

<

>

“

”

가

25%

75%

94 3

95 5

95 7

30%

, 95

94 2

1

, 94 5 2

, 6 24

가

가

가

가

가

74 5

가

75 3

AGRICO

77 8

5

80 12

1

90 7

AGRICO

25%

92 4

2000

가

93

, 77

85

117

, 86~93

349

94

98

455

455

94~98

77

Mitsui Toatsu Total- Recycle C-Improved Process

2

1000 , 33

66

93

92

9%

51 4743

【 1】

(1994,) (: M/T)

88 60

		1/4	2/4	3/4	4/4	
		149,010	140,550	144,540	86,790	520,890
		312,442	337,582	311,457	268,519	1,210,000
	15-15-15	50,000	-	-	-	50,000
	9-25-25	110,532	124,462	74,197	156,939	466,130
	10-26-21	76,000	20,000	-	-	96,000
	16-16-8	9,000	60,000	75,000	5,000	149,000
	16-20-0	50,000	103,000	102,000	82,000	337,000
	D.A.P	16,910	30,120	60,260	24,580	131,870
	M.O.P	33,095	1,775	6,665	2,465	44,000
		494,547	479,907	462,662	357,774	1,794,890
	가	88,200	89,180	88,920	51,940	318,240
		124,327	120,745	125,227	73,204	443,503
		245,700	221,900	251,300	224,700	943,600
		82,240	82,220	84,630	77,080	326,170
		29,730	36,910	39,810	39,510	145,960
		15,705	14,785	16,735	15,635	62,860
		6,310	6,510	6,830	6,650	26,300
		4,320	4,670	4,900	5,010	18,900
	D.N.T	15,660	15,320	16,420	15,600	63,000
	M.N.T	870	1,000	1,130	1,190	4,190
	Toluidine	-	-	-	130	130
		613,062	593,240	635,902	510,649	2,352,853
		1,107,609	1,073,147	1,098,564	868,420	4,147,743

【 2】

		가	
			Mitsui Sumitomo Chemical Beckland Uhde Plinke
	2 2		Techno Universe Monsanto Nissan Engineering Haldor Topsoe (LPG)
			Beckland Grandfield Jacobs Int. (NOx)
	DNT 2DNT MNT		Beckland Biazzi Biazzi Biazzi Eurotecnica DNT DNT MNT Toluidine

5915

가

89 55 9141 , 90 53 9318
, 91 52 6494 , 92 56
5472

Davy Powergas

2
115

21-17-17, 17-21-17,
20-20-0, 18-46-0(DAP), 16-20-0,
15-15-15, 16-16-8
15

가

3

(N) · (P) · 가 (K)

93 21-17-
17 92 33%
, 35 930

17-21-17 92 82.3% 가
6 493 , 10-22-14 92
93

9144 , 18-46-0 92
19.4% 14 534 ,
9-24-24 92

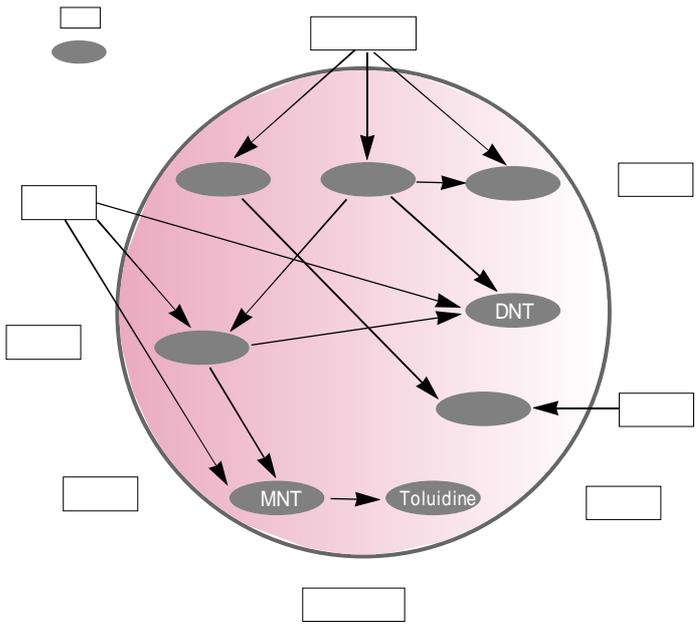
93 4000

16-16-8 92 67.6%
가 24 5863 , 16-20-0 4.3%
가 39 225 , 21-11-21

43.7% 7184 , 21-9-17
28.3% 가 6457 , 15-15-15
52.1% 14800 , 18-18-18
4.7% 9275

, 90 가 LPG
 Kellogg , 91 1 가 LPG
 , LPG 가 ,
 98% 가 99.8%
 60 , 가 86
 가
 Che- mico 87 Monsanto
 89 1000

【 】



가 . 가
 93% 1 Chemico 2 Plinke 10 3000
 , 83% 95%
 Chemico 1 5000
 () 가 79 10 Sumitomo
 1 2000 가 2 7000

34
 6
 가 1 88
 , 90 12 10 10
 가
 20
 1
 , 2 Chemico Uhde
 60%

【 3】 (1994) (: M/T, 100)

	1/4	2/4	3/4	4/4	
	65,000	47,000	80,000	89,000	281,000
21-17-17	170,000	180,000	90,000	240,000	680,000
17-21-17	95,000	-	-	25,000	120,000
	8,400	-	-	-	8,400
가	32,000	-	5,000	-	37,000
	370,400	227,000	175,000	354,000	1,126,400
	50,096	29,840	23,560	47,053	150,513
18-46-0	5,000	15,000	45,000	5,000	70,000
16-20-0	50,000	100,000	100,000	80,000	330,000
16-16-8	10,000	60,000	75,000	5,000	150,000
15-15-15	50,000	-	-	-	50,000
	115,000	175,000	220,000	90,000	600,000
	11,969	19,282	24,956	9,332	65,539
DAP	19,720	28,285	29,585	36,410	114,000
가	10,000	15,500	13,800	23,700	63,000
21-17-17	1,095	1,775	2,665	5,465	11,000
	100	500	930	670	2,200
	30,915	46,060	46,980	66,245	190,200
	5,131	7,430	7,622	10,525	30,708
	516,315	448,060	441,980	510,245	1,916,600
	67,196	56,516	56,138	66,910	246,760

가

가

Mitsui

Sumitomo

【 4】 (1994) (: M/T, 100)

	1/4	2/4	3/4	4/4	
가	28,790	30,560	32,120	32,730	124,200
	5,710	9,100	10,740	6,450	32,000
	21,590	22,170	21,840	24,400	90,000
	3,220	3,550	3,480	3,750	14,000
	4,200	4,680	4,250	5,070	18,200
	3,030	3,140	2,780	3,050	12,000
	4,750	4,860	4,730	4,960	19,300
	4,300	4,900	4,800	4,900	18,900
D.N.T	15,900	14,900	16,600	15,600	63,000
P.N.T	20	30	20	20	90
O.N.T	160	170	220	250	800
Toluidine	-	-	-	70	70
	91,670	98,060	101,580	101,250	392,560
	16,528	17,097	17,307	18,751	69,683
	1,500	2,000	2,000	1,500	7,000
	1,025	8,825	9,025	9,225	28,100
	159	177	159	175	670
P.N.T	300	300	300	300	1,200
O.N.T	300	400	450	450	1,600
	3,284	11,702	11,934	11,650	38,570
	753	1,575	1,676	1,611	5,615
	94,954	109,762	113,514	112,900	431,130
	17,281	18,672	18,983	20,362	75,298

Beckland

Uhde Plinke
2 2

Techno Universe Nissan
Engineering

Monsanto

Haldor Topsoe

Beckland

Grandfield, Jacobs

International

Barometric Condenser

Beckland 1DNT

Biazi 2DNT, MNT

Eurotecnica

가 가 1 17 4 , . 가 3 , 2 ,

가 가 ,

가

가

가가

96

가 290

1 5000

가 가

Eurotecnica

가

가

97 36%, 98 40.5%, 99

45%

가

250

97

1

가가

. CFC

가

, CFC

160

96

3

33

3

OLEUM

OLEUM

47

94

Biazzi

P-Toluidine

1500 ,

O-Toluidine

500

P-Toluidine

1500

600 ,

400 ,

400 ,

100

O-Toluidine

380

100 ,

150

30

39

가

가

4 6600 ,

가

13 5900

94

94

94

, 1/4

14 9010 ,

2/4 14 550 , 3/4 14 4540 , 4/4 8 6790 52 890 , 1/4 31
2442 , 2/4 33 7582 , 3/4 31 1457 , 4/4 26 8519 121

94 , 31 8240 , 가 44 3503 , 94 3600 ,
32 6170 , 14 5960 , 6 2860 , 2 6300 , 1 8900 ,
D.N.T 6 3000 , M.N.T 4190 , Toluidine 130 (4/4) 235 2853

94 , 2467 6000 191 6600
752 9800 43 1130
94 3220 5800 , 234 7730
가 . 21-17-17 . 17-21-17 . 가
1505 1300 , 112 6400 46.7%

18-46-0 . 16-20-0 . 16-16-8 . 15-15-15 가 60
, 655 3900 20.4%
DAP . 가 . 21-17-17 19 200 307
800 9.5%
가 . 가
. D.N.T . P.N.T . O.N.T . Toluidine 39 2560 , 696 8300 21.6%

. . . . P.N.T . O.N.T 3 8570 ,
56 1500 1.7%

가

가

UR
가가

21

< 1994/12/1 >