

FATTY ACIDS

GIL Products	As Such or Derivatised	Industry	End Product or Formulation	Function / Role
Caprylic & Capric Acid (C8 & C10 Fatty Acids)	Glycerol Esters	Personal Care Products Skin & Body Care	Creams and Lotions	Emollient, Solubiliser and Carrier (Actives)
	Polyol Esters	Food Products Specialty	High Energy Supplement	Easy-to-digest Fat
	Nitrogenous Derivatives (Amines, Amides and Imidazolines)	Misc. Industrial Applications Lubricants	Oils and Greases	Emulsifier, Solubilizer and Corrosion Inhibitor

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Lauric, Myristic and Coconut Acids (C12, C14, C1218 & C818 Fatty Acids)	Sodium Soap	Personal Care Products Body, Hand & Face Wash Skin Care (Men's Grooming)	Toilet Soap Cream and Gel	Foamer Emulsifier, Viscosifier and Foamer
	Amide	Personal Care Products Hair and Body Wash	Liquid, Gel and Lotion	Foam Booster, Conditioner and Viscosifier
	Amide	Home and Industrial Detergents Fabric Wash Toilet & Floor Cleaning	Liquid, Paste and Gel	Foam Booster and Viscosifier
	Also used as a raw material for the manufacture of other Specialty Surfactants in three categories, Nonionic, Cationic and Amphoteric, namely: Nonionic – Fatty Acid Ethoxylates Cationic – Via Fatty Amines Amphoteric – Alkyl Amido Betaines, Alkyl Amido Propyl Betaines, Alkyl Imidazolines			

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Stearic Acids (Hytitre, Hystric, Distric, Plastric, Textric & Lubstric) (C18 & C1618 Saturated Fatty Acids)	As Such	Personal Care Products Hair and Skin Care	Creams and Lotions	Emulsifier, Opacifier Viscosifier and Structurant
	Sodium Soap	Food Products Baked Foods Frozen Foods	Process Aid	Emulsifier and Structurant
	Other Metallic Soaps	Pharmaceuticals Various forms	Tablets, Ointments and Suppositories	Excipient, Dispersant, Emulsifier and Coating Agent
	Glycerol Esters	Misc. Industrial Applications Polymers and Plastics	Process Additive	Mold Release, Lubricant, Heat Stabilizer and Antidegradant
	Other Esters	Textile Auxiliaries	Process Additive	Wetting and Conditioning Agent
	Amides	Rubber	Vulcanization Aid, Tyre Manufacture	Lubricant, Antidegradant, Antibloom, Stabilizer and Mold Release
	Also used as a raw material for the manufacture of other Specialty Surfactants in two categories – Anionic – Methyl Ester Sulphonates ; Cationic – Fatty Acid Ester Quats			

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Palmitic Acid >85% to 98% (only high purity)	As Such Alkali, Alkaline Earth and Other Metallic Soaps Esters (Glycerol and other Polyols) Amides	Misc. Industrial Applications Processed Foods Animal Feeds (Dairy) Polymers Personal Care Pharmaceuticals	Process Aid Milk and Fat Content Process Aid Solids, Creams and Lotions Drug Delivery	Emulsifier Supplement Mold Release Emollients and Emulsifiers Solubilizer and Carrier

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Oleic Acids (Lubolic, Liquolic, Emulsolic, Lopour & Indolic) (essentially C1618 Unsaturated Fatty Aids)	As Such	Misc. Industrial Applications Lubricants	Process Additive	Emulsifier, Solubilizer, Stabilizer and Corrosion Inhibitor
	Metallic Soaps (in situ reactions)	Textile Auxiliaries	Process Additive	Wetting and Conditioning Agent
	Esters (with Mono, Di, Tri and Poly Hydroxy Alcohols)	Rubber	Process Additive	Lubricant, Antidegradant, Antibloom, Stabilizer and Mold Release
	Nitrogen based products (Amides, Imidazolines etc.)	Resins, Paints & Printing Inks	Process Additive	Dispersant and Solubilizer
		Oil field	Lubricity Additive	Emulsifier
		Mining Paper	Ore Floatation Deinking	Emulsifier Surfactant

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Oleic Acid 75% (C18=1 >75%)	As Such Metallic Soaps Esters (Short & Long Chain Alcohols, Glycerol, Sorbitol and other Polyols) Amides and other Nitrogenous Derivatives	Misc. Industrial Applications Processed Foods Pharmaceuticals Lubricants Plastic / Polymer / Synthetic Fibres Textile Auxiliaries Rubber Paints, Coatings and Printing Inks	Additives Drug Delivery Process Additive Process Aid Process Additive Process Additive Process Additive	Emulsifier Solubilizer, Carrier Emulsifier, Solubilizer, Stabilizer and Corrosion Inhibitor Anti-Slip, Anti-Static, Plasticizer Wetting and Conditioning Agent Lubricant, Antidegradant, Antibloom, Stabilizer and Mold Release Dispersant and Solubilizer

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Erucic Acid 90% (C22=1 > 90%)	Amides	Misc. Industrial Applications Polymers and Plastics	Process Additive	Slip Agent and Internal Lubricant
	Derivatized as the Ester and Amide, it is also reported to be used as specialty additives in miscellaneous industries, namely, Food (Contact Additive), Lubricants, Textiles (Softener & Conditioner), Recording Products, Ink Additives			
Behenic Acid 85% to 96% (C22 > 85%)	Esters, Amides and Quats	Personal Care Products Hair & Skin Care	Creams and Lotions	Conditioner
	Glycerol Esters	Food Products Processed Foods	Specialty Products	Emulsifier
	Silver Salts	Misc. Industrial Applications Photographic Films	Developer	
Derivatized as the Metallic Salt, Ester and Amide, it is also reported to be used as specialty additives in miscellaneous industries, namely, Lubricants, Textiles (Softener & Conditioner), Recording Products, Ink Additives, Pharmaceuticals, Paper and Adhesives				