

H226

H315
H319
H335
H412

[]:

P210 / / / - .
P260 / / .
P261 / /가 / / / .
P262 , , .
P264 .
P271 가 .
P273 .
P280 / / / .

[]:

P301+310 : / .
P302+352 : .
P303+361+353 () : .
 / .
P304+312 : / .
P305+351+338 가 : . 가 .

P321 () .
P331 .
P337+313 : / .
P340 가 .
P362 .
P370 : .
P378 , , , .

[]:

P403+233 가 .
P405 가 .

[]:

P501 () .

2.3. .
 PBT (,) vPvB (,) .

3.

/	%	GHS	
xylene CAS No: 0001330-20-7	20-30	3; H226 - 4;H312 - 4;H332 / 2;H315 / 2A;H319 -1 ;H336 - 1;H372	[1][2]
Titanium dioxide CAS No: 0013463-67-7	5-10		[1][2]
Solvent naphtha (petroleum), light aromatic CAS No: 0064742-95-6	2.5-5	1;H304	[1]

n-Butyl acetate CAS No: 0000123-86-4	2.5-5	3; H226 -1 ;H336	[1][2]
Ethylbenzene CAS No: 0000100-41-4	1-2.5	2;H225 - 4;H332 - 3;H373 1;H304 / 2;H315 / 2;H319 -1 ;H335	[1][2]
1-Methoxy-2-propyl acetate CAS No: 0000108-65-6	1-2.5	3; H226	[1]
n-Butanol CAS No: 0000071-36-3	1-2.5	3; H226 - 4;H302 -1 ;H335 / 2;H315 / 1;H318 -1 ;H336	[1][2]
1-methyl-2-pyrrolidone CAS No: 0000872-50-4	<1	1B;H360D / 2;H319 -1 ;H335 / 2;H315	[1]
Methyl ethyl ketoxime CAS No: 0000096-29-7	<1	2;H351 - 4;H312 / 1;H318 1;H317	[1]
	40-50	---	---

- 1)
2)가
3) PBTvPvB
16

4.

4.1.

가

가

4.2.가/

4.3.

5. ,

5.1.

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Note; 가 .

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5.2.

가 :
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5.3.

가 .
가 .

6.

6.1.

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가 가 , 가
가 가 .

6.2.

가 .

6.3.

.8 .
 , , 가 . (13 .)
가 .
가 .
 , 가 , 가 .

7.

7.1.

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가 .
 , 가 (LEL) (OEL)
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가
가
(LEL) (OEL)

7.2. ()
8
가 , 1 가

7.3. Specific end use(s)
가
, 가 3
Hot surfaces, Sparks,
가 (60%)

8.

8.1.	(OEL)	(ACGIH)			
		(ACGIH)			
		ppm	mg/m ³	ppm	mg/m ³
Calcium carbonate					10
Ethylbenzene		125	545	100	435
n-Butanol				C50	C150
n-Butyl acetate		200	950	150	710

10

434

(Cat 3)

$$\begin{pmatrix} \cdot & \cdot \\ \cdot & \cdot \end{pmatrix} = \mathbf{1}$$

/

: 1.4 (n-Butanol)

: 6.6 (xylene)

(Pa)

1.23

n- / (Log Kow)

9.2.

10.

10.1.

10.2.

.(Section 7)

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10.3.

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10.4.

.(7 .)

10.5.

10.6.

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11.

(OEL)

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	LD50, mg/kg	LD50, mg/kg	LD50, mg/L/4hr	/ LD50, mg/L/4hr
1-Methoxy-2-propyl acetate - (108-65-6)	8,532.00,	5,000.00,		
1-methyl-2-pyrrolidone - (872-50-4)	3,914.00,	8,000.00,		
Ethylbenzene - (100-41-4)	3,500.00,	15,433.00,	17.20,	
Methyl ethyl ketoxime - (96-29-7)	930.00,	2,000.00,	20.00,	
n-Butanol - (71-36-3)	2,292.00,	3,430.00,		
n-Butyl acetate - (123-86-4)	10,700.00,	17,600.00,		
Solvent naphtha (petroleum), light aromatic - (64742-95-6)	6,800.00,	3,400.00,		
Titanium dioxide - (13463-67-7)	10,000.00,	10,000.00,		6.82,
xylene - (1330-20-7)	4,299.00,	1,548.00,		20.00,

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/	2	.
/	2	
(1)	3	.
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12.

12.1.

Dangerous Preparations Directive 1999/45/EC

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	96 hr LC50 mg/l ,	49 hr EC50 mg/l ,	ErC50 mg/l ,
xylene - (1330-20-7)	3.30, Oncorhynchus mykiss	8.50, Palaemonetes pugio	100.00 (72 hr), Chlorococcales
Titanium dioxide - (13463-67-7)	1,000.00, Fundulus heteroclitus	5.50, Daphnia magna	5.83 (72 hr), Pseudokirchneriella subcapitata
Solvent naphtha (petroleum), light aromatic - (64742-95-6)	9.22, Oncorhynchus mykiss	6.14, Daphnia magna	19.00 (72 hr), Selenastrum capricornutum

n-Butyl acetate - (123-86-4)	18.00, Pimephales promelas	32.00, Artemia salina	674.70 (72 hr), Scenedesmus subspicatus
Ethylbenzene - (100-41-4)	4.20, Oncorhynchus mykiss	2.93, Daphnia magna	3.60 (96 hr), Pseudokirchneriella subcapitata
1-Methoxy-2-propyl acetate - (108-65-6)	100.00, Salmo gairdneri	500.00, Daphnia magna	
n-Butanol - (71-36-3)	1,376.00, Pimephales promelas	1,328.00, Daphnia magna	500.00 (96 hr), Scenedesmus subspicatus
1-methyl-2-pyrrolidone - (872-50-4)	500.00, Leuciscus idus	1.23, Daphnia magna	500.00 (72 hr), Scenedesmus subspicatus
Methyl ethyl ketoxime - (96-29-7)	320.00, Leuciscus idus	500.00, Daphnia magna	83.00 (72 hr), Scenedesmus subspicatus

- 12.2.
- 가 .
- 12.3.
- 12.4.
- 12.5. , , 가
PBT (,) vPvB (,) .
- 12.6.

13.

- 13.1.
- .
- 가
- . .

14.

- 14.1. 1263
- 14.2.
- 14.3. 1263, , 3, III, 3[Y]
- IMDG Class/Div. 3
- EmS F-E,S-E
- ICAO/IATA 3
- 14.4. III
- 14.5.

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IMDG :

14.6. 가 가

14.7. MARPOL73/78 Annex II IBC Code .

15.

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4 , 2 , III

MSDS 8 .

n-Butanol (0000071-36-3)
Ethylbenzene (0000100-41-4)
n-Butyl acetate (0000123-86-4)
Titanium dioxide (0013463-67-7)

(CMR):

Silica(quartz) (0014808-60-7)
Ethylbenzene (0000100-41-4)
Titanium dioxide (0013463-67-7)

:

n-Butanol (0000071-36-3)
Ethylbenzene (0000100-41-4)
n-Butyl acetate (0000123-86-4)
Titanium dioxide (0013463-67-7)
xylene (0001330-20-7)

:

n-Butanol (0000071-36-3)
Ethylbenzene (0000100-41-4)
xylene (0001330-20-7)

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Group I:

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Group II:

Ethylbenzene (0000100-41-4)

xylene (0001330-20-7)

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16.

: 10/29/2014

: 4

: 10/15/2007

MSDS KOSHA, NITE, ESIS, NLM, SIDS, IPCS, NCIS

SDS

Section 3 Phrases

H225

H226

H302

H304

H312

H315

H318

H319

H332

H335

H336

H372

H373

This SDS is valid for 5 years from the revised date on page 1.



Akzo Nobel

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