



:EC 307
(MEK+EA+DMC+NPAC)

(Emergency Telephone Number)
032-574-1989 (24 hours)

1.

가.

: EC 307 (MEK + EA + DMC+NPAC)

UN : 1993

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: 032-574-1989

: 가 37 17 (가)

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H225
H304
H315
H319
H336
H361
H371
H372
H373

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P201
P202
P210
P233
P240
P241
P242 가
P243
P260 가 ()
P261 가
P264
P271 가
P280

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P301 + P310 ()
P302 + P352
P303 + P361 + P353 () /
P304 + P340 가
P305 + P351 + P338 . 가
P308 + P313
P312 ()
P314
P321
P331
P332 + P313
P337 + P313
P362 + P364
P370 + P378 ,

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P403 + P233 가
P403 + P235 가
P405 가

P501 ()

| | NFPA | | |
|----------------------|------|---|---|
| | | | |
| / ETHYL ACETATE | 1 | 3 | 0 |
| /Methyl Ethyl Ketone | 1 | 3 | 0 |
| / Dimethyl carbonate | 1 | 3 | 1 |
| / Propyl acetate | 1 | 3 | 0 |

[2017.7.20.] [2017-12 , 2017.7.20.,
] 5 ()
 4
 [2016.4.6] [2016-19 , 2016.4.6,
] < 1> 3.3
 / 2
 [2017.7.20.] [2017-12 , 2017.7.20.,] 5 ()
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3.

| | CAS No. | (W%) |
|--|----------|-------|
| | 141-78-6 | 19~24 |
| | 78-93-3 | 19~24 |
| | 616-38-6 | 22~27 |
| | 109-60-4 | 20~25 |

4.

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| | | ACGHI | |
|---------------------|---------------------------|---------------------------|---------------|
| Ethyl acetate | TWA 400ppm, | TWA 400ppm | |
| Methyl ethyl ketone | TWA 200ppm STEL 300ppm | TWA 200ppm STEL 300ppm | 2mg/L() MEK, |
| Dimethyl carbonate | | | |
| Propyl acetate | TWA 200ppm STEL 250ppm | TWA 200ppm STEL 250ppm | |

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| pH | |
| / | -84 |
| | 77 |

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| | -9 |
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| (,) | |
| / | MIN : 1.4%, MAX : 12% |
| | 80 g/L (Ethyl acetate) 223 g/L(MEK) 138 g/L (Dimethyl carbonate) 18900 mg/L 20 (Propyl acetate) |
| () | |
| | 93.2 mmHg (Ethyl acetate),90.6 mmHg(Methyl ethyl ketone) 73.86hPa(Dimethyl carbonate) 35.9 mmHg(Propyl acetate) |
| | 0.9003(Ethyl acetate) 0.8054(Methyl ethyl ketone) 1.1(Dimethyl carbonate) 0.882 (Propyl acetate) |
| N- / | 2.7 |
| | 427 |
| | |
| | 3.04(Ethyl acetate), 2.5(Methyl ethyl ketone) 3.1(Dimethyl carbontate) 3.5 (Propyl acetate) |
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11.

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PRODUCT :
- / LD50 > 5620 /LD50 > 2737(mg/kg)
- LD50 >13000 / LD50 8700 (mg/kg Rat)
PRODUCT :
- / LD50 > 18000 / LD50>6480(mg/kg)
- LD50 > 5000 / LD50> 17800 (mg/kg Rabbit)
(가) PRODUCT :
- / LD 50 > 100 / :
- : / :
() PRODUCT :
- : / LC50 > 32mg/l 4 hr mouse
- : LC50 > 140mg/l 4htr mouse / :
(/) PRODUCT :
- : :
- : / :
- : PRODUCT : 2 :
- : / :
- : / : /
- : PRODUCT : 2 :
- : 2/ :
- : / : OECD GHS category 2A >0
PRODUCT :
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PRODUCT :
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- : / / :<QSAR> OECE Toolbox
PRODUCT :
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· OSHA :
· NTP :
· IARC : 3
· EU CLP :
· ACGIH : A4
PRODUCT :
- / Mouse lymphoma cells
PRODUCT : 2
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(1) PRODUCT : 3()

() PRODUCT : 2
 - : 2 / 가 . 가 .
 PRODUCT : 1

12.

가. PRODUCT - : , :

- LC50=230 LC50=3220
 - : LC50 60mg/L 96hr

- EC50=717 EC50 > 5091
 - : EC50 91.5 mg/L 48hr

- EC50=1800~3200 EC50 > 500
 - : EC50 672 mg/L 72hr

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- : BOD 5 /COD 0.81 :
 - : :

- : 0.73 : 0.29
 - : log Kow 0.23 : log Kow 1.4

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- BCF : 30 :
 - : BDF:3.2 :

- 100% 28 day 89% 20 day
 - 90% 28day 62% 5 day

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- : Pseudokirchnerella subcapitata : NOEC72h =83.2 mg/L OECD TG 201, GLP

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14.

가. : 1993
: Flammable liquid, n.o.s (contains Ethyl acetate, Methyl ethyl ketone, Dimethyl carbonate ,Propyl acetate)
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: PG II
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가 가 :
: F-E
: S-D

15.

가.
- , : , , :6 , : 30),
(1 wt% , :12 , :6 6)
: , : (6)
- , (25%)
- : , :
- , , , : 4 1 (200L)
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가

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- - EU ()
 - F; R11 ,Xi; R36, R66, R67
 - EU ()
 - R11, R36, R66, R67
 - EU ()
 - S2 S9 S16 S26 S33
 - 2006/507/EC
 -
 - 689/2008/EC
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 - Designation, Reportable Quantities, and Notification
 - : :
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 - Emergency Planning and Notification
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 - Toxic Chemical Release Reporting - Community Right-to-Know
 - : :
 - :
 - Process Safety Management of Highly Hazardous Chemicals
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16.

가.

- ACGIH
 - ATSDR
 - American Chemical Society, Washington DC.
 - American Industrial Hygiene Association Journal 30, 470-476
 - Chemosphere 14 (10). 1589-1616.
 - EHC
 - EHCA
 - Ecotoxicol. Environ. Saf. 39, 136-146.
 - HSDB
 - IARC
 - IUCLID
 - Marine Biology 31, 305-310
 - Publication
 - RTECS
 - Study report
-

-
- Toxicology 4, 5-15
 - Transactions A. Fish. Soc. 110, 430-436.
 - Water Research 13, 627-630

. : 2019.12.01

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2010 5 20

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2019 12 1

(2016 -19) (2016.4.16)

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MSDS 가
가
MSDS