

BEA374 INTERSMOOTH 365 SPC DARK RED

4

10/23/14

1.

1.1. INTERSMOOTH 365 SPC DARK RED  
BEA374

1.2.

1.3.

626-6

( 8-6 )

1.4.

055-632-6286( ),055 586 2310( )

055 587 6276( )

055 586 2310( )

055 586 2310( )

2.

2.1.

2;H225

- 4;H302

- 4;H332

/

2;H315

/

1;H318

-1 ;H335

1;H410

2.2.

11 , 12



H225  
H302  
H315  
H318  
H332  
H335  
H410

[ ]:

P210 / / /  
P261 / /가 / / /  
P264  
P270  
P271 가  
P273  
P280 / / /

[ ]:

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

P312 /  
P321 ( ).  
P330  
P340 가  
P362  
P370 :  
P378  
P391

[ ]:

P403+233 가  
P405 가

[ ]:

P501 ( )

2.3. PBT ( ) vPvB ( )

3.

/	%	GHS	
Copper oxide (Cu2O) CAS No: 0001317-39-1	40-50	- 4;H302 - 1;H400 - 1;H410	[1]
xylene CAS No: 0001330-20-7	20-30	3; H226 - 4;H312 - 4;H332	[1][2]

		/ 2;H315 / 2AIH319 -1 ;H336 - 1;H372	
Acrylic Copper Polymer CAS No:	10-20		[1]
n-Butanol CAS No: 0000071-36-3	5-10	3; H226 - 4;H302 -1 ;H335 / 2;H315 / 1;H318 -1 ;H336	[1][2]
Methyl isobutyl ketone CAS No: 0000108-10-1	5-10	2;H225 - 4;H332 / 2;H319 -1 ;H335	[1][2]
Copper pyrithione CAS No: 0014915-37-8	2.5-5	- 4;H302 - 1;H330 / 2;H315 / 1;H318 - 1;H400	[1]
Copper oxide CAS No: 0001317-38-0	1-2.5	- 4;H302 - 1;H400 - 1;H410	[1]
Titanium dioxide CAS No: 0013463-67-7	1-2.5		[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]
polyamide dispersion CAS No: 0055349-01-4	<1	1;H317 - 4;H413	[1]
	5-10	---	---

- 1)
- 2) 가
- 3) PBT vPvB  
16

4.

4.1.

가

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4.2. 가 /

4.3.

5. ,

5.1.

Note; 가

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5.2.

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5.3.

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가

6.

6.1.

가 가 가 , 가

6.2.

가

6.3.

.8

, , 가 .(13 .)

가

가

, 가

가

7.

7.1.

가  
, 가 (LEL) (OEL)

가

가  
, 가 (LEL) (OEL)

7.2. ( )

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가 , 가  
가 , 61  
1

7.3. Specific end use(s)

가  
, 가 . 3

Hot surfaces, Sparks,

가 ( 60% , )

8.

8.1.

(OEL) (ACGIH)

(ACGIH)

ppm mg/m<sup>3</sup> ppm mg/m<sup>3</sup>

Ethylbenzene	125	545	100	435
Iron oxide				5
Methyl isobutyl ketone			50	205
n-Butanol			C50	C150
Titanium dioxide				10
xylene	150	655	100	434

(P) (Peak exposure limit)  
(R)  
(Sk)  
(Sen)  
(Cat 1)  
(Cat 2) 가  
(Cat 3)

**DNEL/PNEC**

**8.2.**

가

가 , (visor)

(overall)

가

가 가

9.

pH / (°C) (°C) 65  
 22  
 ( = 1)  
 ( , ) / : 1.4 ( n-Butanol )  
 : 6.6 ( xylene )  
 (Pa)  
 1.61  
 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.

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10.6.

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11.

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	LD50, mg/kg	LD50, mg/kg	LD50, mg/L/4hr	/ LD50, mg/L/4hr
Acrylic Copper Polymer - ( )				
Copper oxide - (1317-38-0)	470.00,			
Copper oxide (Cu2O) - (1317-39-1)	470.00,	2,000.00,		50.00,
Copper pyrithione - (14915-37-8)	500.00,	2,000.00,		0.07,
Ethylbenzene - (100-41-4)	3,500.00,	15,433.00,	17.20,	
Methyl isobutyl ketone - (108-10-1)	2,080.00,	16,000.00,		
n-Butanol - (71-36-3)	2,292.00,	3,430.00,		
polyamide dispersion - (55349-01-4)				
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,

( )	4	
( )		
( )	4	
/	2	
/	1	
(1 )	3	
( )		

12.

12.1.

Dangerous Preparations Directive 1999/45/EC

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( 3 )

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	96 hr LC50 mg/l	49 hr EC50 mg/l	ErC50 mg/l
Copper oxide (Cu2O) - (1317-39-1)	0.075, Danio rerio	0.042, Daphnia similis	0.03 (96 hr), Pseudokirchneriella subcapitata
xylene - (1330-20-7)	3.30, Oncorhynchus mykiss	8.50, Palaemonetes pugio	100.00 (72 hr), Chlorococcales
Acrylic Copper Polymer - ( )			
n-Butanol - (71-36-3)	1,376.00, Pimephales promelas	1,328.00, Daphnia magna	500.00 (96 hr), Scenedesmus subspicatus
Methyl isobutyl ketone - (108-10-1)	505.00, Pimephales promelas	1,550.00, Daphnia magna	980.00 (48 hr), Scenedesmus subspicatus
Copper pyrithione - (14915-37-8)	0.0032, Oncorhynchus mykiss	0.022, Daphnia magna	0.035 (72 hr), Selenastrum capricornutum
Copper oxide - (1317-38-0)	25.40, Oncorhynchus mykiss	0.011, Daphnia magna	0.014 (72 hr), Pseudokirchneriella subcapitata
Titanium dioxide - (13463-67-7)	1,000.00, Fundulus heteroclitus	5.50, Daphnia magna	5.83 (72 hr), Pseudokirchneriella subcapitata
Ethylbenzene - (100-41-4)	4.20, Oncorhynchus mykiss	2.93, Daphnia magna	3.60 (96 hr), Pseudokirchneriella subcapitata
polyamide dispersion - (55349-01-4)			

12.2.

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12.3.

12.4.

12.5.

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PBT ( ) vPvB ( )

12.6.

13.

13.1.

가

14.

14.1.

1263

14.2.

14.3.

UN1263, Paint, CLASS 3, PG II, HAZCHEM \*3YE

IMDG

Class/Div. 3

EmS

F-E,S-E

ICAO/IATA 3

14.4. II

14.5.

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IMDG : (Copper(i)oxide)

14.6. 가 가

14.7. MARPOL73/78 Annex II IBC Code .

15.

4 , 2 , III

MSDS 8 .

- n-Butanol (0000071-36-3)
- Ethylbenzene (0000100-41-4)
- Methyl isobutyl ketone (0000108-10-1)
- Titanium dioxide (0013463-67-7)

**(CMR):**

- ethanol (0000064-17-5)
- Ethylbenzene (0000100-41-4)
- Titanium dioxide (0013463-67-7)

:

- n-Butanol (0000071-36-3)
- Ethylbenzene (0000100-41-4)
- Methyl isobutyl ketone (0000108-10-1)
- Titanium dioxide (0013463-67-7)
- xylene (0001330-20-7)

:

- n-Butanol (0000071-36-3)
- Ethylbenzene (0000100-41-4)
- Methyl isobutyl ketone (0000108-10-1)
- xylene (0001330-20-7)

가 :

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( ) :

( ) :

( ) :

**Group I:**

( )

**Group II:**

Copper oxide (0001317-38-0)

Copper oxide (Cu<sub>2</sub>O) (0001317-39-1)

Ethylbenzene (0000100-41-4)

xylene (0001330-20-7)

( ) :

( )

( ) :

**16.**

: 10/23/2014

: 4

: 01/30/2012

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

SDS

Section 3 Phrases

H225

H226

H302

H304

H312

H315

H318

H319

H330

H332

H335

H336

H372

H373

H400

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



Akzo Nobel

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