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91

BTX
2~3 가 가
Licence M.W. Kellogg Lummus Creast,
Stone & Webster () UOP(BTX)
Chevron Chemical 95 77
, BTX Petroleos Mexicanos가 60
Aromatic
가 가 가 MTBE
(, MTBE 가
PP HDPE · LDPE · SM Up-Scale 93
가
가
(ENPLA) 가 가
CFC 가 , VAM · Acetic Acid
가 가

(X)

			ENG'G		
<Ethylene>					
Petrochemical Corp. of Singapore	400,000	—	—	95	가
Petrokemya	500,000	Kellogg	Mitsui E&S	93/94	
Reposol Petroleo	17,000(X)	Stone & Webster	—	S	
Sosal	380,000(X)	—	Process Ind. Eng'g	91	
Shell/Pertamina	375,000	Shell	—	93	
Repsol's Puertollano	257,000	—	Stone & Webster	—	
Sabic	500,000	Kellogg	Heurtey Petrochem. Eng'g	93/94	
AIDC	300,000	—	—	—	
China Nat'l Technical Import - Export	115,000	Lummus	TEC/Tecnicas	94	
Thai Olefins	350,000	S & W	Daelim/S&W/Sumitomo	94	
Reliance Industries	320,000	S & W	S & W	93	
Chevron Chemical	770,000(X)	S & W	S & W	95	
Tosoh	600,000	—	—	95	
DSM	115,000(X)	—	KTI	92	
<Propylene>					
Petrokemya	300,000	Millisecond/Heurtey	—	93/94	
Petrochemical/Shell	200,000	—	—	95	가
Sabic	300,000	—	—	93/94	
<BTX>					
Enip	(P-X, O-X)	—	—	—	
Slovnafit State Enterprises	120,000(P-X)	UOP	—	94	
Ecopetrol	8,000B/D	—	—	S	
Tabriz Petrochem	55,000	Krupp Koppers	Daelim	93	
Urumqi General Petrochem	55,000(P-X)	UOP	Babcock	95	
Napco	305,000(Aromatic)	IPCL	—	—	
Petroleos Mexicanos		UOP	Spie-Batignolles	S	
Pertamina	600,000(Aromatic)	—	—	95	
Mitsubishi Petrochemical		Mitsubishi	Chiyoda	92	
<LDPE>					
Novacor	160,000(Benzene) 130,000(Benzene)	—	—	93	
Petroquimica Triunfo		DOW	—	A	
DSM	33,000(X)	DSM	Technip	94	
Polimenos del Lago	130,000(L-)	—	Societe Francaise de PE	94	
Nigerian Nat'l Petroleum	185,000 60,000	IFP/Dupont	Stone & Webster/Kobe Stell	93	
Pertamina/Neste	270,000	—	—	—	

			ENG'G		
<HDPE>					
DSM	120,000	Quantum	Lummus Crest	93	
Novacor	120,000(X)	—	—	—	
Petromont	200,000(X)	—	—	—	
Enlp/Reposd Quminica	130,000	Phillips Petroleum	Spanish Comp.	93	
Nigerian Nat'l Petroleum	270,000(LLDPE+)	Dupont/Sclairtech	Stone&Webster/ Kobe Steel	93	
Hoechst	160,000(X)	Hoechst	—	93	
Hüls	160,000	Unipol	Union Carbide	93	
Pertamina/Neste	450,000(LDPE+)	—	—	—	
Texas Eastman	117,000(LLDPE+)	BP	Brown & Root	93	
<PP>					
Hoechst	15,000	Himont	Initec	94	
Petro chemical Corp. of Asia Pacific	110,000	—	—	93	
Poliolefinas	100,000	—	—	92	
Saudi European Petrochem.	200,000	Unipol	John Brown/ Snamprogetti	93	
Ibn Zahr	200,000	Union Carbide	John Brown	93	
USSR	80,000	Union Carbide	John Brown	93	
<SM>					
Panjin Naitural Gas Chemical	60,000	Badger	Partec Lavalin	94	
Shell Eastern Chemical	320,000	—	—	95	가
Badger	60,000	Fina/Badger	—	94	
Mitsui Toatsu	240,000	Lummus	—	92	
<PTA>					
Amoco Indoprakasa	250,000	Amoco	—	93/94	
SK Petrochemi	200,000	—	—	S	
Urumqi General Petrochem.	75,000	ICI	Foster Wheler/ Sinopec	96	
ICI/Saha Union	350,000	—	John Brown	94	
<MTBE>					
Global Octanes	500,000	Houdry Catofin	Kellogg	92	
Statoil Petrochem.	49,000	Snamprogetti	—	S	
Saudi European Petrochem.	700,000	Unipol	John Brown/ Snamprogetti	93	
Mobil/Chemvest	800,000	—	—	S	
Trintoc	38,000	—	—	94	
Qator Fuel	500,000	UOP	Fluor Daniel	P	
Iban Zahr	700,000	—	Snamprogetti	93	
Iban Sina	700,000(X)	UOP	Fluor Daniel	93	
DEA Mineroloel	65,600	DEA Mineroloel	Edeleanu	92	
Kerr-McGee Refining	70,000	UOP	—	92	
Markwest	66,000	—	John Brown	92	
Bharat Petroleum	25,000	Snamprogetti	Snamprogetti	93	
Texaco Chemical	582,000(X)	—	Kellogg	P	
Oxychem	80,000	Arco	—	92	

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Dyno Industrier	—	—	Blow Moulding Plastics	93	
Ferro/Sinar Mas	10,000	—	Ceramic Frits&Glazes	92	
Tarragona Quimica	(X)	—	PP(Compounding)	92	
Poliderivados	10,000	—	PP(Film)	91.4/4	
Azdel	10,000	—	Thermoplastic Composite	92/93	
Fitesa	9,000	—	PP Fibres	91.4/4	
Advanced Elastomer Systems	(X)	—	Thermoplastic Elastomer	—	
Allied-Signal	19,000	—	Polyester Fibres	93.4/4	
Sasol Industries/Industrial Dev	36,000	Courtaulds	Acrylic Fibres	93.2/4	
DSM Resins/Beijing Red Lion	—	—	Powder Coating Rsins	—	
Dow Corning	(X)	—	Silicone Intermediates	95	
Dupont	—	—	Tynex Nylon Monofilament	92.2/4	
Eka Nobel	—	Eka Nobel	Colloidal Silica	—	
PQ Australia	30,000	—	Sodium Silicate	—	
Akzo-PQ Silica/Eka Nobel/LIOF	—	Eka Nobel/PQ/Akzo	Special detergent-grade disilicates	93.1/4	
Laporte	200,000	—	Activated earth base material	92.2/4	
Atochem	6,000	Mitsubishi Kasei	Sunprene thermoplastic	93.3/4	
Dow Corning	100%(X)	Dow Corning	Silicone Intermediates	—	
SKI	220,000(X)	—	Polyester Chip	92.3/4	
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Samsung BP Chemicals	150,000	—	VAM	93	
Penwest	—	—	Microcrystalline Cellulose	92.2/4	
Sarhad Development Authority	—	—	Soda Ash	—	
Taiwan Prosperity Chemical	135,000	Kellogg	Cumene	93	
Union Carbide	22,700	—	Triton, Speciality Surfactants	93.2/4	
DKV	32,000(X)	—	Maleic Anhydride	96	가
	60,000	—	Oxo-Alcohols		
	50,000	—	Acrylic Acid/Esters		
Miles	(X)	—	Nimodipine	94.1/4	
Agape Chemical	20,000	Davy	Natural Detergent Alcohols	93.4/4	
China(Liaoyang)	26,000	—	Carbon Disulphide	94	
Huangmailing Phosphate	280,000	Monsanto	Sulphuric Acid	95	
IG Petrochemical	45,000	—	Phthalic Anhydride	92.1/4	
Indoberlian Buana Perkasa	2,000	—	Maleic Anhydride	—	
	30,000	—	Phthalic Anhydride	—	
Jingxiang Phosphate Chemical	560,000	Grande Paroisse	Triple Superphosphate	95	
	560,000	Monsanto	Sulphuric Acid		
Nutra Sweet/Ajinomoto	—	—	Aspartame	93	
Oriental Chemical/Sumitomo/C Itoh	—	Sumitomo Chemical	High-Purity Sulphuric Acid	92.3/4	
Sentrachem	—	—	High-Purity Hydrogen Peroxide		
Dupont	—	—	2-Ethyl Hexanol	—	
	32,000	—	HFC 134a	—	
	10,000	—	HFC 134a/HCFC 124	93	
EF Houghton	10,000	Prodotti Bilckimica	Speciality Chemicals	—	

IGB/Kuala Lumpur Kogyo	50,000	—	Fatty Acid	92.1/4	가
Nuvo Ufinsky	300,000	Stratco/Monsanto	Sulphuric acid alkylate	93.4/4	
Amoco Chemical Belgium	—	—	Isophthalic Acid	—	
DSM Andeno	100%(X)	—	D(-)-P-hydroxypheny- lglycine amino acid	—	
Indo-Phil Textile Mills	5,000	—	Hydrogen Peroxide	93.2/4	
Amoco Chemical	(X)	—	Isophthalic Acid	92.2/4	
	(X)	—	Isophthalic Acid	92.4/4	
China Nat'l Chemical	321,000	—	Phosphoric Acid	92.4/4	
Dupont	110,000	—	Adipic Acid	—	
Interox	50,000	—	Hydrogen Peroxide	94	
Israel Chemical/Haifa	—	—	Potassium Nitrate	—	
Syria Nat'l Chemical	200,000	—	Phosphoric Acid	—	
Rhône-Poulenc	600,000(X)	—	Soda Ash	—	
China	2.5M	—	Phosphate Ore	93.4/4	
	800,000	—	Sulphuric Acid	(Phase)	
	300,000	—	Phosphoric Acid		
	800,000	—	Calcium Phosphate		
Degussa	24,000	—	Acrolein	92.4/4	
	16,000(X)	—	Methionine		
Hindustan Organic Chemicals	30,000	—	Caustic Soda	—	
	29,700	—	Chlorine	—	
Adwan Chemical Industries	20,000	Hoechst	Sodium Silicate Lumps	92.2/4	
	10,000	Alcan Chemical	Sodium Silicate Solutions		
	5,000	Freeman Process	Sodium Aluminate		
LaRoche Chemicals	50%(X)	—	Alumina	92.4/4	
Air Products	3,300(X)	—	Hydrogen		
Dupont	(X)	—	Chromium dioxide	92.1/4	
Dupont/Shanghai	—	—	Londox Rice Herbicide	92.1/4	
India Gammachim	50,000	—	Titanium Dioxide	—	
Ashland Chemical	40,800(X, T)	—	Maleic Anhydride	93.2/4	
Industries Chimiques du Senegal	100,000	—	Phosphoric Acid	—	
Lonza	—	—	diketene & derivs	93.2/4	
Dead Sea Periclase/Tateho	13,000	—	Magnesium Oxide	93.1/4	
Hüls	—	—	Vestagon B 1530	—	
PQ Australia	20,000	—	Detergent-grade Zeolite	—	
PQ Corp./Aekyung Group	—	—	Detergent-grade Zeolite	93.1/4	
Jordan Phosphate Mines/SPIC	208,000	—	Phosphoric Acid	—	
Rhodia	—	—	Acetic Acid	—	
Bayer	—	—	Metalic base coatings	—	
Courtaulds Acetate	20~30%(X)	—	Cellulose Acetate Flake	93.1/4	
ICI	(Pilot)	ICI	HFC 32	92	
Rotem Fertilisers	55,000	—	Phosphoric Salts	—	
Sopar Chemie	20,000	—	Phthalic Anhydride	94	
Australia	530,000	—	Caustic Soda	—	
Madras Fertilisers/Tamil	861,000	—	Nitrophosphate/Cakium	—	
BP Chemicals/Partners	100,000	BP Chemicals	Acetic Acid	—	
Dead Sea Bromine	200,000(X)	—	Bromine	97	