

**FATTY
ALCOHOLS
& DERIVATIVES**

2 0 2 0

ENHANCING YOUR NATURAL PORTFOLIO

Temix Oleo was formed in October 2014 by the merger of Oleochimica Italia (previously Undesa Italia) and Temix International.

Given its roots, the new company is based in strong historical traditions and values, while offering extensive expertise in the respective industries of its predecessors: detergents and cosmetics (Temix international), and lubricants, rubber and other industrial application products (Oleochimica Italia).

Honouring Temix International's slogan "Enhancing your natural portfolio", Temix Oleo combines its experience in the distribution of raw materials, selected mainly from renewable sources, together with the technology and experience of Oleochimica Italia in esters and fatty acids production.

REAL SUSTAINABILITY

Now a well-known resource for specialty oleochemical esters, Temix Oleo focused on sustainable chemistry, promoting the use of selected renewable and biodegradable raw materials. Even internally, Temix Oleo promotes eco-compatible business management practices, encouraging its team to continually seek innovative, sustainable and qualitative solutions.

RESEARCH AND DEVELOPMENT

With an ever-changing market, the ability to innovate is paramount. Temix Oleo continually invests in technological innovation, particularly through its Research and Development efforts.

CUSTOMIZED PRODUCTS

Temix Oleo has the ability to develop tailor-made products designed to meet each customer's needs. For more information on the technical details of this process, our sales office would be happy to help you.

CONTENTS

LOW CHAIN FATTY ALCOHOL PAG. 5

MEDIUM CHAIN FATTY ALCOHOL PAG. 6

TYPICAL PRODUCT CHARACTERISTICS PAG. 9

HIGH CHAIN FATTY ALCOHOL PAG. 7

FATTY ALCOHOL ETHOXYLATED PAG. 8

FATTY ALCOHOL BLEND PAG. 10

FATTY ALCOHOLS

Temix Oleo distributes a broad range of fractionated, short chain, long chain and broad cut alcohols, commonly used in the laundry detergents, fabric enhancers, personal care, flavor and fragrances, and industrial applications. In addition to these alcohols are commonly used in the making of surfactants.

In addition to the **Mass Balance** options available for liquid cetyl-stearyl alcohol, and medium chain fatty alcohol, there will be expanded Mass Balance offerings in the future, helping drive traceability and sustainability in the oleochemical industry.

We pride ourselves in providing high quality products with consistent specifications, which can be used in a variety of applications.

Our offerings may be slightly different around the world to meet local regulations and customer demands, so please review our listings of products or check with one of our Account Executives.

LOW CHAIN FATTY ALCOHOL:

PRODUCT	DESCRIPTION	HLB	MAIN APPLICATIONS
ALCOLTEX 899	Caprylic Alcohol	N.A	Construction Chemicals: • Wall Board - sulfate foaming additive Chemical Derivatives: • Production of surfactant Paper Chemicals: • Defoamers Polymers & Plastics: • Plasticizers
ALCOLTEX 1055	Caprylic Capric Alcohol	N.A	Construction Chemicals: • Wall Board - sulfate foaming additive Chemical Derivatives: • Production of surfactant Paper Chemicals: • Defoamers Polymers & Plastics: • Plasticizers Paints, Coatings & Inks: • Ink Solvent • Glycidyl ether reactive diluents for epoxy resins
ALCOLTEX 1090	Capric Alcohol	N.A	Construction Chemicals: Wall Board - sulfate foaming additive Chemical Derivatives: Production of surfactant Paper Chemicals: Defoamers Polymers & Plastics: Plasticizers

MEDIUM CHAIN FATTY ALCOHOL:

PRODUCT	DESCRIPTION	HLB	MAIN APPLICATIONS
ALCOLTEX 1214	Lauryl Myristyl Alcohol	6,0	<p>Chemical derivatives:</p> <ul style="list-style-type: none"> • Production of surfactant <p>Industrial & institutional cleaners:</p> <ul style="list-style-type: none"> • Production of surfactant • Ether sulfates <p>Lubricants and greases:</p> <ul style="list-style-type: none"> • Phosphate esters for extreme pressure additives <p>Paints, coatings & inks:</p> <ul style="list-style-type: none"> • Glycidyl ether reactive diluents for epoxy resins <p>Polymers & plastics:</p> <ul style="list-style-type: none"> • Glycidyl ether reactive diluents for epoxy resins <p>Textile chemicals: production of additive</p>
ALCOLTEX 1216	Lauryl Myristyl Alcohol	6,0	<p>Chemical derivatives:</p> <ul style="list-style-type: none"> • Production of surfactant <p>Industrial & institutional cleaners:</p> <ul style="list-style-type: none"> • Production of surfactant • Ether sulfates <p>Lubricants and greases:</p> <ul style="list-style-type: none"> • Phosphate esters for extreme pressure additives <p>Paints, coatings & inks:</p> <ul style="list-style-type: none"> • Glycidyl ether reactive diluents for epoxy resins <p>Polymers & plastics:</p> <ul style="list-style-type: none"> • Glycidyl ether reactive diluents for epoxy resins <p>Textile chemicals: production of additive</p>
ALCOLTEX 1298	Lauryl Alcohol	6,5	<p>Chemical Derivatives:</p> <ul style="list-style-type: none"> • Production of surfactant <p>Polymers & Plastics:</p> <ul style="list-style-type: none"> • Thio diproionate esters for UV stabilization
ALCOLTEX 1498	Lauryl Alcohol	5,5	<p>Chemical Derivatives:</p> <ul style="list-style-type: none"> • Production of surfactant <p>Polymers & Plastics:</p> <ul style="list-style-type: none"> • Thio diproionate esters for UV stabilization

HIGH CHAIN FATTY ALCOHOL:

PRODUCT	DESCRIPTION	HLB	MAIN APPLICATIONS
ALCOLTEX 1698	Cetyl Alcohol	5,0	Metal Working: <ul style="list-style-type: none"> • Defoamers Adhesives and Sealants: <ul style="list-style-type: none"> • Hot melt adhesives Chemical Derivatives: <ul style="list-style-type: none"> • Surfactant production Personal Care: <ul style="list-style-type: none"> • Lotion emollients Polymers & Plastics: <ul style="list-style-type: none"> • Textile Chemicals
ALCOLTEX 1618	Cetyl-Stearyl Alcohol	4,5	Chemical Derivatives: <ul style="list-style-type: none"> • Surfactant production Industrial & Institutional Cleaners: <ul style="list-style-type: none"> • Surfactant production Lubricants and Greases: <ul style="list-style-type: none"> • Production Phosphate esters for extreme pressure additives Paper Chemicals: <ul style="list-style-type: none"> • Defoamers Personal Care: <ul style="list-style-type: none"> • Lotion emollients
ALCOLTEX 1618 50:50	Cetyl-Stearyl Alcohol	4,7	Chemical Derivatives: <ul style="list-style-type: none"> • Surfactant production Industrial & Institutional Cleaners: <ul style="list-style-type: none"> • Surfactant production Lubricants and Greases: <ul style="list-style-type: none"> • Production Phosphate esters for extreme pressure additives Paper Chemicals: <ul style="list-style-type: none"> • Defoamers Personal Care: <ul style="list-style-type: none"> • Lotion emollients <ul style="list-style-type: none"> • Textile Chemicals
ALCOLTEX 1899	Steryl Alcohol	4,3	Metal Working: <ul style="list-style-type: none"> • Defoamers Adhesives and Sealants: <ul style="list-style-type: none"> • Hot melt adhesives Chemical Derivatives: <ul style="list-style-type: none"> • Surfactant production Personal Care: <ul style="list-style-type: none"> • Lotion emollients Polymers & Plastics: <ul style="list-style-type: none"> • Textile Chemicals

FATTY ALCOHOL ETHOXYLATED

FATTY ALCOHOL ETHOXYLATED

Fatty Alcohol Ethoxylated Middle chain

Temix Oleo offers alcohol ethoxylated of 2, 3, 7 and 9 moles made from our mid chain Alcoltex 1214 alcohol. We pride ourselves in providing high quality products with consistent specifications, which can be used in a wide range of applications including dish liquids, laundry detergents, foaming control agents, textile applications, and other specialty surfactants.

PRODUCT	DESCRIPTION	HLB	MAIN APPLICATIONS
ETOMIX MC2	Laureth-2	0,4	Surfactant production
ETOMIX MC3	Laureth-2	8,1	Surfactant production
ETOMIX MC7	Laureth-2	12	Surfactant for different applications and surfactant production
ETOMIX MC9	Laureth-9	13,2	Surfactant for different applications and surfactant production

Fatty Alcohol Ethoxylated Long chain

Temix Oleo offers alcohol ethoxylates of 20, 25, 30 and 50 moles made from our long fatty chain Alcoltex 1618 alcohol. We pride ourselves in providing high quality products with consistent specifications, which can be used in a wide range of applications including dish liquids, laundry detergents, foaming control agents, textile applications, and other specialty surfactants.

PRODUCT	DESCRIPTION	HLB	MAIN APPLICATIONS
ETOMIX HC20	Ceteareth-20	15,4	Emulsifier for cosmetic and industrial applications
ETOMIX HC25	Ceteareth-25	16,5	Emulsifier for cosmetic and industrial applications
ETOMIX HC30	Ceteareth-30	17,3	Emulsifier for cosmetic and industrial applications
ETOMIX HC50	Ceteareth-50	17,8	Emulsifier for cosmetic and industrial applications

FATTY ALCOHOL BLEND

FATTY ALCOHOL BLEND

Temix Oleo offers a multipurpose technical blend using our fatty alcohol and derivatives.

COMMERCIAL NAME	BLEND DESCRIPTION	APPLICATIONS
ETOMIX HCS	Cetearyl Alcohol, Peg-40 Hydrogenated Castor Oil, Behentrymonium Chloride, Stearalkonium Chloride	Conditioning base for hair care: ideal for balm and hair mask formulations
ETOWAX PO	Laureth-3 Phosphate, Cetearyl Alcohol, Laureth-3, Lauryl Myristyl Alcohol	Effective emulsifier for peroxide emulsions stable in a wide range of ph
ETOWAX AB	Cetearyl Alcohol, Sodium Cetearyl Sulfate, Sodium Lauryl Sulfate	Emulsifier for hair balms and creams
ETOWAX AB/W	Cetearyl Alcohol, Sodium Lauryl Sulfate	Emulsifier for hair balms and creams
ETOWAX AB/N	Cetearyl Alcohol, Sodium Cetearyl Sulfate	Emulsifier for hair balms and creams
ETOWAX NB	Cetearyl Alcohol, Ceteareth-20	Emulsifier for skin care and hair care
ETOWAX NB10	Cetearyl Alcohol, Ceteareth-25	Emulsifier for skin care and hair care
ETOWAX NB30	Cetearyl Alcohol, Ceteareth-30	Emulsifier for skin care and hair care

COMMERCIAL NAME	BLEND DESCRIPTION	APPLICATIONS
ETOWAX SP	Glyceryl Stearate, Ceteareth-20, Ceteareth-12, Cetearyl Alcohol, Cetyl Palmitate	Self emulsifier for o/w emulsions: stable in a wide range of ph
ETOWAX EB	Cetearyl Alcohol, Ceteareth-25, Polysorbate 60, Peg-100 Stearate	Self emulsifier for o/w emulsions: stable in a wide range of ph
TEMCARE SG	Sodium Stearoyl Glutamate	Temcare sg is an anionic o/w amino acid type emulsifier with an excellent emulsifying ability
ETOWAX GMPG	Glyceryl Stearate, Peg-100 Stearate	Emulsifier for skin care: it gives more consistency to the emulsions
ETOWAX CGP60	Cetearyl Alcohol, Glyceryl Stearate, Peg-100 Stearate	Self emulsifier for o/w emulsions: stable in a wide range of ph
ETOWAX EB2	Cetearyl Alcohol, Peg-20 Stearate	Self emulsifier for o/w emulsions: stable in a wide range of ph
TEMEST GMS V40	Glyceryl Stearate	Co-emulsifier and emollient
TEMEST GMS ST	Glyceryl Stearate, Sodium Stearate	Self emulsifier for skin and hair care
ETOWAX OLY	Cetearyl Alcohol, Sorbitan Stearate, Glyceryl Stearate, Cetearyl Alcohol	Self emulsifier for o/w emulsions: stable in a wide range of ph

Temix Oleo Srl

Head office
Via Piero Portaluppi, 17
20138 Milano - Italy
ph +39 02 5099431
fax +39 02 50994300

Production site
Via Giuseppe Garibaldi, 10
40012 Calderara di Reno (BO) -
Italy
ph +39 051 6467220
fax +39 051 6467296