 KGB CHEMICAL	(MSDS)		KGB-006
			2019 7 8
			2019 7 8

1.

가. :
P C 306 (Perfect Cleane 306) (Toluene + Acetone)

.

, , , UV ,
, ,

. / /

가 37 17(가)

032-584-1989

2. .

가. . : : 2
/
2 : 2
- 1
: 3 () -
: 2 : 1


.

:



:

H225
H304

 KGB CHEMICAL	(MSDS)		KGB-006
			2019 7 8
			2019 7 8

H315

H336

H361

, , ,

-

P201

P202

P210

P233

P240

P241

P242 가

P243

P260(. . 가 . . .) ()

P261(. . 가 . . .)

P264

P271 가

P280(. . .) ()

P281

-

P301+P310 ()

P302+P352

P303+P361+P353 ()

/

P304+P340 가

P308+P313

P312 ()

P314

P321

P331

P332+P313

P362

P370+P378


, ,

-

P403+P233 가

P403+P235 가

P405

 KGB CHEMICAL	(MSDS)		KGB-006
			2019 7 8
			2019 7 8

NFPA : - 2, - 3, - 0

-

P501 () .

3.

/	CAS	(%)
/ Toluene / Benzene, methyl-	108-88-3	70~80
/ Acetone	67-64-1	20~30


4.

가 15 .

(20) .

가
(mouth-to-mouth) , (:pocket
mask)
가 가 가

(charcoal
slurry) , (saline cathartic,) (sorbitol, 35%)
(: 50~100g, :
1.0~1.5g/kg, 50g)

	(MSDS)		KGB-006
			2019 7 8
			2019 7 8

5.

()

가

가

(fog),

(rail car),

(flash back)


가 가

(vapor suppressing foam)

가

가

가

 KGB CHEMICAL	(MSDS)		KGB-006
			2019 7 8
			2019 7 8

6.

50~100 가 (,)

(upwind)

가 (, ,)

가 10ppm

10

[].

(sodium bicarbonate) (soda ash)/ (slaked lime) (蛭石, vermiculite), (乾土), (乾砂) 가

(foamed polyurethane), (foamed concrete) (cement powder)



KGB - 006

2019	7	8
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2019	7	8
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7.

가

가

(incompatible)

, 가

 KGB CHEMICAL	(MSDS)		KGB-006
			2019 7 8
			2019 7 8

8.

		ACGIH	
Toluene	TWA 50ppm STEL 150ppm	TWA 20ppm	2.5g/g crea
Acetone	TWA 500ppm STEL 750ppm	TWA 500ppm STEL 750ppm	50mg/L (Acetone,)

:
 /
 가 500ppm
 가 1250ppm
 (loose-fitting) /
 가 2500ppm
 /
 가 50000ppm
 / ,
 가 500000ppm 가
 (SCBA) 가 (SCBA) 가
 -
 - 가 ()
 :
 :
 ()
 :



2019	7	8
------	---	---

9.

58.08 ~ 92.14

10.

(flash back)

 KGB CHEMICAL	(MSDS)		KGB-006
			2019 7 8
			2019 7 8

- : (in vivo) ()
- : (in vivo) ()
- : (in vivo) (SCE , ,)
- : (in vivo) (, ,)
- : (in vivo) ()
- : (in vitro) (Ames , S. typhimurium)
- : (in vitro) (Ames , E. coli)
- : (in vitro) (, V79)
- : (in vitro) (, CHO)
- : (in vitro) (, ,)
- : (in vitro) (SCE , CHO)
- : (in vitro) (SCE ,)
- : (in vitro) (mouse lymphoma)
- : IARC :

Group 3

: 2

Acetone : (11000ppm (20mg/L)) ,
(6600ppm(15.6mg/L)) ,
가 (EHC, 207(1998))

Toluene :

-1 : Toluene : 3() 6.08 mg/L
Rats 3

Acetone : , , , ,


, , , .

- :Toluene:600ppm

, , ,

: Toluene : 1 /
human

Acetone : 0.426mm2/s ()

 KGB CHEMICAL	(MSDS)		KGB-006
			2019 7 8
			2019 7 8

12.


- (LC50) : Goldfish, 57.68ppm/96hr()
- (LC50) : Carassius auratus, 13mg/L/96hr
- (LC50) : Lepomis macrochirus, 13mg/L/96hr
- (LC50) : Oncorhynchus mykiss, 5.8mg/L/96hr
- (LC50) : Oncorhynchus kisutch, 5.5mg/L/96hr
- (LC50) : Pimephales promelas, 18mg/L/96hr
- (LC50) : Oryzias latipes, 25mg/L/96hr
- (LC50) : Cyprinodon variegatus: 13mg/L/96hr
- (LC50) : Poecilia reticulata: 59.3mg/L/96hr
- (LC50) : Daphnia magna, 313ppm/48hr()
- (ErC50) : Selenastrum capricornutum, 29mg/L/72hr

—

. Koc >= 34

- , .
- BOD : 80% (20)
3 24 (OH)

BCF=13, 90()

 KGB CHEMICAL	(MSDS)		KGB-006
			2019 7 8
			2019 7 8

13

(rotary kiln 820~1,600 , fluidized bed 450~980) .
가 가 가

()

14

: 1294 / 1090

: 3

: 2

:

가

가

: F-E

: S-D

15.

:

(: 6)

(: 12)

: , Toluene 85%

: 4 1

: ()

-

:

 KGB CHEMICAL	(MSDS)		KGB-006
			2019 7 8
			2019 7 8

- (OSHA)
- (CERCLA) 453.599 kg 1000 lb
- (EPCRA 302)
- (EPCRA 304)
- (EPCRA 313)
- ()
- ()
- ()
- EU ()F;R11Repr.Cat.3;R63Xn;R48/20-65Xi;R36,38 R66,67
- EU () R11, R36,R38, R48/20-65, R63, R66, R67
- EU () S2,,S9, S16, S26, S36/37, S46, S62

16.

:

HSDB(Hazardous Substances Data Bank) : <http://toxnet.nlm.nih.gov>

The Chemical Database : <http://ull.chemistry.uakron.edu/erd/>

ICSC(International Chemical Safety Cards) :

<http://www.cdc.gov/niosh/ipcsneng/neng0000.html>

(NCIS) : <http://ncis.nier.go.kr/ncis/>

2011-13 . (2011. 3. 2)
:2019.07.08

0-00 : 2000.01.03

0-01 : 2006.09.0 4 ()

0-02 : 2008.01.04 ()

0-03 : 2008.02.25 (2006-36 ,)

0-04 : 2010. 05.20

2. , : , 가

9. , : , , , ,

11. : , ,

12. : ,

14. : ,

0-05: 2013.06.05 (4. , 5.)

0-06 :2013.09.25 ()

0-07 : 2014.01.02 ()

0-08 : 2014.08.21 (9. ,)

0-09 : 2014.10.27 (9. ,)

0-10 : 2018.07.08 (3.)