

: [Triethylamine]

CAS NO	KE NO	UN NO	EC NO
121-44-8	KE-10472	1296	204-469-4

1.

가. : [Triethylamine]

: ( ) ((DIETHYLAMINO)ETHANE);  
N,N- (N,N-DIETHYL ETHANAMINE);  
, N,N- -(ETHANAMINE, N,N-DIETHYL-); TEA;

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: , 가, ,

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: ( )

: 133 53 ( 635-1)

: : 031 - 495 - 4057 ( , 08:30~17:30)

2. ·

가. · :

2

4

3

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H225  
H302  
H311  
H314  
H318

P210  
P233  
P240  
P241  
P242 가  
P243  
P260 ( 가 )  
P264  
P270  
P280 ( )

P310 ( )  
P312 ( )  
P321 (Section 4. )  
P330  
P363  
P301+P312 ( )  
P301+P330+P331  
P302+P352  
P303+P361+P353 ( ) /  
P304+P340 가  
P305+P351+P338 가  
P370+P378 (Section 5. ) ( )  
P361+P364

P405 가  
P403+P235 가

P501

(NFPA)

3.  
3.  
0.

3.

: Triethylamine  
:( ) ((DIETHYLAMINO)ETHANE);  
: 121-44-8  
: 97-100 %

: Water  
: 7732-18-5  
: 3-0 %

4.

가.

15

15

( )

가

5.

가.

( )

:

가 가

가

가

/

, ,  
, / ,

(flash back)

가

가

가

6.

가.

가

( )

7.

가. :가

가  
가

가  
MSDS/

가

가

가

/

(...)

가

:

가

가

8.

가. ACGIH : TWA 1 ppm, STEL 3 ppm

: TWA - 2ppm STEL - 4ppm

:가 , , ,

가

가

( , )  
( , , )

가

: ( ), ( )

가

가

( )

가

가

9.

가.

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:

:

: 1.12mg/m<sup>3</sup>

pH : 12.5

/ : -115

: 89

: -11

: 5.6

( , ):

/ : 8 / 1.2 %

: 7.2 kPa (20 )

: 17 g/100M $\emptyset$  (20 (1), (가 : , , , )

: 3.5

. : 0.7  
 .n- / : 1.45  
 . : 230  
 . :  
 . :  
 . : 101.19

10.

가. 가 :

, , 가

가 가 /

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 , /

(flash back)

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. : 가 가

11.

가. 가 : : .

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 , : ./

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: LD50 730 mg/kg : Rat (OECD TG 401, )

: LD50 580 mg/kg : Rabbit (OECD TG 402, )

: LC50 3496 ppm 1 hr : Rat ( / LC501hr=3496 ppmLD504hr 7.64 mg/L , OECD TG

403, EPAOTS

: / , , , (OECD

TG 404)

:

:

: Mouse Ear Swelling Test ,  
 Alternative Dermal Sensitization Test : Mouse Ear Swelling Test (ECHA)

Development and Validation of an

:

IARC :

OSHA :

ACGIH : A4

NTP :

EU CLP :

:

(ECHA)

, NOAEL=40 mg/kg bw/day ( : 75-50-3 (trimethylamine)) (OECD TG 422)

NOAEL( )=135 mg/kg bw/day, NOAEL( / )=45 mg/kg bw/day ( : 102-82-9 (Tri-n-butylamine)) (OECD TG 414, GLP)

NOAEL( )=200 mg/kg bw/day, NOAEL( / )=40 mg/kg bw/day ( : 75-50-3 (trimethylamine)) (OECD TG 422, OPPTS 870.3650) (ECHA)

(1 ):

(ICSC)

( ):

NOAEC=1,020mg/m<sup>3</sup> air,

NOAEC=103.3 mg/m<sup>3</sup> , LOAEC=1,020mg/m<sup>3</sup> air OECD TG 413 (ECHA)

12.

가. : : LC50 24 mg/ 96 hr *Oryzias latipes*(OECD Guideline 203)

: LC50 17 mg/ 48 hr *Ceriodaphnia dubia*(NOEC=12mg/L 48h (EPA/600/4-90/027, GLP))

: EC50 8 mg/ 72 hr (*Pseudokirchnerella subcapitata*, OECD TG 201)

: : 1.45 log Kow (pH = 13)

: : B 100 mg/L , *Daphnia magna* : EC5021d=38 mg/L, NOEC21d=11 mg/L, OECD TG 211, , *Daphnia magna*: NOEC(21d)=5mg/L (EU Directive XI/681/86, GLP) (ECHA)

13.

가. : 2

가 가

( )

14.

가. : 1296

(TRIETHYLAMINE)

: 3

:

가 : S-C 가 : F-E

15.

가. : ( : 6 )

(PSM)

:

: 4 1 (200 ) 2

: [ 1 ]  
( ) .

:  
 : (OSHA ):

(CERCLA ) : 2267.995 kg 5000 lb

(EPCRA 302 ):

(EPCRA 304 ):

(EPCRA 313 ):

( ):

( ):

( ):

EU ( ) : Flam. Liq. 2 Acute Tox. 4\* Acute Tox. 4\*Acute Tox. 4\*Skin Corr. 1A

EU ( ) : H225 H332 H312 H302 H314

EU ( ):

16.

가. MSDS

: 2006-11-15

: 7  
 : 2019-06-11

MSDS가  
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MSDS

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MSDS



