



FACI.

Guaranteed Quality, Respect for the Environment



FACI Group is a global company which still retains its family owned status. This assures focus and commitment on cost competitiveness, prompt decisions, resiliency to economic cycles and allows flexibility in adapting a business model that follows the evolving market needs without compromising either quality or the



fundamental values of sustainable business.

FACI Group has had deep roots in the bio based economy since its foundation. All FACI products and processes comply with the latest standards of sustainability and are sourced from renewable feedstock.



Liquid Stearate Dispersions

	BASE	DRY CONTENT	рН	TYPICAL BULK DENSITY	SIEVE RESIDUE	Description
GRADE		%		g/l	% max	
eChem CD 211	Calcium	49.0-51.0	8.6-10.4	1000-1040	≤3.0	Typical Grade
eChem CD 215K	Calcium	49.0-51.0	8.6-10.4	1000-1040	≤ 3.0	Kosher/Halal grade for food applications
eChem CD 220	Calcium	49.0-51.0	8.6-10.4	1000-1040	≤ 3.0	Concrete admixtures and surface coatings
EC 994C	Zinc	39.0-41.0	6.7-8.5	1000-1040	≤ 0.13	Abrasive paper lubricant





The continuous desire and propensity for finding the best balance between quality, competitiveness and

sustainability is the driver of our daily activities and has existed in the company's culture since its foundation.



Liquid Esters

lhexyl Cocoate Ihexyl Laurate hexyl Palmitate tyl Stearate	mgKOH/g 170-187 176-184 149-157	gl₂/100g ≤8 ≤1	% ≤0.20	% ≤1.0	R max	Y max	
lhexyl Laurate hexyl Palmitate	176-184		≤0.20	<10			
hexyl Palmitate		≤1		_1.0	-	-	Pressroom cleaner, low hazard solvent
	149-157		≤0.10	≤0.20	50 AF	PHA max	Pressroom cleaner, low hazard solvent
tyl Stearate		≤1	≤0.10	≤0.20	-	-	Lubricants, metalworking fluids
	170-180	≤3	≤0.20	≤1.0	2.3	10	Plasticiser, PVC lubricants
tyl Sebacate	260-270	-	≤0.20	≤0.20	50 AF	PHA max	Plasticiser for coating resins, PVC
tyl Sebacate	350-365	-	≤0.20	≤0.10	-	-	Plasticiser for coating resins, PVC
ecyl Stearate	122-132	≤2	≤0.20	-	1.5	5	Lubricants, metalworking fluids
te Ester blend	322-341	-	-	-	-	-	Plasticiser for adhesives
G Polyester	-	-	≤10.0	-	-	-	Plasticiser for phenolic resins
Mono Laurate	142-152	-	-	-	-	-	Emulsifier, oil-in-water emulsions
Mono Laurate	92-102	-	≤0.50	-	-	-	Emulsifier, oil-in-water emulsions
) Mono Oleate	96-103	-	≤0.50	-	-	-	Emulsifier, oil-in-water emulsions
) Mono Oleate	79-89	-	≤0.50	-	-	-	Emulsifier, oil-in-water emulsions
Mono Cocoate	90.5-97.5	-	≤0.50	-	-	-	Emulsifier, oil-in-water emulsions
) Mono Oleate	60-70	-	≤0.50	-	-	-	Emulsifier, oil-in-water emulsions
	-	-	≤0.50	-	-	-	Emulsifier, oil-in-water emulsions
)	Mono Laurate Mono Oleate Mono Oleate Mono Cocoate	Mono Laurate92-102Mono Oleate96-103Mono Oleate79-89Mono Cocoate90.5-97.5Mono Oleate60-70	Mono Laurate92-102Mono Oleate96-103Mono Oleate79-89Mono Cocoate90.5-97.5Mono Oleate60-70	Mono Laurate 92-102 - ≤0.50 Mono Oleate 96-103 - ≤0.50 Mono Oleate 79-89 - ≤0.50 Mono Cocoate 90.5-97.5 - ≤0.50 Mono Oleate 60-70 - ≤0.50	Mono Laurate 92-102 - ≤0.50 - Mono Oleate 96-103 - ≤0.50 - Mono Oleate 79-89 - ≤0.50 - Mono Cocoate 90.5-97.5 - ≤0.50 - Mono Oleate 60-70 - ≤0.50 -	Mono Laurate 92-102 ≤ 0.50 $-$ Mono Oleate 96-103 ≤ 0.50 $-$ Mono Oleate 79-89 ≤ 0.50 $-$ Mono Cocoate 90.5-97.5 ≤ 0.50 $-$ Mono Oleate 60-70 ≤ 0.50 $-$	Mono Laurate 92-102 - ≤0.50 - - Mono Oleate 96-103 - ≤0.50 - - Mono Oleate 96-103 - ≤0.50 - - Mono Oleate 79-89 - ≤0.50 - - Mono Cocoate 90.5-97.5 - ≤0.50 - - Mono Oleate 60-70 - ≤0.50 - -

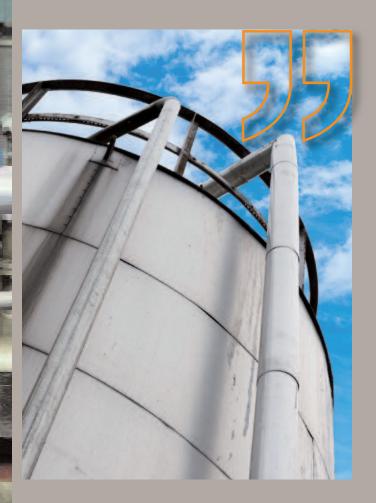
*Lovibond 1" cell



PVC Lubricants

			Lubrican	t Effect ir	Transparent	Physical	Food contac	
FUNCTION	Product	Chemical Composition	Internal		External	Articles	Form	approval by EU Law
-	eSlip 2015	Solid Fatty Acids Ester of Polyol				•	Solid	•
	eSlip 2017	Fatty Acids Ester of Polyol				•	Solid	•
	eSlip 2021	Fatty Acids					Solid	•
	eSlip 2022A	Paraffin, PE wax, ox PE wax					Solid	•
	eSlip 2032	Linear Solid Fatty Acids Ester					Solid	•
TS	eSlip 2040	Liquid Fatty Acids Esters				•	Liquid	
AN	eSlip 2053	Fatty Alcohol					Solid	•
LUBRICANTS	eSlip 2059	Fatty Acids Ester of Polyol from vegetable sources				•	Solid	•
Ē	eSlip 2065	Fatty Acids Ester of Polyol				•	Solid	•
	eSlip 2070S	Complex Ester				•	Solid	•
	eSlip 2078	Complex Ester containing metal soap				•	Solid	•
	eSlip 2090	Fatty Acids Ester - PE wax blend					Solid	•
	EC1414	Fatty Acids Polyglycol Ester					Liquid	•
	EC1719	Fatty Acids Ester of Polyol and Fatty Alcohols					Solid	•
Antiblocking Agent	EC1361	Fatty Acids Secondary Amide					Solid	•

The keys of our success are continuous technical development, close attention to the quality standards of our chemicals and their production process, an open-minded approach to local and international markets, a close cooperation with our customers and adhering to a long-term business view which goes beyond a generation.



Plasticisers

	COMPOSITION	ACID VALUE	WATER CONTENT	FREE ALCOHOL	IODINE VALUE	COLOUR I	.OVIBOND 1/4	Description		
PRODUCT		mg KOH/g	%	%	gl₂/100g	R max	Y max			
EC 847	n-Butyl Stearate	≤0.50	≤0.20	≤0.10	≤3	2.3	10	Plasticiser, PVC lubricant		
eChem DOS	Di-Octyl Sebacate	≤0.50	≤0.20	≤0.20	-	50 AP	HA max	Plasticiser for coating resins		
eChem DBS	Di-Butyl Sebacate	≤0.50	≤0.20	≤0.10	-	-	-	Plasticiser for coating resins		
EC 1628	Benzoate Ester blend	≤4.50	-	-	-	-	-	Plasticiser for adhesives		
EC 1197	DEG Polyester	10-20	≤10	-	-	-	-	Plasticiser for phenolic resins		
	* Lovibond 1" cell									



FACI is a global Group of Companies, active in the production and marketing (oleo) chemical additives since 1943

of bio based (oleo) chemical additives since 1943.

Defoamers					
ТҮРЕ	PRODUCT	PRODUCT VISCOSITY DENSITY 25 °C 20°C		WATER CONTENT	ACID VALUE
		mPa s	g/l	%	mgKOH/g
	eChem DF 1290	400-1400	890-930	-	-
	eChem DF 1314	600-2000	920-960	≤0.50	-
Mineral Oil Based	eChem DF 1315	200-800	885-925	≤0.50	-
-	eChem DF 1329	-	870-910	≤0.20	2.0-7.0
	eChem DF 160	400-1400	890-930	≤0.20	≤5
White Oil Deered	eChem DF 1679	1500-3000	880-920	-	-
White Oil Based	eChem DF 810	500-2000	850-900	-	-
Vegetable Oil Based	eChem DF 174	≤1500	900-1000	-	-
Oil free	eChem DF 885	116-132*	-	≤0.25	≤0.10
Water Based	eChem DF 105	100-300	920-1020	76.0-77.0	-
Silicone Oil Based	eChem 8315	1400-2000	-	-	-
		* measured at	40 °C in mm ² s ⁻¹		
ТҮРЕ	PRODUCT	ASH CONTENT			

ТҮРЕ	PRODUCT	ASH CONTENT 900 °C		
	eChem DF 300P	28.0-32.0		
	eChem DF 340P	31.0-35.0		
Powder Defoamers	eChem DF 355P	43.5-46.5		

Futher information on defoamers are available in the FACI eChem coatings brochure.





Wetting	& Dispersing	g Agents				
ТҮРЕ	PRODUCT	COMPOSITION	MOISTURE	VISCOSITY 20°C	ACTIVE MATTER	Description
	%		%	mPa s	%	
	eSperse 1331	Phosphate ester	-	500-5000	-	Dispersant for inorganic pigments
	eSperse 1346	Polyoxyalkylene glycol ester	19-21	-	-	Dispersant/stabiliser for pigment pastes
	eSperse 1389	Sodium di-octyl sulphosuccinate	-	-	71-75	Wetting agent/emulsifier
For Aqueous Systems	eSperse 1459	Polyoxyalkylene glycol ester	-	200	80	Wetting agent/dispersant
Systems	eSperse 1614	Sodium co-polyacrylate salt	-	500-2500	38-42	Dispersant for inorganic pigments
-	Lomar D Powder	Sodium neutralised napthalene acid	≤6.5	-	-	Dispersant for pigments and fillers
	eChem M500	Polyphosphate / polyacrylate blend	65.5-66.6	5-25	-	Dispersant for inorganic pigments
ForNon-Aqueous	eSperse 1556	Phosphate ester	-	40-60	-	Dispersant for inorganic pigments
Systems	eSperse 188	Polyoxyalkylene ester	-	-	100	Dispersant for pigments and fillers



Coalescing Agents

		VISCOSITY 20°C	SPECIFIC GRAVITY 20°C	FREEZING POINT	FLASH POINT	Description
PRODUCT	Appearance 20°C	20°C (mPa s) %		(°C)	(°C)	
EC 1628	pale yellow liquid	90	1.14	Below 5 (supercools)	>190	



Other products available from the FACI Group

With its seven manufacturing locations (four in Europe, two in the Far East and one in USA), FACI Group is a main supplier of non-toxic stearates, esters, oleochemicals and additives to a multitude of companies operating in different industries around the world. Our main chemistry has been traditionally focused on products derived from stearic acid, both of animal and vegetable origin. While this business continues to be the core activity of our Group, the acquisition of existing production units in Europe and the USA has considerably increased the portfolio of both our chemicals and our customers.

Our growth has always been driven by a forwardthinking attitude, backed up by a strong technical, marketing and development ethos which is associated with a close cooperation with our customers

Products availability:

FACI S.p.A. - Carasco - Italy

Fatty acid, glycerine and their derivatives, metallic soaps and their dispersions, esters, stearamides and epoxydized soya bean oil. Stearic acid and derivatives available on both animal and vegetable basis.

FACI Metalest, S.L.U. - Zaragoza - Spain Fatty acid derivatives, metallic soaps, their dispersions and liquid fatty acids esters.

FACI UK Chemicals Ltd - Knowsley - UK Fatty acid derivatives predominantly metallic soaps.

FACI Asia Pacific Pte Ltd - Jurong Island - Singapore Fatty acid derivatives predominantly metallic soaps and their dispersions, fatty acids esters.

FACI Chemicals (Zhangjiagang) Co., Ltd - Jiangsu Province -PRC

Fatty acid derivatives predominantly metallic soaps and esters.

eChem Ltd - Leeds - UK

Fatty acid derivatives, metallic soaps dispersions and esters.

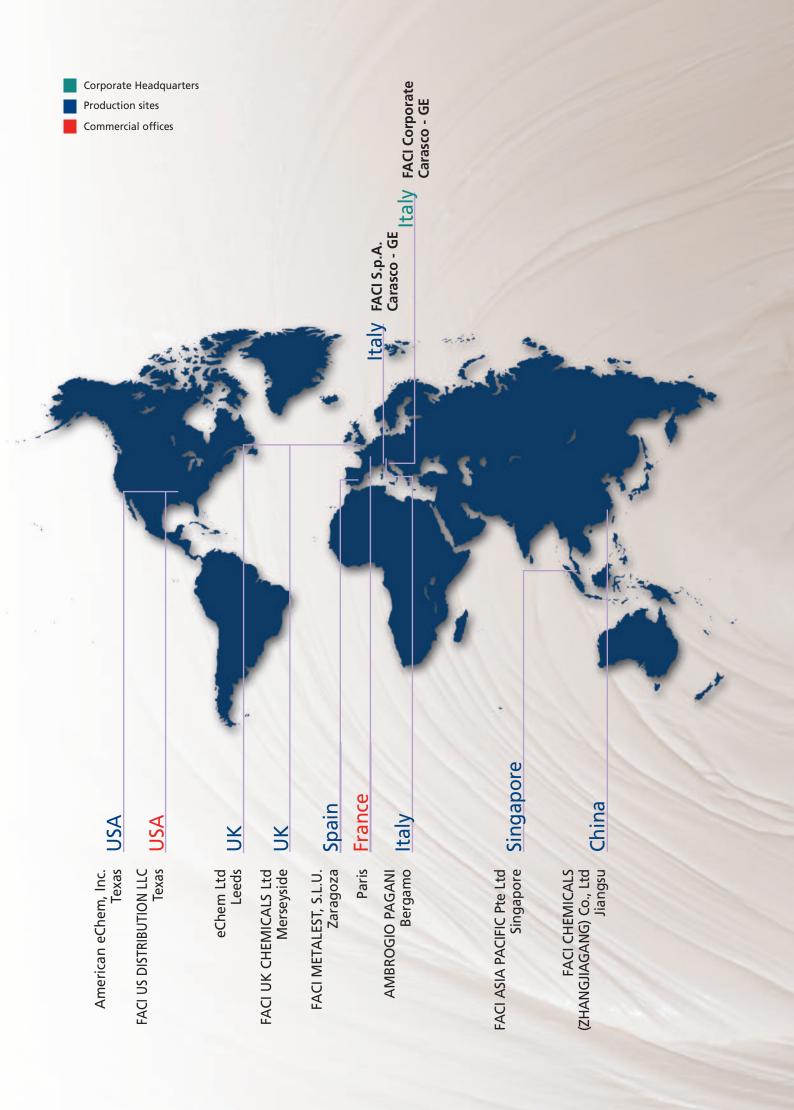
American eChem, Inc. - Lufkin TX - USA

Fatty acid derivatives predominantly metallic soaps dispersions.

Applications

Applications																					
			NO	EED			SOLVENT			ING FLUIDS		AGENT			PERSANT	AINTS	NULSIONS	TEX		VED	ENT
GROUP	ABRASIVES	PAPER	CONSTRUCTION	FOOD AND FEED	RUBBER	CLEANERS	LOW HAZARD SOLVENT	PVC	LUBRICANTS	METALWORKING FLUIDS	PLASTICISER	COALESCING	ADHESIVES	EMULSIFIER	PIGMENT DISPERSANT	EMULSION PAINTS	BITUMEN EMULSIONS	POLYMER LATEX	INKS	F.D.A. APPROVED	WETTING AGENT
PRODUCT																					
eChem CD 211- Calcium Stearate dispersion												T	Т	Т	T						٦
eChem CD 215K - Calcium Stearate dispersion												+								\neg	
eChem CD 220- Calcium Stearate dispersion												-	+							\neg	
EC 994 C - Zinc Stearate dispersion							\square				1		+	+						\rightarrow	
DP 110 F (2-Ethylhexl Cocoate)											-1	-	$^{+}$							+	
DP 110 U (2-Ethylhexl Cocoate)							\square				\neg	\neg	$^{+}$	+						\rightarrow	
EC 1604 (2-Ethylhexl Laurate)							\square				\neg	\neg	$^{+}$	+						\neg	
EC 1043 (2-Ethylhexl Palmitate)												+		+						\neg	
EC 1098 (2-Ethylhexl Stearate)	-	1										\neg		-						1	
EC 1371 (2-Ethylhexl Oleate)												\neg		+						1	
EC 1131 (n-butyl Laurate)		-84												\uparrow						1	٦
EC 847 (n-butyl Stearate)			-	1																	
EC 892 (n-butyl Oleate)																					
DP 120 (n-butyl Cocoate)																					
EC 1094 (isobutyl Stearate)																					
EC 1641 (isobutyl Oleate)																					
eChem DOS																					
eChem DBS																					
EC 1081 (TMP 1.4 C8/C10)	1			-																	
EC 1034 (TMP Tristearate)	0	1																			
eChem ITDS			1																		
EC 1249 (2-Ethylhexl Benzoate)					1																
EC 1628 (Benzoate ester blend)							-														
EC 1197 (DEG polyester)									-												
PEG Ester range																					
eSlip lubricant range																					
EC 1719											\rightarrow										
eChem DF 1290											4	_		_	\downarrow						_
eChem DF 1314				_							\rightarrow	_	_	_	4	_					
eChem DF 1315				_							\rightarrow	_		_		_	_				_
eChem DF 1329				_							\rightarrow	_	_	_		_					_
eChem DF 160 eChem DOF 1679					5	_	\square		_		\rightarrow	-	_	_		_					_
eChem DF 810				_					_		\rightarrow	-	_	-	\dashv	_					_
eChem DF 174									-	-	\rightarrow	_	_	-			_				_
eChem DF 174 eChem DF 885				-			\vdash				-			+	4		_				_
				-			\vdash		_		+			-			\neg				_
eChem DF 105 eChem DF 8315				-			\vdash	\vdash			+		-	-	4		\neg	_			_
eChem DF 300P				-			\vdash				+			+	\dashv	_	\dashv				\neg
eChem DF 340P				-			\vdash		_		\rightarrow	-		+	\dashv	_	\neg	\neg			_
eChem DF 355P	-			-	-	-	\vdash				+			+	\dashv	-	\neg	-		-	-
				-		-	-				\rightarrow	-	-			_	\neg	-		_	
eSperse range				-																	

The information contained in this publication is based on the present state of our knowledge and experience, given without obligation. The product properties given in the publication are not specifications. Our technical advice and recommendations, whether verbal, in writing, or by way of trials, are given for information purposes without commitment. The customer is strongly advised, due to the many outside influences which may affect the product use and application, to carry out his or her own testing and trials.







With seven fully owned manufacturing units:

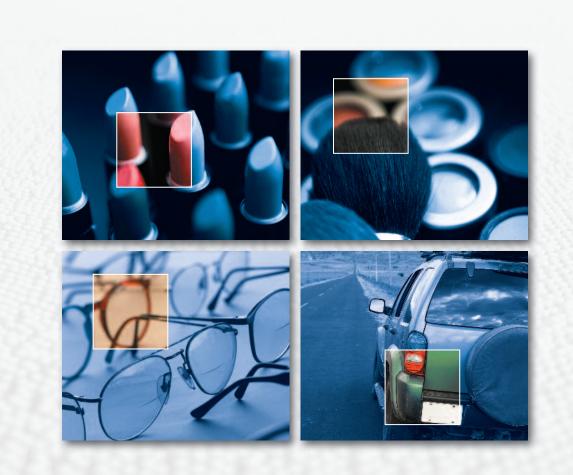
- Carasco (Italy)
- Zaragoza (Spain)
- Knowsley (UK)
- Leeds (UK)
- Jurong Island (Singapore)
- Zhangjiagang (China)
- Lufkin (USA)

The FACI Group today is a leading supplier of

- Non toxic metallic soaps and dispersions
- Fatty esters and a wide range of oleochemicals derived additives

To a large variety of industries WORLD WIDE







FACI Corporate S.p.A.

Headquarters

Via Privata Devoto, 36 - 16042 Carasco Genoa - Italy Phone: + 39 (0185) 36141 Fax: + 39 (0185) 361492 Web: www.facigroup.com • Email: faci@facigroup.com sales@facigroup.com

FACI Group - Production Sites

FACI S.p.A.

Via Privata Devoto, 36 16042 Carasco Genoa - Italy Phone: + 39 (0185) 36141 Fax: + 39 (0185) 361492 Web: www.faci.it Email: faci@faci.it - sales@faci.it

FACI METALEST, S.L.U.

Pol. Malpica - 50016 Zaragoza - Spain Phone: + 34 (976) 574375 Fax: + 34 (976) 572730 Web: www.metalest.com Email: info@metalest.es

FACI Asia Pacific Pte Ltd

Jurong Island - Singapore 627862 Phone: + 65 6896 7088 Fax: + 65 6896 7015 Web: www.faci.com.sg Email: sales@faci.com.sg

FACI Chemicals (Zhangjiagang) Co., Ltd

Jiangsu Province - PRC Phone: + 86 0512 58327966 Fax: + 86 0512 58327960 Email: faci@facichemical.com

FACI UK Chemicals Ltd

Knowsley Industrial Park Merseyside - L33 7TW - UK Phone: + 44 (0) 151 548 6800 Fax: + 44 (0) 151 547 5700 Web: www.facichemicals.com Email: info@facichemicals.com

eChem Ltd

Burley House 147 Kirkstall Road Leeds LS3 1JN - UK Phone: + 44 (0) 113 245 7471 Fax: + 44 (0) 113 244 5082 Web: www.echem-group.com Email: enquiries@echem.co.uk

American eChem, Inc.

1912 Kurth Drive Lufkin - Texas 75904 - USA Phone: + 1 (936) 634 8884 Fax: + 1 (936) 634 8889 Web: www.echem-group.com Email: inquiries@americanechem.com

FACI US Distribution LLC

1912 Kurth Drive Lufkin - Texas 75904 - 1108 - USA Phone: + 1 (936) 633 2334 Fax: + 1 (936) 634 8889 Web: www.faci.it Email: faci@faci.it - sales@faci.it

