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2003 06 09

(21) 10-2001-0075300  
(22) 2001 11 30

(71) 2 272-1

(72) 555 105-909  
가 209-1602

945

756-4 305

2 103-102

(74)

:

(54)

(dimethylglutarate),

(dimethylsuccinate),  
(dibasic ester, DBE)  
10 90 %

(dimethyladipate),

; ; ; ;

(linearity)

1

- 1 SLP-H20 가 / 가 DBE-PMP (DBE:PMP = 30:70, ) , 가 .
- 2 CPD-0727LG 가 / 가 DBE-PGME (DBE: PGME = 30:70, ) , 가 .
- 3 SLP-H20 가 / 가 PGMEA-PGME (PGMEA:PG ME = 30:70, ) , 가 .
- 4 SLP-H20 가 / 가 PMP , .

(dimethylglutarate), (dimethylsuccinate), (dimethyladipate), (dibasic ester, DBE) , , .

(Flat Panel Display, FPD) (photo-lithography patterning tech nology) , , 가 , / 가 , 가 / (defocus), 가 (Edge Bead Remover, EBR) , (thinner) , , , .

가 , 가 , (scum) / (Edge Bead Remover, EBR) , , .

가 가 가

(linearity)

가 가

63-69563

4-42523

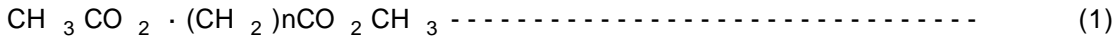
er acetate, PGMEA) (ethyl lactate, EL) 가 (n-butyl acetate, n-BA)  
(propyleneglycol monomethyl eth  
(ethyleneglycol monoethyl

2 3- 가 7-14656  
8867 7-12  
490 4,983,

가

가

ate), (dimethyl- succinate), (dimethyladipate), (dimethylglutar  
(dibasic ester, DBE)  
(dibasic ester, DBE)



(1) n=2, n=3, n=4

21 27 %, 12 20 %, 57 63 %

LD50( ) 5g/kg, 210, 56, 3.2cps, (20) 0.1mmHg

10 90 %, 10 50 %

(ethyleneglycol monomethylether acetate, EGMEA)

LD50( ) 5 g/kg

32, (25) 1.9 cps, 가 (25) 12.6mmHg, 121

mmHg), 126, 12mmHg), (142), (161, 0.9mmHg), (144, 2.0), (170, 1.3mmHg), 3.8mmHg),

가

ead Rinse, EBR) (Edge B

[ 1]

1 16 1 2, < 1>

[ 1] ( : %)

--	--	--	--

1	DBE = 100	10	DBE:EGMEA = 30:70
" 2	DBE:PMP = 20:80	" 11	DBE:MMP = 10:90
" 3	DBE:PMP = 30:70	" 12	DBE:PGME = 20:80
" 4	DBE:PMP = 70:30	" 13	DBE:PGME = 30:70
" 5	DBE:n-BA = 30:70	" 14	DBE:PGME = 40:60
" 6	DBE:n-BA = 70:30	" 15	DBE:DPM = 30:70
" 7	DBE:PGMEA = 30:70	" 16	DBE:EAA = 30:70
" 8	DBE:PGMEA = 50:50	1	PGMEA:PGME = 30:70
" 9	DBE:PGMEA = 70:30	" 2	PMP = 100

DBE : ( 57 63 %, 21 27 %, 12 20 % )

PMP :

n-BA :

PGMEA :

EGMEA :

MMP :

EAA :

PGME :

DPM :

EGMEA :

[ 2 ]

-H20( ) , 「 10 15」 CPD-0727LG( ) , 「 1 9」 SLP 1 2

SLP-H20( ) )

, 1cm x1cm 가 , 80 3

< 1> < 2>

[ 3 ] 가

[ 2 ] , 3 가 , < 2>

[ 2 ] 가

1	B	A	10	A	A
" 2	A	A	" 11	B	A
" 3	A	A	" 12	A	A
" 4	A	B	" 13	A	A
" 5	A	B	" 14	B	A
" 6	B	B	" 15	A	A
" 7	B	A	" 16	B	A
" 8	B	A	1	C	B
" 9	B	B	" 2	B	C

A: 가  
 B:  
 C: 가  
 A: ( )  
 B: ( , )  
 C: ( , )

< 2>

1 SLP-H20 가 / DBE-PMP (< 1> [ 3],  
 DBE:PMP = 30:70, ) 2 CPD-0727LG 가 /  
 DBE-PGME (< 1> [ 12], DBE:PGME = 30:70, )  
 3 SLP-H20 가 / PGMEA-PGME (< 1> [  
 1], PGMEA:PGME = 30:70, ) 4 SLP-H20 가 /  
 PMP (< 1> [ 2]) 1 3  
 2 4

1 2

가 ,

가 (defocu

s),

가

가

(57)

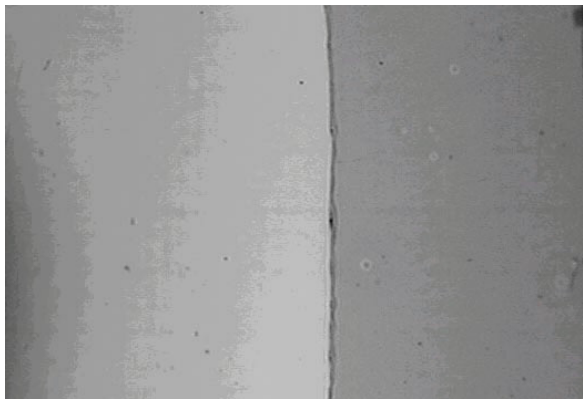
1.

ate), (dimethylglutarate), (dimethyl- succinate), (dimethyladip  
 (dibasic ester, DBE)

1 2. ,  
 10 90 %

2 3. ,  
 ;  
 ;  
 ;  
 ; 2- ;

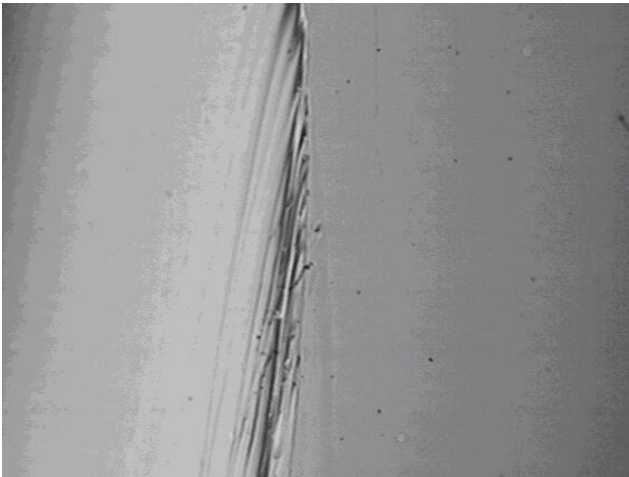
1



2



3



4

