

Solvent

(Water)

12가

가

[illegible]

) ●60% , 50~59%, 30~39%, 20~29%, ○10~19%

: 1995 , : CRI

(olefine)

(olefine)

가

가	26	2000	94	91	20	7000	, 92	20	4000		93	7.4%		
				30			93		11.9%	가	.			
				91	9		, 92	10		, 93	13	, 94	21	가

, Iso-propyl Alcohol,
Acetate가

Ether

, MEK, MIBK

1,1,1-TCE, TCE, MC

가

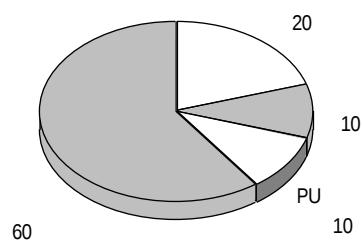
가 가 가 가 가

가

가 가 . 가
30% 80% .

()

(: %)



가

BTX,

Methylene Chloride 1,1,1-TCE

구분	2023년	2022년	2021년	2020년	2019년
매출액	51.3%	22.1%,	18.5%,	10.7%가	BTX가
영업이익	11.1%,	7.4%,	6.7%,	가	가
순이익	가 42%,	가 27.9%,	가 13.6%,	가	가 16%

MEK, MIBK,

Kerosin

EDC,

(: 1000M/T)		
가 /		
가 USSR	OXOCHIMIE	45 '90
	BASF	160
	HULS	100
	RUHRCHEMIE	40
	SHELL	15
	BASF	10
	NESTE OXO	35
	VEBCWBUNA	60
	VEBCWLEUNA	30
	STATE	55
	CSR CHEM	13
	STATE	33
	CHEMOPETROL	25
	STATE	10
	OMSK	40
	PERM	30
	SALACT	30
		731
NORTH	EASTMAN	91
	SHELL	91
	BASF	59
	CELANESE	113
	ETHYL	2
	VISTACHEM	3
	UCC	254
SOUTH	CLQUINE	24
	ELEKEIROS	7
	RHOALIA	6
	VICTOR SENCE	3
	QUIMICA OXAL	15 '91 가
		668
	LUCKY	20 '90
	MITSUB	25
	KYOWA	75
	CHLSSO	5
	TOHNEN	4
	UCC	3
	NOCIL	6
	INDU NISSAN	3
	JILIN	7
	DAQOMC	20
	SHANDONG	20
	NAN YA PLAS	20 '92 가
		209
		1,608

: CRI

가 가

,

,

가 가

,

가

가

,

가

2

THF , PVC / ,

가

가

Fulfural, Alcohol

가
가
가,
가,
가
PE Isoprofin , n- , POM

(: M/T)

	1990	1991	1992	1993	1994
	1,853	2,000	2,400	2,860	3,280
	639	690	820	970	1,110
	600	650	780	925	1,070
	600	650	780	925	1,070
	269	300	360	420	487
	350	400	480	570	653
	680	700	840	1,000	1,150
	205	220	260	320	380
	5,196	5,610	6,720	8,000	9,200

: CRI

()

(: M/T, %)

	18,000	90	,	90%
PU	600	3	PU	,
	400	2	,	E/A
©	1,000	5		,
©	20,000	100		

: CRI

MIBK 1 5000 MIBK 91 2 가
88 가 MIBK 가 34.7%, 16.2%, 14.5%
가 88 760 89 798 , 90 911 91
1000 가
91 MIBK 50% 가
가 750
MIBK가 가 가
MIBK , , , , , ,

1000 UCC 1000 1700
 LIY ,
 MIBK 56%, 7.7% 35%
 MIBK 200 ~ 300 , 50 ~ 60 , 50
 MEK MIBK
 MEK 6 5000
 Maruene, Tonen, Idemitsu 62%
 Shell,
 EPA
 MEK 가 , SKM,
 30 가 , , ,
 MEK 22%, 18%, 12%, 8%,
 6%, 13%, 16%
 n- 94
 n- OXO-Process
 OXO-Processor LG n- 가
 n- 92 LG
 , n-
 n- 가
 94 2 1521 1 4496 67%
 가 60%, 1 2912
 LG n-
 10 가 15 가 가
 가 n- 가 14 LG 10
 , n-
 Isopropyl Alcohol
 93 3 6000 92 3 1600 13% 94 4 2000
 93 16% LG 71% 29% Shell
 IPA 가 22% 가 17%, 5%, 7%, 10%,
 39%
 IPA 42%, Chemical Process 17%,
 9%, 7%, 가 7%, 18%
 IPA Chemical Processing 25%, 12%
 88 가 94

가 가
 94 2 1781 5 200
 94 2 85%
 4226 BP Chemical Celanese
 가 95

(: M/T, %)

1991	1992	1993	1994
10,000	15,000	50	12,000
11,992	4,942	58.8	9,375
21,992	19,942	9.3	21,375
18,000	18,000	20,000	11.1
6	863	719	16.7
18,006	18,863	4.8	20,719
		9.8	20,252

: CRI

IPA 가 (: 1000M/T, %)

1990	1995
가	가
792	576
91	72
15	18
898	666
129	114
가 70	30
50	36
18	18
-	-
267	198
250	140
215	160
190	145
130	130
151	142
936	717
66	56
3	2
2,170	1,639
	76
	2,390
	2,012
	84

: CRI

10%, PU 60%가 20%,
 10% 가 93 1 가
 92 15%
 PU
 12%

BP Chemical 住友商社, Chisso

5000

40% 가

6 4000

90% 90 1 2790 91 1 5000 , 93 2
 15%가 가 94 2 3000
 90%, 3%, 2%,
 5%
 94 3300 , 가 1300~1400

120 , 150 , 120
 E-serise P-serice E-serise가
 가 P-serice
 E-serice UCC, Dow, ICI 10 UCC
 가

MEK

(: M/T, %)

	1993	1994	1995	1996	1997	1998	'93~98
	0	- 0	- 0	- 50,000	- 50,000	- 50,000	-
	63,920	6.8 68,266	6.8 72,908	6.8 27,857	61.8 33,151	19.0 38,806	17.1 0.9
	63,920	6.8 68,266	6.8 72,908	6.8 77,857	6.8 83,151	6.8 88,806	6.8 6.8
	63,920	6.8 68,266	6.8 72,900	6.8 77,857	6.8 83,151	6.8 88,806	6.8 6.8
	0	- 0	- 0	- 0	- 0	- 0	-
	63,920	6.8 68,266	6.8 72,900	6.8 77,857	6.8 83,151	6.8 88,806	6.8 6.8
	(63,920)	- (68,266)	- (72,900)	- (27,857)	- (33,151)	- (38,806)	-

: CRI

MEK

	LICENCE TYPE	CONTRACTORS		
Arco	Non-		Mix-	
Chemical	exclusive		Butenes	
Technology				
Atochem			2-Butanol	Dehydrogenation Process*
Costain	Restricted	Costain	2-Butanol	- Sulfation
Enginneering		Engineering		
Petroquisa/	Know-How	ABB	2-Butanol	Dehydrogenation Process*
Oxitenon	and Basic	Lummus		
	Engineering	Crest		
Maruzen Oil			"	Dehydrogenation Process*
				- Sulfation
Rwe-Dea/	Non-		"	Dehydrogenation Process*
Edeleanu	Exclusive			- Sulfation
				- Direct Hydration
出光			"	Dehydrogenation Process*
				- Direct Hydration
Inst Francais	Non-		"	Liquid Phase Dehydrogenation
Du Petrole	Exclusive			Process

) * : Catalytic Vapor-Phase Dehydrogenation Process

91 7000 UCC

E-serise 1 4625 , 10047 3000 10%

P-serice DOW가

가 E-serise E-

serise 가 P-serice 94 2 9000

40%

BTX

(: 1,000M/T,)

		1992		1993		1994		1995		()
		CASE-1	CASE-2	CASE-1	CASE-2	CASE-1	CASE-2	CASE-1	CASE-2	
C P L M		104.5(95.0)	104.5(95.0)	99.0(90.0)	99.0(90.0)	88.0(80.0)	115.5(105.0)	88.0(80.0)	114.49(104.0)	1.10
S M		967.4(1,209.3)	975.5(1,219.4)	970.9(1,213.6)	972.8(1,216.0)	1,031.8(1,289.8)	1,068.0(1,335.0)	1,060.0(1,325.0)	1,082(1,353.0)	0.80
		49.6(74.0)	49.6(74.0)	57.0(85.0)	57.0(85.0)	67.0(100.0)	64.3(96.0)	67.0(100.0)	65.7(98.0)	0.67
M A		20.5(16.8)	20.5(16.8)	19.6(16.1)	19.6(16.1)	22.0(18.0)	20.1(16.5)	22.0(18.0)	26.8(22.0)	1.22
A B		41.8(116.0)	41.8(116.0)	42.1(117.0)	42.1(117.0)	57.6(160.0)	46.2(128.2)	57.6(160.0)	53.1(147.5)	0.36
		4.8(4.8)	4.8(4.8)	5.0(5.0)	5.0(5.0)	210.0(210.0)	210.0(210.0)	225.8(225.8)	225.8(225.8)	1.00
		1,188.6	1,196.7	1,193.6	1,195.5	1,476.4	1,524.1	1,520.3	1,568.2	
T D I		21.4(30.6)	21.4(30.6)	33.0(47.1)	33.0(47.1)	31.5(45.0)	32.9(47.0)	35.0(50.0)	41.3(59.0)	0.70
		248.2(248.2)	248.2(248.2)	266.8(266.8)	266.8(266.8)	300.0(300.0)	300.0(300.0)	322.5(322.5)	322.5(322.5)	1.00
		269.6	269.6	299.8	299.8	331.5	332.9	357.5	363.8	
P - X		665.9(584.1)	676.6(593.5)	736.8(646.3)	713.6(626.0)	900.6(790.0)	893.3(783.6)	1,128.6(990.0)	1,121.6(983.9)	1.14
O - X		178.0(156.1)	148.2(130.0)	221.2(194.0)	151.8(133.2)	182.4(160.0)	193.1(169.4)	182.4(160.0)	190.5(167.1)	1.14
		121.0(121.0)	121.0(121.0)	130.1(130.1)	130.1(130.1)	210.0(210.0)	210.0(210.0)	225.8(225.8)	225.8(225.8)	1.00
		964.8	945.8	1,088.0	995.6	1,293.0	1,296.4	1,536.8	1,537.9	
O-X P A		171.8(171.8)	182.0(182.0)	209.3(209.3)	214.0(214.0)	201.6(210.0)	207.3(215.9)	201.6(210.0)	218.4(227.5)	0.96
		171.8	182.0	209.3	214.0	201.6	207.3	201.6	218.4	
P-X T P A		786.1(1,123.0)	796.7(1,138.1)	867.3(1,239.0)	907.7(1,296.7)	952.0(1,360.0)	989.1(1,413.0)	1,302.0(1,860.0)	1,337.0(1,91.0)	0.70
		786.1	796.7	867.3	907.7	952.0	989.1	1,302.0	1,337.0	

) 1. CASE-1
()
: CRI

2. CASE-2

50%가 25%, 10%

90%

1 5000

95 1,1,1-TCE 10

旭硝子,
Dow Chemical, PPG

< 1995/7/15>