



Quality • Service • Technology

Specialty & Custom Products

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Welcome to
ETHOX CHEMICALS
Donaldson Industrial Park
Greenville, South Carolina



THE ETHOX FACILITY

Ethox Chemicals is located in Donaldson Industrial Park, Greenville, South Carolina, on a 40-acre site. Along with three affiliates, Piedmont Chemicals, Custom Synthesis, and Dooley Chemicals, Ethox offers a broad range of technology and products.

100 PSI 316SS reactors from 800 gallons to 6500 gallons
2500 and 7500 gallon Hot Oil reactors
with condensers and receivers
Assorted Mixing tanks



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All information presented in this brochure is believed to be correct; however, no warranty is made as to this information. No recommendation as to the use of any product should be construed as a license to violate any patent.

Our Philosophy

Since its formation in 1968, Ethox Chemicals has provided industry with quality products and service.

The concept of specialized service to each customer has proven successful over the years and it is this concept that Ethox strives to maintain.

Ethox is ready to help solve your particular problem. If specialized products are required, Ethox will be happy to discuss production on a custom basis.



Ethox Products Include

Ethoxylates • Propoxylates • Alkoxylates • Emulsions & Dispersions
Phosphate Esters • Amides • Esters • Amphoteric

The Ethox Staff

The Ethox staff consists of highly trained and experienced professionals who are capable of handling your product needs as well as participating in your process development.

Our production staff is extremely adept at implementing new processes into production.



Ethox Quality

Ethox is ISO 9001:2000 registered
and a practitioner of SQC.

Ethox is dedicated to supplying its customers
in a timely fashion with products which
meet or exceed expectations.



ETHOXYLATED ALCOHOLS AND ALKYL PHENOLS

SURFACTANT	PHYSICAL FORM @25°C	HLB	TYPICAL CLOUD PT. °C (1% SOLUTION)	DRAVES WETTING, SECONDS (0.1% @ 25°C)	COMMENTS
ETHAL 326	LIQUID	8.0	< 25	---	POE (3) LAURYL ALCOHOL --- OIL SOLUBLE EMULSIFIER FOR TEXTILE & INDUSTRIAL APPLICATIONS.
ETHAL 368	PASTE	6.9	< 25	---	POE (3) C ₁₆ -C ₁₈ ALCOHOL--- OIL SOLUBLE EMULSIFIER & LUBRICANT.
ETHAL 926	PASTE	13.3	69	18	POE (9) LAURYL ALCOHOL --- EXCELLENT WATER SOLUBLE DETERGENT & EMULSIFIER.
ETHAL 3328	LIQUID	8.1	< 25	---	POE (3) C12-C18 ALCOHOL --- VERSATILE LOW HLB EMULSION AND DYEING AUXILLARY.
ETHAL CSA-20	SOLID	15.4	>100	---	POE (20) C ₁₆ -C ₁₈ ALCOHOL --- VISCOSITY MODIFIER & EMULSIFIER FOR AQUEOUS SYSTEMS. BASE FOR COSMETIC CREAMS AND LOTIONS.
ETHAL CSA-25	SOLID	16.3	>100	---	POE (25) C ₁₆ -C ₁₈ ALCOHOL --- HYDROPHILIC EMULSIFIER WHICH EXHIBITS GOOD DETERGENCY IN MILDLY ACIDIC OR ALKALINE SOLUTIONS AND HOT AQUEOUS SYSTEMS.
ETHAL DA-4	LIQUID	10.5	< 25	3	POE (4) DECYL ALCOHOL --- AN EFFECTIVE WETTING AGENT AT CONCENTRATIONS OF 0.1% OR LESS; USEFUL INTERMEDIATE IN THE MANUFACTURE OF ANIONIC SURFACTANTS.
ETHAL DA-6	LIQUID	12.4	42	6	POE (6) DECYL ALCOHOL --- MORE WATER SOLUBLE THAN ETHAL DA-4. EXHIBITS RAPID WETTING PROPERTIES.
ETHAL DA-9	LIQUID	14.3	80	15	POE (9) DECYL ALCOHOL --- RAPID WETTING IN HOT AQUEOUS SYSTEMS.
ETHAL DDP-7	LIQUID	10.7	< 25	---	POE (7) DODECYL PHENOL --- MULTI-PURPOSE EMULSIFIER AND DETERGENT. EXCELLENT GREASE CUTTING ABILITY.
ETHAL DNP-4	LIQUID	6.7	< 25	---	POE (4) DINONYL PHENOL --- OIL SOLUBLE EMULSIFIER.
ETHAL DNP-8	LIQUID	10.1	< 25	---	POE (8) DINONYL PHENOL --- LOW FOAM EMULSIFIER FOR SOLVENT SYSTEMS. COUPLING AGENT FOR INTRODUCING WATER INTO NON-AQUEOUS SYSTEMS.
ETHAL DNP-18	PASTE	13.9	70	---	POE (18) DINONYL PHENOL --- WATER SOLUBLE EMULSIFIER & DETERGENT WITH LOW FOAMING PROPERTIES.
ETHAL DNP-150/50%	LIQUID	19.0	>100	---	POE (150) DINONYL PHENOL --- HYDROPHILIC EMULSIFIER & DISPERSING AGENT. USEFUL AS A COMPONENT OF HARD SURFACE CLEANERS & ALKALINE CLEANERS. AUXILIARY FOR ACRYLIC DYEING SYSTEMS.
ETHAL EH-2	LIQUID	8.1	< 25	---	POE (2) 2-ETHYL HEXANOL --- COMPONENT OF LOW FOAM WETTING SYSTEMS, INTERMEDIATE FOR ANIONIC SURFACTANTS.
ETHAL EH-5	LIQUID	12.6	< 25	6	POE (5) 2-ETHYL HEXANOL --- LOW FOAM WETTING AGENT & INTERMEDIATE FOR ANIONIC SURFACTANTS.
ETHAL LA-4	LIQUID	9.2	< 25	---	POE (4) LAURYL ALCOHOL --- GENERAL PURPOSE OIL SOLUBLE EMULSIFIER AND LUBRICANT.
ETHAL LA-7	LIQUID	12.2	49	---	POE (7) LAURYL ALCOHOL --- EXCELLENT DETERGENT AND OIL DISPERSANT FOR METALS, TEXTILES, AND COMMERCIAL CLEANERS.
ETHAL LA-12/80%	LIQUID	14.4	98	---	POE (12) LAURYL ALCOHOL --- ALL PURPOSE DETERGENT, WETTING AGENT, AND EMULSIFIER. 80% SOLUTION FOR EASY HANDLING.
ETHAL LA-23	SOLID	16.8	>100	---	POE (23) LAURYL ALCOHOL --- WATER SOLUBLE EMULSIFIER AND DYEING AUXILLARY.

ETHOXYLATED ALCOHOLS AND ALKYL PHENOLS

SURFACTANT	PHYSICAL FORM @25°C	HLB	TYPICAL CLOUD PT.°C (1% SOLUTION)	DRAVES WETTING, SECONDS (0.1% @25°C)	COMMENTS
ETHAL LA-50	SOLID	18.3	>100	---	POE (50) LAURYL ALCOHOL --- SOLUBILIZER FOR EMULSIONS AND DYEING AUXILIARIES.
ETHAL NP-1.5	LIQUID	4.6	< 25	---	POE (1.5) NONYL PHENOL --- OIL SOLUBLE EMULSIFIER & INTERMEDIATE
ETHAL NP-4	LIQUID	8.9	< 25	---	POE (4) NONYL PHENOL --- OIL SOLUBLE EMULSIFIER & INTERMEDIATE FOR ANIONIC SURFACTANTS.
ETHAL NP-6	LIQUID	10.9	< 25	30	POE (6) NONYL PHENOL --- COUPLING AGENT FOR SURFACTANT SYSTEMS. ALSO USEFUL FOR COUPLING WATER INTO OIL SYSTEMS.
ETHAL NP-9	LIQUID	13.0	54	9	POE (9) NONYL PHENOL --- GENERAL PURPOSE WETTING AGENT & DETERGENT.
ETHAL NP-20	LIQUID	16.0	>100	12	POE (20) NONYL PHENOL --- HIGH TEMPERATURE DETERGENT WITH GOOD ELECTROLYTE STABILITY.
ETHAL NP-307	LIQUID	17.1	>100	---	POE (30) NONYL PHENOL --- WATER SOLUBLE EMULSIFIER FOR OILS AND WAXES. USED AS A WETTING AGENT. 70% SOLUTION FOR EASY HANDLING.
ETHAL NP-407	LIQUID	17.8	>100	---	POE (40) NONYL PHENOL --- STABILIZER FOR EMULSIONS. EMULSIFIER FOR HIGH TEMPERATURE APPLICATIONS. 70% SOLUTION FOR EASY HANDLING.
ETHAL NP-506	LIQUID	18.0	>100	---	POE (50) NONYL PHENOL --- WATER SOLUBLE EMULSIFIER & STABILIZER IN PREPARATION OF FLOOR WAXES & POLISHES. 60% SOLUTION FOR EASY HANDLING.
ETHAL OA-5	LIQUID	7.9	< 25	---	POE (5) OLEYL ALCOHOL --- OIL SOLUBLE EMULSIFIER AND COUPLER.
ETHAL OA-10	LIQUID	12.6	60	---	POE (10) OLEYL ALCOHOL --- MODERATE HLB EMULSIFIER FOR ESTERS & OILS.
ETHAL OA-23	SOLID	15.8	>100	---	POE (23) OLEYL ALCOHOL --- HYDROPHILIC EMULSIFIER & DETERGENT. USEFUL IN STABILIZING DISPERSIONS & SCOURING TEXTILE GOODS.
ETHAL OA-23/70%	LIQUID	15.6	>100	---	POE (23) OLEYL ALCOHOL --- 70% SOLUTION OF ETHAL OA-23
ETHAL OA-35	SOLID	16.9	>100	---	POE (35) OLEYL ALCOHOL --- STABILIZER & EMULSIFIER.
ETHAL SA-20	SOLID	15.3	>100	---	POE (20) C₁₈ ALCOHOL --- VISCOSITY MODIFIER & EMULSIFIER FOR AQUEOUS SYSTEMS. BASE FOR COSMETIC CREAMS AND LOTIONS.
ETHAL TDA-3	LIQUID	7.9	< 25	---	POE (3) TRIDECYL ALCOHOL --- OIL SOLUBLE SURFACTANT & COUPLING AGENT
ETHAL TDA-6	LIQUID	11.4	< 25	8	POE (6) TRIDECYL ALCOHOL --- GENERAL PURPOSE DISPERSANT & EMULSIFIER WITH GOOD WETTING PROPERTIES.
ETHAL TDA-9	LIQUID	13.0	54	7	POE (9) TRIDECYL ALCOHOL --- DETERGENT & WETTING AGENT, USEFUL IN HIGH FOAMING CLEANERS.
ETHAL TDA-12	PASTE	14.5	70	11	POE (12) TRIDECYL ALCOHOL --- DETERGENT & FOAM BUILDER EFFECTIVE IN MILDLY ALKALINE OR ACIDIC SOLUTIONS. GOOD LOW TEMPERATURE DETERGENCY.
ETHAL TDA-18	SOLID	16.0	>100	---	POE (18) TRIDECYL ALCOHOL --- HIGH FOAMING DETERGENT USEFUL AT ELEVATED TEMPERATURES.

ETHOXYLATED FATTY ACIDS

SURFACTANT	PHYSICAL FORM @25°C	HLB	WATER SOLUBILITY	COMMENTS
ETHOX 1122	LIQUID	14.4	SOLUBLE	POE (9) PELARGONATE --- A HIGH COHESION LUBRICANT FOR SYNTHETIC FIBER PRODUCTION & PROCESSING.
ETHOX MA-8	LIQUID	11.7	DISPERSIBLE	POE (8) MONOMERATE --- VERY COST EFFECTIVE SURFACTANT WITH PROPERTIES SIMILIAR TO ETHOX MI-9.
ETHOX MA-15	PASTE	13.7	SOLUBLE	MORE HYDROPHILIC VERSION OF MA-8.
ETHOX MI-9	LIQUID	11.0	DISPERSIBLE	POE (9) ISOSTEARATE --- EMULSIFIER & LUBRICANT: BASED ON LIQUID LONG CHAIN SATURATED FATTY ACID.
ETHOX MI-14	LIQUID	13.0	SOLUBLE	POE (14) ISOSTEARATE --- MORE HYDROPHILIC THAN MI-9 WITH SIMILIAR APPLICATIONS.
ETHOX ML-5	LIQUID	9.3	DISPERSIBLE	POE (5) LAURATE --- EMULSIFIER, LUBRICANT, COUPLING AGENT. VISCOSITY CONTROL AGENT FOR PLASTISOL RESINS.
ETHOX ML-9	LIQUID	13.1	SOLUBLE	POE (9) LAURATE --- HYDROPHILIC SURFACTANT & LUBRICANT. EXHIBITS GOOD LEVELING PROPERTIES IN AQUEOUS SYSTEMS.
ETHOX ML-14	LIQUID	14.9	SOLUBLE	POE (14) LAURATE --- SAME APPLICATIONS AS ML-9 WHEN A HIGH HLB IS NECESSARY.
ETHOX MO-5	LIQUID	8.1	DISPERSIBLE	POE (5) OLEATE --- OIL SOLUBLE EMULSIFIER AND LUBRICANT.
ETHOX MO-9	LIQUID	12.0	DISPERSIBLE	POE (9) OLEATE --- VERSATILE EMULSIFIER FOR NATURAL & SYNTHETIC OILS. GOOD DETERGENCY & LUBRICATING PROPERTIES.
ETHOX MO-14	LIQUID	13.5	SOLUBLE	POE (14) OLEATE --- WATER SOLUBLE EMULSIFIER, DETERGENT AND LUBRICANT.
ETHOX MS-8	SOLID	11.4	DISPERSIBLE	POE (8) STEARATE --- VERSATILE WAX & OIL EMULSIFIER WITH GOOD LUBRICATING PROPERTIES. AN EXCELLENT LUBRICANT FOR AQUEOUS PROCESSING.
ETHOX MS-14	SOLID	13.8	SOLUBLE	POE (14) STEARATE --- SAME APPLICATIONS AS MS-8 WHERE A HIGHER HLB IS NECESSARY.
ETHOX MS-23	SOLID	15.6	SOLUBLE	POE (23) STEARATE --- EMULSIFIER FOR GLYCEROL MONOSTEARATE AND THICKENING AGENT FOR AQUEOUS SYSTEMS.
ETHOX MS-40	SOLID	17.2	SOLUBLE	POE (40) STEARATE --- WAXY LUBRICANT AND STABILIZER FOR AQUEOUS DISPERSIONS. AVAILABLE AS SOLID OR FLAKE.
ETHOX TO-8	LIQUID	9.8	DISPERSIBLE	POE (8) TALLATE --- HIGH ROSIN ACID BASE YIELDS EXCELLENT DISPERSANT PROPERTIES.
ETHOX TO-16	LIQUID	13.4	SOLUBLE	POE (16) TALLATE --- WATER SOLUBLE DETERGENT & CO-EMULSIFIER FOR VARIOUS SOLVENTS.

ETHOXYLATED FATTY AMINES

SURFACTANT	PHYSICAL FORM @25°C	HLB	TYPICAL AMINE NE	WATER SOLUBILITY	COMMENTS
ETHOX CAM-2	LIQUID	6.0	295	INSOLUBLE	POE (2) COCO AMINE --- OIL SOLUBLE EMULSIFIER & INTERMEDIATE FOR AMPHOTERICIS.
ETHOX CAM-5	LIQUID	10.3	420	SOLUBLE	POE (5) COCONUT AMINE --- EMULSIFIER AND ANTISTATIC AGENT.
ETHOX CAM-15	LIQUID	15.2	867	SOLUBLE	POE (15) COCO AMINE --- HYDROPHILIC EMULSIFIER & ANTISTATIC AGENT.
ETHOX DT-15	LIQUID	13.1	513	SOLUBLE	POE (15) TALLOW DIAMINE --- RETARDER FOR ACIDIC DYES. DISPERSANT FOR USE IN ACIDIC SOLUTIONS.
ETHOX DT-30	LIQUID	14.8	830	SOLUBLE	POE (30) TALLOW DIAMINE --- DISPERSANT & LUBRICANT WITH ANTI-CORROSIVE PROPERTIES.
ETHOX HTAM-5	SOLID	9.3	488	DISPERSIBLE	POE (5) HYDROGENATED TALLOW AMINE --- EMULSIFIER & ANTISTATIC AGENT.
ETHOX OAM-2	LIQUID	5.5	365	INSOLUBLE	POE (2) OLEYL AMINE --- EMULSIFIER AND ANTISTATIC AGENT.
ETHOX OAM-308	LIQUID	16.6	1910	SOLUBLE	POE (30) OLEYL AMINE --- SAME APPLICATION AS ETHOX TAM-25. 80% ACTIVE FOR EASE OF HANDLING.
ETHOX SAM-2	SOLID	4.9	362	INSOLUBLE	POE (2) STEARYL AMINE --- EMULSIFIER FOR WAX SYSTEMS, RELEASE AGENT.
ETHOX SAM-10	SOLID	12.3	698	SOLUBLE	POE (10) STEARYL AMINE --- MODERATE HLB EMULSIFIER & COMPONENT OF CORROSION INHIBITORS.
ETHOX SAM-50	SOLID	17.8	2460	SOLUBLE	POE (50) STEARYL AMINE --- LEVELING & DISPERSING AGENT FOR DYEING WITH ACID, DISPERSE, & CATIONIC DYES. HIGH HLB EMULSIFIER & STABILIZER FOR DISPERSIONS.
ETHOX TAM-2	LIQUID	4.2	350	INSOLUBLE	POE (2) TALLOW AMINE --- OIL SOLUBLE EMULSIFIER & LUBRICANT. USEFUL FOR PREPARATION OF HIGH PRESSURE WAX DISPERSIONS
ETHOX TAM-5	LIQUID	9.3	487	DISPERSIBLE	POE (5) TALLOW AMINE --- OIL SOLUBLE EMULSIFIER & COATING AGENT WHICH IS SUBSTANTIVE TO MANY INORGANICS.
ETHOX TAM-8	LIQUID	11.5	620	SOLUBLE	POE (8) TALLOW AMINE --- USED AS AN ANTISTAT, EMULSIFIER, AND METAL LUBRICANT.
ETHOX TAM-10	LIQUID	12.5	700	SOLUBLE	POE (10) TALLOW AMINE --- WATER SOLUBLE EMULSIFIER & INTERMEDIATE FOR AMPHOTERICIS.
ETHOX TAM-15	LIQUID	14.3	927	SOLUBLE	POE (15) TALLOW AMINE --- WATER SOLUBLE EMULSIFIER AND AN INTERMEDIATE FOR AMPHOTERIC SURFACTANTS.
ETHOX TAM-20	LIQUID	15.4	1147	SOLUBLE	POE (20) TALLOW AMINE --- LUBRICANT & ANTISTATIC AGENT FOR YARNS. LEVELING AGENT FOR ACID DYES ON NYLON.
ETHOX TAM-25	SOLID	16.0	1367	SOLUBLE	POE (25) TALLOW AMINE --- LEVELING AGENT FOR NYLON DYEING & ANTIPRECIPITANT WHEN CROSS DYEING.
ETHOX TAM-408	LIQUID	17.2	2550	SOLUBLE	POE (40) TALLOW AMINE --- DYE LEVELER.

ETHOXYLATED GLYCERIDES

SURFACTANT	PHYSICAL FORM @25°C	HLB	WATER SOLUBILITY	COMMENTS
ETHOX 1212	LIQUID	12.6	SOLUBLE	ETHOXYLATED COCONUT GYCERIDE --- EXCELLENT LUBRICANT FOR TEXTILES & METALS.
ETHOX 2119	LIQUID	---	SOLUBLE	POLYOXYALKYLENE COCONUT GLYCERIDES --- LUBRICANT FOR TEXTILES AND METALS.
ETHOX 2132	LIQUID	---	DISPERSIBLE	POLYOXYALKYLENE COCONUT GLYCERIDES --- LUBRICANT FOR TEXTILES AND METALS.
ETHOX 2976	LIQUID	---	SOLUBLE	POLYOXYALKYLENE CASTOR OIL --- EMULSIFIER AND LUBRICANT.
ETHOX 2992	LIQUID	---	DISPERSIBLE	ETHOXYLATED COCONUT GLYCERIDES --- LUBRICANT FOR TEXTILES & METALS.
ETHOX CO-5	LIQUID	4.0	INSOLUBLE	POE (5) CASTOR OIL --- OIL SOLUBLE EMULSIFIER. DISPERSANT FOR PIGMENTS & CLAYS
ETHOX CO-16	LIQUID	8.6	DISPERSIBLE	POE (16) CASTOR OIL --- EMULSIFIER & LUBRICANT WITH EXCELLENT SOFTENING & COATING PROPERTIES.
ETHOX CO-25	LIQUID	10.8	DISPERSIBLE	POE (25) CASTOR OIL --- EMULSIFIER FOR NATURAL AND SYNTHETIC OILS WITH EXCELLENT LUBRICATING PROPERTIES.
ETHOX CO-30	LIQUID	11.8	SOLUBLE	POE (30) CASTOR OIL --- WATER SOLUBLE EMULSIFIER FOR NATURAL FATS & OILS. DISPERSANT FOR INORGANICS & STABILIZER FOR LATEX EMULSIONS.
ETHOX CO-36	LIQUID	12.6	SOLUBLE	POE (36) CASTOR OIL --- LUBRICANT, SOFTENER, & EMULSIFIER FOR TEXTILES AND LEATHER
ETHOX CO-40	LIQUID	13.0	SOLUBLE	POE (40) CASTOR OIL --- COLD WATER SOLUBLE SURFACTANT. SLIGHTLY HIGHER IN HLB THAN CO-36
ETHOX CO-81	LIQUID	15.9	SOLUBLE	POE (81) CASTOR OIL --- DYEING ASSISTANT & LUBRICANT FOR TEXTILE FIBERS. 90% ACTIVE.
ETHOX CO-200	SOLID	18.1	SOLUBLE	POE (200) CASTOR OIL ---ANTISTAT & LUBRICANT WITH GOOD MOISTURE REGAIN.
ETHOX CO-200/50%	LIQUID	18.1	SOLUBLE	POE (200) CASTOR OIL --- 50% SOLUTION OF ETHOX CO-200
ETHOX HCO-5	LIQUID	4.0	INSOLUBLE	POE (5) HYDROGENATED CASTOR OIL --- LOW HLB EMULSIFIER & LUBRICANT FOR TEXTILES AND METALS. USEFUL FOR WATER IN OIL EMULSIONS.
ETHOX HCO-16	LIQUID	8.6	DISPERSIBLE	POE (16) HYDROGENATED CASTOR OIL --- HEAT STABLE EMULSIFIER FOR NATURAL & SYNTHETIC OILS.
ETHOX HCO-25	LIQUID	10.8	DISPERSIBLE	POE (25) HYDROGENATED CASTOR OIL --- VERSATILE EMULSIFIER & LUBRICANT FOR SOFTENERS. LOW VOLATILITY & UNSATURATION.
ETHOX HCO-200/50%	LIQUID	18.1	SOLUBLE	POE (200) HYDROGENATED CASTOR OIL --- A 50% SOLUTION FOR EASY HANDLING. STABILIZER & VISCOSITY CONTROL AGENT FOR EMULSIONS.

ESTERS

SURFACTANT	PHYSICAL FORM @25°C	HLB	WATER SOLUBILITY	COMMENTS
ETHOX 2156	LIQUID	---	INSOLUBLE	SHORT CHAIN TRIGLYCERIDE ESTER --- EXCELLENT LUBRICANT FOR TEXTILES & METALS.
ETHOX 2610	LIQUID	---	INSOLUBLE	PPG 1025 DITALLATE --- OIL IN OIL DISPERSANT & LUBRICANT, USEFUL FOR BOTH SILICONE & NONSILICONE DEFOAMERS. A LOW FOAM ADDITIVE FOR VARIOUS FORMULATIONS.
ETHOX 2672	LIQUID	12.7	SOLUBLE	METHOXY PEG 400 LAURATE --- LOW VISCOSITY LUBRICANT.
ETHOX 3095	LIQUID	11.4	SOLUBLE	POE (50) SORBITOL HEXAOLEATE --- EXCELLENT EMULSIFIER & LUBRICANT FOR HEAT STABLE SYSTEMS.
ETHOX 3118	LIQUID	---	DISPERSIBLE	END CAPPED TRIGLYCERIDE ESTER --- EXCELLENT LUBRICANT FOR TEXTILES & METALS.
ETHOX 3346	LIQUID	---	DISPERSIBLE	END CAPPED TRIGLYCERIDE ESTER --- EXCELLENT LUBRICANT FOR TEXTILES & METALS.
ETHOX 3505	LIQUID	---	DISPERSIBLE	BUTOXY PEG 400 OLEATE --- LOW VISCOSITY LUBRICANT.
ETHOX DL-5	LIQUID	6.1	DISPERSIBLE	PEG 200 DILAURATE --- EXCELLENT LUBRICANT & EMULSIFIER FOR LOW FOAMING APPLICATIONS.
ETHOX DL-9	LIQUID	10.8	DISPERSIBLE	PEG 400 DILAURATE --- OIL SOLUBLE EMULSIFIER & LUBRICANT USEFUL IN LOW FOAMING SYSTEMS.
ETHOX DO-9	LIQUID	8.8	DISPERSIBLE	PEG 400 DIOLEATE --- A VERSATILE EMULSIFIER FOR OILS & SOLVENTS. USEFUL FOR EMULSIFICATION OF INDUSTRIAL PROCESS FLUIDS.
ETHOX DO-14	LIQUID	10.3	DISPERSIBLE	PEG 600 DIOLEATE --- AN EXCELLENT OIL & FAT EMULSIFIER & LUBRICANT.
ETHOX SO-9	LIQUID	9.8	DISPERSIBLE	PEG 400 SESQUIOLEATE --- GOOD OIL EMULSIFIER. USEFUL AS AN EMULSIFIER FOR NON-SILICONE DEFOAMERS.

ETHOXYLATED SORBITAN ESTERS

ETHSORBOX L-20	LIQUID	16.7	SOLUBLE	POE (20) SORBITAN MONOLAURATE --- WATER SOLUBLE EMULSIFIER FOR OILS, SOLVENTS, & FATS. LUBRICANT FOR COTTON & RAYON.
ETHSORBOX O-5	LIQUID	10.1	DISPERSIBLE	POE (5) SORBITAN MONOOLEATE --- EXCELLENT WATER IN OIL EMULSIFIER AND LUBRICANT
ETHSORBOX O-20	LIQUID	15.0	SOLUBLE	POE (20) SORBITAN MONOOLEATE --- EFFECTIVE EMULSIFIER FOR INDUSTRIAL & TEXTILE LUBRICANTS.
ETHSORBOX S-20	SOLID	15.2	SOLUBLE	POE (20) SORBITAN MONOSTEARATE --- WAXY LUBRICANT WITH SOFTENING PROPERTIES.
ETHSORBOX TO-20	LIQUID	11.1	DISPERSIBLE	POE (20) SORBITAN TRIOLEATE --- EXCELLENT LUBRICANT & EMULSIFIER FOR INDUSTRIAL PROCESS FLUIDS.

PHOSPHATE ESTERS

SURFACTANT	PHYSICAL FORM @25°C	BASE	% ACTIVITY	CATION	COMMENTS
ETHFAC 102	SOLID	ALIPHATIC	99	H ⁺	OIL SOLUBLE ESTER WHICH IS AN EXCELLENT ANTISTATIC AGENT & LUBRICANT.
ETHFAC 103	LIQUID	ALIPHATIC	99	H ⁺	LOW HLB EMULSIFIER AND ANTISTAT.
ETHFAC 104	LIQUID	ALIPHATIC	99	H ⁺	LOW FOAMING ANIONIC PENETRANT & EMULSIFIER.
ETHFAC 106	LIQUID	ALIPHATIC	99	H ⁺	POTASSIUM SALT IS AN EFFECTIVE ANTISTATIC AGENT FOR TEXTILES AT LOW LEVELS OF APPLICATION.
ETHFAC 124	LIQUID	ALIPHATIC	99	H ⁺	WETTING AND SCOURING AGENT
ETHFAC 133	LIQUID	ALIPHATIC	99	H ⁺	OIL SOLUBLE ESTER WITH EXCELLENT LUBRICANT PROPERTIES.
ETHFAC 136	LIQUID	ALIPHATIC	99	H ⁺	LOW FOAMING ESTER WITH HYDROTROPIC PROPERTIES.
ETHFAC 324	LIQUID	ALIPHATIC	85	K ⁺	USEFUL IN WETTING & SCOURING FORMULATIONS AS A DETERGENT. EXCELLENT ANTISTATIC PROPERTIES FOR PROCESSING TEXTILE FIBERS.
ETHFAC 140	LIQUID	ALIPHATIC	99	H ⁺	EXCELLENT OIL SOLUBLE LUBRICANT BASED ON LONG CHAIN FATTY ALCOHOL.
ETHFAC 141	LIQUID	ALIPHATIC	99	H ⁺	WETTING AND SCOURING AGENT.
ETHFAC 142W	LIQUID	ALIPHATIC	99	H ⁺	OIL & WATER DISPERSIBLE EMULSIFIER. LUBRICANT ADDITIVE FOR PROCESS FLUIDS.
ETHFAC 153	LIQUID	ALIPHATIC	99	H ⁺	EMULSIFIER AND ANTISTATIC AGENT, USED IN DETERGENTS AND CLEANERS.
ETHFAC 161	LIQUID	ALIPHATIC	99	H ⁺	EXCELLENT EMULSIFICATION PROPERTIES MAY BE VARIED BY FORMING DIFFERENT SALTS.
ETHFAC 163	LIQUID	ALIPHATIC	99	H ⁺	EMULSIFIER, ANTISTATIC AGENT AND DRY CLEANING DETERGENT.
ETHFAC 353	LIQUID	ALIPHATIC	90	K ⁺	ANTISTATIC AGENT FOR FIBERS & YARNS WITH VERY GOOD EMULSIFICATION PROPERTIES.
ETHFAC 361	LIQUID	ALIPHATIC	90	K ⁺	DETERGENT, EMULSIFIER & ANTISTATIC AGENT WITH CORROSION INHIBITION PROPERTIES.
ETHFAC 363	LIQUID	ALIPHATIC	90	K ⁺	SLIGHTLY MORE HYDROPHILIC THAN ETHFAC 353 WITH SAME APPLICATIONS.
ETHFAC 391	LIQUID	ALIPHATIC	90	K ⁺	EXCELLENT DETERGENCY IN TEXTILE SCOURING. EFFECTIVE DISPERSANT AT ELEVATED TEMPERATURES.
ETHFAC NP-16	LIQUID	AROMATIC	99	H ⁺	NEUTRALIZATION WITH VARIOUS BASES YIELDS A RANGE OF EMULSIFICATION PROPERTIES.
ETHFAC NP-110	LIQUID	AROMATIC	99	H ⁺	HYDROPHILIC DETERGENT & EMULSIFIER ESPECIALLY USEFUL IN LIQUID DETERGENT FORMULATIONS.
ETHFAC PB-1	LIQUID	ALIPHATIC	99	H ⁺	HYDROPHILIC SURFACTANT WITH HIGH CAUSTIC STABILITY. USEFUL FOR HIGHLY ALKALINE CLEANERS.
ETHFAC PB-2	LIQUID	ALIPHATIC	99	H ⁺	MORE HYDROPHILIC VERSION OF ETHFAC PB-1

PHOSPHATE ESTERS (Continued)

SURFACTANT	PHYSICAL FORM @ 25°C	BASE	% ACTIVITY	CATION	COMMENTS
ETHFAC PD-6	LIQUID	ALIPHATIC	99	H ⁺	HIGHER TOLERANCE TO ALKALI THAN ETHFAC 161. USEFUL AS A COMPONENT OF ALKALINE CLEANERS.
ETHFAC PD-990	LIQUID	ALIPHATIC	90	H ⁺	VERY EFFECTIVE DISPERSANT FOR SOLVENTS WHEN USED IN A CONTINUOUS AQUEOUS PHASE.
ETHFAC PP-16	LIQUID	AROMATIC	99	H ⁺	LOW FOAMING HYDROTROPE FOR COUPLING NONIONICS INTO ALKALINE SYSTEMS.
ETHFAC PP-36/50%	LIQUID	AROMATIC	50	K ⁺	NEUTRALIZED 50% SOLUTION OF ETHFAC PP-16
ETHOX 2195	LIQUID	AROMATIC	99	H ⁺	VERY EFFECTIVE AS A COMPONENT OF LOW FOAM SOLVENT EMULSIFICATION SYSTEMS. SALTS ARE GOOD DISPERSING AGENTS.
ETHOX 1358	LIQUID	ALIPHATIC	99	H ⁺	VERY EFFECTIVE ANTISTATIC AGENT & LUBRICANT.
ETHOX 2684	LIQUID	ALIPHATIC	99	H ⁺	GOOD COUPLING AGENT FOR NONIONIC SURFACTANTS IN ALKALI SYSTEMS.
ETHOX 2911	LIQUID	AROMATIC	99	H ⁺	LOW FOAMING COUPLER FOR ALKALINE SYSTEMS.
ETHOX 2928	LIQUID	ALIPHATIC	75	NR ₃ ⁺	EXCELLENT CORROSION INHIBITOR FOR METAL WORKING FLUIDS.
ETHOX 2951	LIQUID	AROMATIC	99	H ⁺	USED IN WATER BASED METAL WORKING FLUIDS.
ETHOX 2956	LIQUID	AROMATIC	99	H ⁺	EMULSIFIER WITH GOOD OIL SOLUBILITY.
ETHOX 2967	LIQUID	AROMATIC	50	K ⁺	ANIONIC DISPERSANT FOR PIGMENTS.
ETHOX 2989	LIQUID	ALIPHATIC	99	H ⁺	ANTISTATIC AGENT.
ETHOX 3085	LIQUID	ALIPHATIC	99	H ⁺	PHOSPHATED GLYCERIDE-METAL WORKING LUBRICANT.

SPECIALTY & MISCELLANEOUS SURFACTANTS

SURFACTANT	PHYSICAL FORM @25°C	% ACTIVITY	TYPICAL CLOUD PT.°C (1% SOLUTION)	COMMENTS
EMULSIFIER 632/90%	LIQUID	90	25	MODIFIED ALKYL PHENOL ALKOXYLATE --- A HIGHLY EFFECTIVE LOW FOAM DISPERSANT FOR FATS, OILS & WAXES.
ETHOX 1345K	LIQUID	90	>100	FORMULATED ANIONIC/NONIONIC DETERGENT --- FOR TEXTILES HAS EXCELLENT WETTING PROPERTIES.
ETHOX 1372	LIQUID	100	61	POLYOXYALKYLENE FATTY AMINE --- USEFUL AS A LOW FOAM DYE LEVELER FOR ACID DYES.
ETHOX 1437	LIQUID	100	20	POLYOXYALKYLENE GLYCOL ETHER --- SERVES AS A LOW FOAM WETTING AGENT & PENETRANT USEFUL IN TEXTILE PROCESSING.
ETHOX 1449	LIQUID	100	16	POLYOXYALKYLENE GLYCOL ETHER --- USED AS A WETTING AGENT & DETERGENT IN A VARIETY OF LOW FOAM APPLICATIONS.
ETHOX 2191	LIQUID	100	15	POLYOXYALKYLENE GLYCOL ETHER --- USED AS A COMPONENT OF LOW FOAM EMULSIFIERS FOR SOLVENTS & OILS. GOOD LOW FOAM WETTING AGENT.
ETHOX 2400	LIQUID	100	54	POLYOXYALKYLENE GYCOL ETHER --- EFFECTIVE FOR WETTING AT ELEVATED TEMPERATURES.
ETHOX 2407	LIQUID	100	30	POLYOXYALKYLENE GLYCOL ETHER --- LOW FOAM DETERGENT & RINSE AID. USEFUL IN CLEANING FORMULATIONS & COMMERCIAL DISHWASHING FORMULAS.
ETHOX 2418	LIQUID	100	25	POLYOXYALKYLENE GLYCOL ETHER --- LUBRICANT AND EMULSIFIER FOR LOW HLB SYSTEMS.
ETHOX 2423	LIQUID	100	40	POLYOXYALKYLENE GLYCOL ETHER --- GOOD DETERGENCY PROPERTIES. AN EFFECTIVE REWETTER FOR TEXTILES.
ETHOX 2440	LIQUID	100	25	POLYOXYALKYLENE GLYCOL ETHER --- LOW FOAM SURFACTANT FOR USE AT LOWER TEMPERATURES.
ETHOX 2449	LIQUID	100	>100	MODIFIED COCONUT DIETHANOLAMIDE WITH LOWER FOAM FOR CONTROLLED SUDS DETERGENTS.
ETHOX 2471	LIQUID	100	36	POLYOXYALKYLENE GLYCOL ETHER --- LOW FOAM WETTER.
ETHOX 2483	LIQUID	100	40	POLYOXYALKYLENE GLYCOL ETHER --- LOW FOAM SURFACTANT USED FOR WETTING, CLEANING & RINSING AT HIGHER TEMPERATURES.
ETHOX 2496	LIQUID	100	< 25	POLYOXYALKYLENE GLYCOL ETHER --- LOW FOAMING WETTING AGENT.
ETHOX 2648	LIQUID	100	---	FORMULATED EMULSIFIER --- SPECIFICALLY DESIGNED FOR THE EMULSIFICATION OF TRIGLYCERIDES WITHOUT CO-EMULSIFIERS.
ETHOX 2650	LIQUID	35	>100	COCO BETAINE --- FOAMING AGENT & DETERGENT.
ETHOX 2680	LIQUID	100	62	POLYOXYALKYLENE GLYCOL ETHER --- NON-GELLING WETTING AGENT AND DEGREASER.
ETHOX 2848	LIQUID	100	42	POLYOXYALKYLENE GLYCOL ETHER --- NON-GELLING WETTING AGENT AND DEGREASER.

SPECIALTY & MISCELLANEOUS SURFACTANTS (Continued)

SURFACTANT	PHYSICAL FORM @25°C	% ACTIVITY	TYPICAL CLOUD PT.°C (1% SOLUTION)	COMMENTS
ETHOX 2680	LIQUID	100	62	POLYOXYALKYLENE GLYCOL ETHER --- NON-GELLING WETTING AGENT AND DEGREASER.
ETHOX 2848	LIQUID	100	42	POLYOXYALKYLENE GLYCOL ETHER --- NON-GELLING WETTING AGENT AND DEGREASER.
ETHOX 2938	LIQUID	100	34	POLYOXYETHYLENE STYRENTATED PHENYL ETHER --- EXCELLENT DISPERSANT FOR PIGMENTS AND ORGANIC EMULSIONS.
ETHOX 2939	LIQUID	100	47	POLYOXYALKYLENE GLYCOL ETHER --- EXCELLENT LOW FOAM DETERGENT FOR METAL CLEANING.
ETHOX 2960	LIQUID	80	72	POLYOXYETHYLENE STYRENATED PHENYL ETHER --- PIGMENT DISPERSANT AND EMULSIFIER.
ETHOX 2984	SOLID	100	< 25	STEARIC ACID ALKANOLAMIDE --- EXCELLENT DISPERSANT, LUBRICANT AND SOFTENING AGENT.
ETHOX 2988	LIQUID	100	SOLUBLE	POLYOXYETHYLENE GLYCOL ETHER --- INTERMEDIATE FOR ESTERS AND POLYESTERS.
ETHOX 3037	LIQUID	100	15	POLYOXYALKYLENE GLYCOL ETHER --- LOW FOAM WETTING AND SCOURING DETERGENT.
ETHOX 3115	LIQUID	100	---	POLYOXYALKYLENE TALLOW AMINE --- LOW FOAM EMULSIFIER.
ETHOX 3166	LIQUID	100	---	TALL OIL DIETHANOLAMIDE --- CORROSION INHIBITOR, LUBRICANT, AND EMULSIFIER FOR METALWORKING FLUIDS AND OILS.
ETHOX 3223	LIQUID	100	19	POLYOXYALKYLENE GLYCOL ETHER --- LOW FOAM WETTING AND SCOURING AGENT.
ETHOX 3501	LIQUID	100	<25	POLYOXYALKYLENE GLYCOL ETHER --- LOW FOAMING LUBRICANT AND EMULSIFIER.
ETHOX BPA-X	---	---	---	BISPHENOL A ETHOXYLATE OR PROPOXYLATE --- MANUFACTURED ON A CUSTOM BASIS.
ETHOX COA	LIQUID	100	< 25	COCONUT DIETHANOLAMIDE --- FOAMING AGENT, DETERGENT & DISPERSANT FOR A VARIETY OF APPLICATIONS.
ETHOX LF-1226	LIQUID	100	30	POLYOXYALKYLENE GLYCOL ETHER --- AN EXTREMELY EFFECTIVE DETERGENT FOR REMOVAL & DISPERSION OF OILS & WAXES. USEFUL AS AN INTERMEDIATE FOR ANIONIC SYSTEMS.
ETHOX TAM-20DQ	LIQUID	100	>100	TAM-20 DIETHYL SULFATE SALT --- LUBRICANT, TEXTILE LEVELING AGENT AND DISPERSANT.

BLOCK POLYMERS

SURFACTANT	TYPICAL MOLECULAR WEIGHT	% EO	TYPICAL CLOUD PT.°C (1% SOLUTION)	COMMENTS
ETHOX 17-R-1	1900	12	34	DEFOAMER, DISPERSING AGENT, WETTING AGENT, EMULSIFIER.
ETHOX 25-R-2	3100	20	29	DEFOAMER, DISPERSING AGENT, WETTING AGENT, EMULSIFIER.
ETHOX 25-R-8	9000	80	45	DISPERSANT, EMULSIFIER & INTERMEDIATE FOR ESTERS.
ETHOX 31-R-1	4000	10	24	OIL SOLUBLE SURFACTANT IMPARTS FOAM CONTROL TO DISPERSANTS.
ETHOX 90-R-4	7000	40	42	SURFACTANT FOR METALWORKING FLUIDS ANTIMIGRANT FOR TEXTILE DYEING.
ETHOX L-61	2000	10	24	USEFUL AS A LOW FOAM DETERGENT, EMULSIFIER, LUBRICANT AND INTERMEDIATE FOR ESTERS & POLYESTERS.
ETHOX L-62	2200	20	32	SIMILAR APPLICATIONS TO L-61
ETHOX L-64	3000	40	60	SIMILAR APPLICATIONS TO L-62
ETHOX L-121	5000	10	14	EXCELLENT EMULSIFIER COMPONENT FOR COATING RESINS.
ETHOX L-122	6000	20	18	LOW FOAM EMULSIFIER FOR HIGH MOLECULAR WEIGHT RESINS. BASE FOR ESTERS & FUNCTIONAL FLUIDS.
ETHOX LB-1715	2600	---	10	DEFOAMER, DISPERSING AGENT, WETTING AGENT, EMULSIFIER.

PERSONAL CARE AND HOUSEHOLD PRODUCTS

Ethox Chemicals supplies a diverse range of Esters, Ethoxylates, Propoxylates and Specialty Chemicals to the Personal Care Market. Our 30 years of experience in producing quality products for a variety of industries provides Ethox with a unique perspective in developing 'Specialties' for Cosmetics, Skin-care Products, Sunscreens and Hair Care Formulations. Our technical expertise, laboratory facilities, versatile pilot plant, and state-of-the-art manufacturing plant assures that we can support our customer's R & D efforts. We provide effective solutions, from the design phase through commercialization of new and custom products for Personal Care.

MULTI-FUNCTIONAL

PRODUCT	INCI NAME	COMMENTS
C-Syn GC	CAPRYLIC/CAPRIC TRIGLYCERIDE	EMOLLIENT AND SKIN-CONDITIONING (OCCLUSIVE).
ETHAL CSA-X	CETEARETH-3, 20, & 25	EMULSIFIER, SOLUBULIZER AND CLEANSING AGENT. SKIN & HAIR FORMULATIONS.
ETHAL DA-X	DECETH-4, 6, & 9	EMULSIFIER.
ETHFAC 141	DECETH-4 PHOSPHATE	EMULSIFIER. DETERGENT CONCENTRATES & HOUSEHOLD CLEANERS.
ETHFAC 161	DECETH-6 PHOSPHATE	EMULSIFIER. DETERGENT CONCENTRATES & HOUSEHOLD CLEANERS.
ETHFAC PD-990	DECETH-9 PHOSPHATE	EMULSIFIER. DETERGENT CONCENTRATES & HOUSEHOLD CLEANERS.
ETHAL LA-X	LAURETH-4, 7, 9, & 12	EMULSIFIER. BATH, SHAMPOO & SKIN-CARE FORMULATIONS.
ETHAL LA-X	LAURETH-23 & 50	EMULSIFIER, SOLUBULIZER AND CLEANSING AGENT.
ETHFAC 142W	LAURETH-4 PHOSPHATE	CLEANSING AGENT.
ETHFAC 102	LAURYL PHOSPHATE	EMULSIFIER.
ETHOX 31-R-1	MEROXAPOL 311	EMULSIFIER AND SOLUBILIZER.
ETHAL NP-X	NONOXYNOL-4, 6, 9, 30, 40, & 50	EMULSIFIER, SOLUBULIZER AND CLEANSING AGENT.
ETHFAC NP-110	NONOXYNOL-10 PHOSPHATE	CLEANSING AGENT AND HYDROTROPE.
ETHFAC NP-16	NONOXYNOL-6 PHOSPHATE	CLEANSING AGENT AND HYDROTROPE.
ETHAL OA-X	OLETH-5, 10, 23, & 35	EMULSIFIER. HAIR DYES & COLORS, HAIR CONDITIONERS, SKIN-CARE PRODUCTS, MOISTURIZERS AND CLEANSING AGENTS. LOW FOAMING MATERIAL FOR CLEANERS & LAUNDRY DETERGENTS.
ETHFAC 140	OLETH-4 PHOSPHATE	EMULSIFIER.
ETHOX OLO	OLEYL OLEATE	EMOLLIENT FOR SKIN & HAIR.

MULTI-FUNCTIONAL (Continued)

PRODUCT	INCI NAME	COMMENTS
ETHOX OAM-2	PEG-2 OLEAMINE	FOAM BOOSTER.
ETHOX SAM-X	PEG-2, 10, 50 STEARAMINE	ANTISTATIC AGENT, FOAM BOOSTER AND SOLUBILIZER.
ETHOX HTAM-5	PEG-5 HYDROGENATED TALLOW AMINE	ANTISTATIC FOR HAIR TINTS.
ETHOX DO-9	PEG-8 DIOLEATE	EMULSIFIER FOR BATH OILS.
ETHOX SO-9	PEG-8 SESQUIOLEATE	EMULSIFIER.
ETHOX MS-X	PEG-8 & 14 STEARATE	EMULSIFIER. SHAVING CREAM, BODY & HAND PREPARATIONS, HAIR CONDITIONERS AND MOISTURIZERS.
ETHOX TO-8	PEG-8 TALLATE	EMULSIFIER.
ETHOX DO-14	PEG-12 DIOLEATE	EMULSIFIER AND LUBRICANT.
ETHOX MI-14	PEG-12 ISOSTEARATE	CLEANSING AGENT.
ETHOX MO-14	PEG-12 OLEATE	EMULSIFIER FOR COSMETICS.
ETHOX ML-14	PEG-12 LAURATE	EMULSIFIER.
ETHOX TAM-X	PEG-15, 20, & 25 TALLOW AMINE	ANTISTATIC AGENT AND HAIR CONDITIONERS.
ETHOX TAM-20 DQ	PEG-20 TALLOW AMMONIUM ETHOSULFATE	ANTISTATIC AGENT. HAIR CONDITIONER.
ETHOX MS-X	PEG-23 & 40 STEARATE	SOLUBULIZER AND CLEANSING AGENT.
ETHOX OAM-308	PEG-30 OLEAMINE	SOLUBULIZER, ANTISTATIC AGENT AND CLEANSING AGENT.
ETHSORBOX PSML-80	PEG-80 SORBITAN LAURATE	SOLUBILIZER AND CLEANSING AGENT. SHAMPOOS, BABY PRODUCTS AND CLEANSING LOTIONS.
ETHOX L-61	POLOXAMER 181	LOW-FOAM DETERGENT.
ETHOX L-62	POLOXAMER 182	SOLUBILIZER AND CLEANSING AGENT.
ETHOX L-121	POLOXAMER 401	EMULSIFIER.
ETHOX L-122	POLOXAMER 402	EMULSIFIER.
ETHFAC 353	POTASSIUM TRIDECETH-6 PHOSPHATE	EMULSIFIER AND CLEANSING AGENT. HAIR CARE PRODUCTS.
ETHAL SA-20	STEARETH-20	SOLUBULIZER, CLEANSING AGENT. MOISTURIZERS, SKIN-CARE PRODUCTS, HAIR CONDITIONERS, EYE MAKEUP, SUNCARE PRODUCTS, HAIR STRAIGHTENERS AND PERMANENT WAVES.
ETHAL TDA-X	TRIDECETH-3, 6, 9, 12, & 18	EMULSIFIER. HAIR DYES & COLORS.
ETHFAC 133	TRIDECETH-3 PHOSPHATE	EMULSIFIER.
ETHFAC 163	TRIDECETH-6 PHOSPHATE	EMULSIFIER.



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