> <b><i>Topical Products</i></b> Antidandruff Cleansers Germicidal / Disinfectant / Antiseptic Products	Co-Surfactant  Emulsifier
	<b>Other Industrial Applications</b> Hard Surface Cleaning (home & industrial) Textile Auxiliaries Fire Fighting Foam Pigments / Paints Oilfield / Petroleum Cement / Construction	Wetting Agent  Spreading Agent  Antistatic / Mild Conditioning