

: 2021 - 07 - 29

MSDS : AA04815 - 0000000001

### (MSDS)

## 1.

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: 310 ( )

: 02 - 2008 - 2324

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## 2.

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H225  
H302  
H318  
H335  
H336  
H351

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P201  
P202  
P210 , , ,  
P233  
P240  
P241 ( . . )  
P242 가  
P243  
P261 .  
P264 ( )  
P270 ,  
P271 가  
P280 . . . ( )

-  
P301+P312 :  
P303+P361+P353 ( ) : /  
P304+P340 : 가  
P305+P351+P338 : .가  
P308+P313 :  
P310 /  
P312 /  
P330  
P370+P378 : CO2, ( )

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P403+P233 가



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- CO2

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- (flash back) .

- (flash back) .





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9.

pH	
/	- 108.44
	65
	- 21.2
( , )	
/	11.8 - 2 %
	162 mmHg
	30
	2.5
	0.8833
n - /	0.46
	321
	0.456mm <sup>2</sup> /s
	72.1

10.

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11.

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LD50 1650 mg/kg : Rat (bw / Rat / guide line : Conducted according to a published procedure (Hagan, E.C. (1959). Acute Toxicity: Appraisal of the Safety of Chemicals in Foods, Drugs and Cosmetics, pp. 17 - 25.)

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LD50 > 2000 mg/kg bw (rat)

( :가 )

( : )

LC50(6h) > 14.7 mg/L air (nominal) (rat)

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/ ,  
/ ,

PIID:1.93

(mouse)

ACGIH: Group A3 (ACGIH)

A3 ( )

2 ( )

2 ( )

: Group 2 ( )

EU CLP: Group 2 (EU CLP)

In vitro - (Bacterial Reverse Mutation Test), In vivo - (Micronucleus Assay)

, (NOAEL=9000 ppm (nominal)) (rat)

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가  
NOAEL=1 000 mg/L drinking water  
5000ppm 가  
/ 가  
NOAEC=1800ppm

12.

가.

LC50= 2160mg/L(96hr,Pimephales promelas)

LC50=3485mg/L(48hr,Daphnia magna)

logKow= 0.46

BOD=39%

Koc= 18.33 - 23.32

Pimephales promelas : NOEC33d=216 mg/L

13.

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14.

- 가. (UN No.) : 2056
- . : TETRAHYDROFURAN
- . : 3
- . : II
- . :
- . 가 가 :
- . : F - E
- . : S - D

- (ADR)
- . Tunnel restriction code : D/E

- (IMDG)
- . :

- Air transport(IATA)
- . : 2056
- . : TETRAHYDROFURAN
- . : 3
- . : II

15.

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- 4 1 ( ) (400L)
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- 1907/2006/EC
- EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances, EU -

- REACH (1907/2006) - List of Pre - registered Substances, EU - REACH (1907/2006) - List of Registered Substances, EU - REACH (1907/2006) - List of Registered Intermediates, EU - REACH (1907/2006) - Community Rolling Action Plan (CoRAP) List of Substances, EU - REACH (1907/2006) - Registered Substances Considered not to be PBT/vPvB, EU - REACH (1907/2006) - Registered Substances PBT/vPvB Assessment Does Not Apply, EU - REACH (1907/2006) - PACT - RMOA List of Substances
- United Nations Environment Program Montreal Protocol on Substances that Deplete the Ozone Layer
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- United Nations Environment Program Persistent Organic Pollutants (POPs) Intergovernmental Negotiating Committee (INC)
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- California Safe Drinking Water and Toxic Enforcement Act
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- U.S. Department of Transportation, 49 CFR 172.101 Hazardous Materials Table, Appendix A Table 1
- Hazardous Substances Other Than Radionuclides
- U.S. - DOT (Department of Transportation) - Hazardous Substances and Reportable Quantities (Appendix A - Table 1)
- U.S. Designation, Reportable Quantities, and Notification
- U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities
- U.S. Emergency Planning and Notification
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- U.S. Federal Insecticide, Fungicide and Rodenticide Act
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- U.S. Integrated Risk Information System
- U.S. - EPA - IRIS Carcinogenicity Assessment
- U.S. Toxic Chemical Release Reporting - Community Right - to - Know
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- U.S. Toxic Substances Control Act
- Inventory - United States - Section 8(b) Inventory (TSCA), U.S. - TSCA (Toxic Substances Control Act) - Section 4 - Chemical Test Rules (40 CFR 799), U.S. - TSCA (Toxic Substances Control Act) - Section 8(a) - PAIR - Reporting List, U.S. - TSCA (Toxic Substances Control Act) - Section 8(d) - 716.120(d) - Health and Safety Reporting - Members of Categories, U.S. - TSCA (Toxic Substances Control Act) - Section 4 - Chemicals Whose Testing Requirements Have Sunset

16.

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- CERI, ICSC
- ECHA
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: 2020 - 12 - 18

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: 2021 - 07 - 29

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