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PMC Biogenix has a wide range of polymer additive products for use in the processing of polymers such as polyolefins, engineering plastics, PVC and CPVC, elastomers and styrenics. From polymer processing to extrusion, molding and compounding, PMC Biogenix has a product that can meet your needs and is backed by decades of technical service, research & development (R&D) expertise and a global manufacturing footprint.

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About PMC Biogenix, Inc.

PMC Biogenix is a global, innovation-driven developer, manufacturer and marketer of specialty chemicals produced from renewable resources.

Production, customer service and distribution centers in Asia, Europe and North America allow us to be where you are and where you need us.

The combination of over fifty years of experience developing and manufacturing oleochemical derivatives, dedication to innovation in new products and chemistries, and strong technical application support create the foundation of a powerful portfolio of chemical products that find applications in virtually every chemical end market.

Our products are marketed under leading brand names such as ADVALUBE®, ADVAPAK®, ADVAWAX®, Armoslip®, Kemamide®, Kemester®, and Lubrazinc®.

Located on our 50-acre integrated oleochemicals and derivatives manufacturing site in Memphis, Tennessee, the Center for Renewable Chemistry (CRC) includes a technical center and pilot scale manufacturing facility and serves as the cornerstone for our product, process and application development efforts.

Our 16,000-square-foot technical center houses functional laboratories for product development, process development, application testing, instrumental analysis and wet analysis as well as an 8,000-squarefoot pilot scale manufacturing facility equipped with a broad range of process equipment to develop new processes and produce scale-up quantities for PMC Biogenix customers.



The information contained herein is correct to the best of our knowledge. Your attention is directed to the pertinent Material Safety Data Sheets for the products mentioned herein. All sales are subject to PMC's standard terms and conditions of sale, copies of which are available upon request and which are part of PMC invoices and/or order acknowledgements. Except as expressly provided in PMC's standard terms and conditions of sale, no warranty, expressed or implied, including warranties of merchantability or fitness for a particular purpose, is made with respect to the products described herein. Nothing contained herein shall constitute permission or recommendation to practice any invention covered by a patent without a license from the owner of the patent.













Specialty Ester-based Lubricants

Product	FDA	Physical Form	Melting Point (C°)	Typical Function	Chemistry	Typical Applications
ADVALUBE® AF-4074L	•	Liquid	-	Anti-fog in films	Glycerol ester	Film and sheet processes
ADVALUBE® AF-4192L	•	Liquid	-	Anti-fog in films	Glycerol ester	Film and sheet processes
ADVALUBE® B-3310		Beads	58 - 61	Internal lube	Polyol ester	Extrusion and injection molding
ADVALUBE® B-3314		Beads	105 - 115	Balanced lube	Combination lubricant	Extrusion - profiles
ADVALUBE® B-3315		Beads	105 - 115	Balanced lube	Combination lubricant	Extrusion - profiles
ADVALUBE® B-4540		Powder	85	Balanced lube	Combination lubricant	Extrusion - profiles
ADVALUBE® B-3500		Powder	77 - 83	External lube	Wax ester	Extrusion, calendering
ADVALUBE® E-2100	•	Powder	52 - 64	External lube	Complex polyol ester	Calendering, extrusion - high clarity
ADVALUBE® E-2101	•	Powder	77 - 83	External lube	Complex polyol ester	Calendering, blow molding - high clarity
ADVALUBE® F-1005	•	Beads	56 - 62	Internal lube	Partial ester of glycerin	Calendering, extrusion
ADVALUBE® F-1009	•	Beads	63 - 68	Internal lube	Partial ester of glycerin	Calendering, blow molding - high clarity
ADVALUBE® F-1020		Powder	42 - 47	Internal lube	Dicarboxylic acid ester	Extrusion and injection molding



Stabilizer One Packs

Product	NSF	Physical Form	Melting Point (C°)	Typical Dosage (phr)	Chemistry	Typical Applications
ADVAPAK [®] LS-203NHS	•	Pastilles	105 - 110	1.6 - 2.3	Multi-functional lubricant-stabilizer	High-efficiency extrusion of all sizes of white PVC pipes
ADVAPAK [®] S-1100		Pastilles	99 - 104	3.0 - 4.0	Multi-functional lubricant-stabilizer	Specially formulated for high-efficiency injection-molded fittings
ADVAPAK® S-1201	•	Pastilles	105 - 110	1.7 - 2.4	Multi-functional lubricant-stabilizer	Efficient extrusion for all white small to medium size PVC pipes
ADVAPAK® S-1203	•	Pastilles	105 - 110	1.7 - 2.4	Multi-functional lubricant-stabilizer	Efficient extrusion for all white small to medium size PVC pipes



Lubricants & Waxes

Product	FDA	Physical Form	Melting Point (C°)	Typical Function	Chemistry	Typical Applications
ADVAWAX® 165	•	Prill	75 - 85	External lube	Paraffin wax	Extrusion, injection molding
ADVAWAX® 280	•	Beads	138 - 140	Balanced lube	Synthetic wax	Extrusion, injection molding, calendering



Slip & Anti Block Agents

Erucamides	Acid Value (Max)	lodine Value*	Melting Point °C*	Color, (Max) (Gardner)	Moisture % (Max)	Amide % Min (by IR)	Physical Form
Armoslip [®] E	1	77	82	2	0.25	98	Bead, powder
Kemamide [®] E-60	1	-	-	2	0.25	98	Fine powder
Kemamide [®] E Ultra	1	74	83	2	0.25	98	Bead, pastille, powder
Kemamide [®] EZ	1	75	81	2	0.25	98	Bead, pastille, powder

*Typical values only

Other Amides	Acid Value (Max)	lodine Value*	Melting Point °C*	Color, (Max) (Gardner)	Moisture % (Max)	Amide % Min (by IR)	Physical Form
Armoslip [®] CP Oleamide	1	84	74	2	0.25	98	Bead, powder
Armoslip [®] CPV Veg Oleamide	1	85	78	2	0.25	98	Bead
Armoslip [®] HT Stearamide	1	-	101	2	0.25	98	Bead, powder
Kemamide[®] BR Behenamide	1	-	108	2	0.25	98	Bead
Kemamide[®] OR Oleamide	1	84	74	2	0.25	98	Bead, powder
Kemamide [®] S Stearamide	1	-	102	2	0.25	98	Bead, powder
Kemamide[®] U Heat Stable Oleamide	1	81	73	2	0.25	97	Pastille, powder
Kemamide [®] VO Veg Oleamide	1	-	-	2	0.25	98	Bead, pastille, powder

*Typical values only



Slip & Anti Block Agents (cont.)

Secondary Amides	Acid Value (Max)	lodine Value*	Melting Point °C*	Color, (Max) (Gardner)	Physical Form
Kemamide [®] E-180 Stearyl Erucamide	1	44	74	2	Bead, pastille, powder
Kemamide [®] P-181 Oleyl Palmitamide	3	43	66	2	Bead, powder
Kemamide [®] S-180 Stearyl Stearamide	-	-	94	2	Bead, powder

*Typical values only

Bisamides	Acid Value (Max)	Melting Point °C*	Color, (Max) (Gardner)	Physical Form
Kemamide [®] EBS	7	143	3	Powder, prill
Kemamide [®] W-20	10	117	6	Pellet, prill
Kemamide [®] W-40 Vegetable	10	143	3	Flake, powder, prill

*Typical values only

Ester Additives

Glycerol & Sorbitol Esters	Acid Value (Max)	lodine Value	Color, (Max) (Gardner)	SAP Value	Description
Kemester [®] 150	3	0 - 5	3	-	Partial ester of glycerin
Kemester [®] 300 K Special**	3	60 - 70	2	160 - 180	Partial ester of glycerin
Kemester [®] 400	3	-	4	140 - 150	Partial ester of glycerin
Kemester [®] 695*	3	70 - 80	2	-	Partial ester of glycerin
Kemester [®] 695K**	3	70 - 80	2	-	Partial ester of glycerin
Kemester [®] 84*	3	0 - 2	-	150 - 180	Partial ester of glycerin
Kemester [®] C-5632	15	-	12	160 - 180	Sorbitan Ester

*Vegetable grade available **Kosher



Lubricants & Acid Scavengers

Aluminum Stearates	Manufacturing Process	Moisture % (Max)	Free Fatty Acid % (Max)	Water Soluble Salts % (Max)
22 Powder	Precipitation	1	5.5	1
22 Veg Powder	Precipitation	1	7	1
EA FG Powder*	Precipitation	1	7	1

*Food grade

Calcium Stearates	Manufacturing Process	Moisture % (Max)	Free Fatty Acid % (Max)	Water Soluble Salts % (Max)
FG Powder	Fusion	3.5	1	N/A
FN Powder	Fusion	3.5	1	N/A
FN Veg Powder	Fusion	4	1	N/A
Reg Powder	Fusion	3.5	2	N/A
FP FG Powder	Precipitation	4	3	0.3
FP Powder	Precipitation	2.5	1	0.2

Sodium Stearates	Manufacturing	Moisture	Free Fatty	Water Soluble
	Process	% (Max)	Acid % (Max)	Salts % (Max)
Na St T-1	Fusion	3	1.5	N/A



Lubricants & Acid Scavengers (cont.)

Zinc Stearates	Manufacturing Process	Moisture % (Max)	Free Fatty Acid % (Max)	Water Soluble Salts % (Max)
Lubrazinc [®] W Powder	Fusion	1	1	N/A
ED HS Powder* and Pastille	Fusion	1	1	N/A
NB 60 Powder	Precipitation	1	2	0.5

*Vegetable grade available.

Lithium Stearates	Manufacturing Process	Moisture % (Max)	Alkalinity (Max)	Lithium Content %
306 Powder	Fusion	2	0.02	2.4 - 2.6

Magnesium Stearates	Manufacturing	Moisture	Free Fatty	Water Soluble
	Process	% (Max)	Acid % (Max)	Salts % (Max)
DM ND Powder	Fusion	5	1	N/A





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