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To Distribution

From R. A. Schriesheim

Date September 10, 1982

Subject FOUR PAGE PRODUCT LISTING BROCHURE

The attached Conoco Chemicals four page product brochure is now available for customer distribution.

Copies of these sheets are being sent to each regional sales office (see distribution). Should you need additional copies, please refer to your Sales Manual procedures for ordering literature from Hibbert-Southern in Houston.

Robert A. Schriesheim

R. A. Schriesheim.
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HYDROTROPES

Used as solubilizing agents in detergent formulations and as anti-caking agents in spray-dried powder detergents.

Product	Common Name
AXS	Ammonium Xylene Sulfonate
STXS	Sodium Toluene Xylene Sulfonate
SXS	Sodium Xylene Sulfonate

MURIATIC ACID

High-purity water white acids, used as analytical reagents, pH control agents, swimming pool chemicals.

Product	% HCl
20° Baumé	31.45
22° Baumé	35.21

ALUMINUM CHLORIDE LIQUOR

CONOCO Aqueous Aluminum Chloride Liquor is 24% $AlCl_3$ with a clear, straw yellow color. Applications include anti-perspirant production, paper sizing, sewage (phosphate) treatment and preparation of roofing granules.

LPA

LPA is a high-purity aliphatic hydrocarbon with very low levels of aromatics and reactive impurities.

CONOCO CATAPAL® SB ALUMINA

Catapal SB alumina is an ultra-high purity pseudo-Boehmite alumina. It performs as an excellent catalyst and catalyst substrate; easily formed.

CONOCO CDR™ FLOW IMPROVER

Conoco CDR™ Flow Improver is a solution of a high molecular weight polymer in a hydrocarbon solvent. When adding CDR™ to crude oil or hydrocarbon products flowing through a pipeline, the energy loss caused by turbulence is decreased significantly. Consequently, flow improvement and energy savings can result.

SYNTHETIC METHYLATED PHENOLS

Conoco is a world leader in the production of high-purity synthesized methylated phenols which are consistent in quality and performance. These products find a broad range of end uses as chemical building blocks in polymers, agricultural intermediates, antioxidants, pharmaceuticals, textile finishes and specialty compounds and solvents.

CONOCO	Generic Name	Purity
OC-120 ortho Cresol	O-Cresol	99.0%
X-225 Xylenol	2, 6 Xylenol	98.0%
X-410 Xylenol	2, 4/2, 5 Xylenol	80.0%
TMP-620 Trimethyl Phenol	2, 3, 6 Trimethyl Phenol	95.0%
TMP-630 Mesitol	2, 4, 6 Trimethyl Phenol	98.0%
CA-500 Cresylic Acids	Mixed Isomers	99.0%

CONOCO METHYL CHLORIDE

An intermediate in the production of silicones, lead alkyls, butyl rubber polymerization, quaternary amines and herbicides.

CONOCO PC-500 RUBBER RECLAIM AGENT

A mixture of tolyl/xylyl disulfides in a naphthenic solvent used to reclaim natural rubber and rubber co-products.

OLEFINS AND AROMATICS

Conoco capitalizes on its integrated position in crude oil, refinery processing and natural gas to produce ethylene from heavy and light steam cracking facilities. Conoco produces ethylene, propylene, benzene, butadiene and a variety of co-products used as basic building blocks by the CPI. These products are used to manufacture derivatives such as polyethylene, acrylonitrite, SBR, nylon, PVC resins, polystyrene, linear alcohols, glycols, nonionic surfactants, emulsifiers and antifreeze.

Ethylene and Co-Products

Ethylene
Propylene (Chemical, Refinery Grades)
Butadiene
Crude C_4's
Mixed Butylenes
Benzene
O-Xylene
M/P-Xylene
Resin Oil
Heavy Oils
Dicyclopentadiene
Naphthalene
Ethylbenzene
Methylacetylene-Allene Concentrate
C_9 Solvent
Isoprene Concentrate
Piperylene Concentrate
2-Butene
Pyrolysis Gasoline

Ethylene Derivatives

Ethylene Oxide
Ethylene Glycol
Ethylene Dichloride
Vinyl Chloride Monomer

HIGH DENSITY POLYETHYLENE

Based on a new generation of technology, Conoco now offers an exciting line of HDPE Resins which improve process economics and expand end use applications. A world scale plant, scheduled to come on stream in second quarter 1983, will manufacture resins which process faster, have improved ESCR/Top load balance and exhibit better odor and color properties than competitive materials.

Blow Mold—Resins permit part lightweighting through exceptionally high ESCR without sacrificing top load and impact strength. Parts exhibit high gloss, excellent color and low odor.

Injection Mold—Premium quality, fast processing homopolymer and copolymer resins. Parts exhibit high impact and top load strength with low warpage, good color and low odor.

Film—HMW HDPE resins are designed specifically for downgauged, high strength films suitable for development of new end use applications.

Pipe—A broad line of both smooth wall and corrugated pipe resins. Tough, flexible, corrosive resistant smooth wall pipe resin with NSF and PPI qualification pending.

POLYVINYL CHLORIDE PLASTICS (PVC)

Conoco Chemicals produces a wide spectrum of PVC resins, rigid dry blends and flexible compounds to meet the needs of the PVC marketplace. All Conoco resins are produced via Conoco's large-reactor technology. Conoco's flexible PVC compounds and rigid PVC dry blends are prepared using premium heat stabilizers, primary plasticizers and other micro-ingredients specially selected to give our customers top-quality products.

PVC Resins

CONOCO	Inherent Viscosity	ASTM Class	Comments
5265	0.68	GP-1-16000	—Low molecular weight resin for use primarily in rigid applications.
5305	0.74	GP-2-16000	—Low molecular weight resin for use in rigid calendaring and profile markets where low-melt viscosity is required.
5385	0.93	GP-4-16000	—Intermediate molecular weight resin for rigid or flexible applications
5425	1.04	GP-5-15300	—High molecular weight resin for rigid or flexible applications.
5465	1.11	GP-6-15300	—High molecular weight resin for development of maximum physical properties.

Dry Blends

CONOCO	Cell Class	Comments
80273	12454	—Multi-screw compound meeting NSF-PPI approved pressure pipe and DWV requirements.
90171	12454	—First commercially available dry blend for injection molding of pipe fittings.
90172	12454	—Impact modified injection molding dry blend.
80174	12454	—Single-screw compound meeting NSF-PPI approved pressure pipe and DWV requirements.
RP100	—	—White, high impact, exterior rigid profile compound.

Profile Extrusion Compounds

CONOCO	Specific Gravity	Shore Hardness (Instantaneous)	Comments
17461	1.38	74A	—Specifically formulated for general profile extrusions; meets CS 230-60 requirements; good low-temperature flexibility.
18161	1.38	81A	
18961	1.38	89A	
18031	1.23	82A	—Formulated for high clarity and gloss.
18831	1.21	88A	
14331	1.23	45D	
15041	1.26	50D	
16851	1.32	68D	
18551	1.33	81A	—Automotive extrusion molding meeting the requirements of several automotive industry specifications.
45541	1.27	55D	—Unfilled, UV stabilized for outdoor uses requiring good low-temperature flexibility.
16141	1.28	60D	

Injection Molding Compounds

27121	1.18	71A	—General molding requiring good low temperature.
28131	1.23	81A	
28831	1.23	88A	—General molding applications.
44171	1.44	41D	
48562	1.36	85A	—Automotive moldings meeting the requirements of several automotive industry specifications.
44461	1.38	44D	

Wire and Cable Compounds

34431	1.37	44D	—TW, sunlight-resistant, general-purpose 80° insulation and jacketing.
34641	1.37	46D	—THW, sunlight-resistant, appliance wiring rated 90° and 1000V.
35851	1.38	58D	—THWN, THHN, 105° wiring rated 90° and 1000V.
38963	1.24	88A	—Clear electrical tubing; 90° rating, VW-1.
38611	1.35	86A	—General high-gloss jacketing, liquid-tight conduit, flame retardant.
39032	1.34	88A	—General high-gloss jacketing, low-temperature flexibility.
34501	1.36	45D	—Tray cable jacketing, 80° rating. Flame retardant, low temperature flexibility.
35031	1.36	50D	—Primary automotive wiring, extra high gloss.
34533	1.32	56D	—Primary automotive wiring, low-temperature flexibility.

The compounds listed represent only a portion of the Conoco PVC product line. For information concerning products for specific applications, please contact our sales offices.