

 KGB CHEMICAL	(MSDS)		KGB-004
			2016 6 21
			2018 1 17

1.

가. :
P C 300 (Perfect Cleane 300) (TO + XY)

.

, , , UV ,
, ,

. / /

가 37 17(가)

032-584-1989

2.

가. : : 2
/
2 : 2
- 1
: 3 () -
: 2 : 1

.

:



:

H225
H304

 KGB CHEMICAL	(MSDS)		KGB-004
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			2018 1 17

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 .



2018	1	17
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—

3.

4.

15

(20)

mask)

가 가


slurry)

(saline cathartic,)

(sorbitol, 35%)

: 50~100g,

1.0~1.5g/kg,

	(MSDS)		KGB-004
			2016 6 21

5.

()

가

가

(fog),

(rail car),

(flash back)


가 가

(vapor suppressing foam)

가

가

가

 KGB CHEMICAL	(MSDS)		KGB-004
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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 CHEMICAL	(MSDS)		KGB-004
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8.

		ACGIH	
Toluene	TWA 50ppm 188mg/m3 STEL 150ppm 560mg/m3	TWA 50ppm	
Xylene	TWA 100ppm 434mg/m3 STEL 150ppm 651mg/m3	TWA 100ppm 434mg/m3 STEL 150ppm 651mg/m3	Methylhippuric acids : 1.5 g/g ()

 KGB CHEMICAL	(MSDS)		KGB-004
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9.


,
 2.14ppm
 pH
 / -95 ~ 7
 81 ~ 111
 -18 ~ 4
 (,)
 / 7.1/1.1 
 29.3 hPa at 20 (IUCLID)
 28.4 mmHg at 25 (TOXNET)
 0.0526 g/100 Mℓ (25)
 : TOXNET. U.S. National Library of Medicine
 2.9 ~ 3.1 (=1)
 0.8715
 n- / 2.73 ~ 3.4
 260 ~ 480
 0.56 cP ~ 0.98cP
 84.18 ~ 92.14

10.

가 :

가 가 : ,
/ , ,

(flash back)

 KGB CHEMICAL	(MSDS)		KGB-004
			2016 6 21

- : (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

-1 : 3

- : 2

, , ,

: 1

 KGB CHEMICAL	(MSDS)		KGB-004
			2016 6 21

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

—

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

BCF=13, 90()

 KGB CHEMICAL	(MSDS)		KGB-004
			2016 6 21

13

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

()

14

: 1294 / 1161

: 3

: 2

:

가

가

: F-E

: S-D

15.

:

(: 6)

(: 12)

: .

: 4 1

: ()

- :

 KGB CHEMICAL	(MSDS)		KGB-004
			2016 6 21

- (OSHA)
- (CERCLA) 453.599 kg 1000 lb
- (EPCRA 302)
- (EPCRA 304)
- (EPCRA 313)
- ()
- ()
- ()
- EU () F; R11 Repr.Cat.3; R63 Xn; R48/20-65 Xi; R38 R67
- EU () R11, R38, R48/20, R63, R65, R67
- EU () S2, 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)
:2016.06.21

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 : 2018.01.17 (3.)