

BEA361 INTERSMOOTH 360 SPC BLACK

1

08/30/13

1.

1.1. INTERSMOOTH 360 SPC BLACK
BEA361

1.2.

1.3.

International Paint Singapore Pte Ltd
3 Neythal Road
Jurong Town
Singapore 628570

+65 6261 5033

+65 6264 4612

1.4.

+65 6261 5033

2.

2.1.

2;H225

- 4;H302

- 4;H312

- 4;H332

/

2;H315

/

1;H318

-

1;H410

2.2.

11 , 12



H225
H302
H312
H315
H318
H332
H410

[]:

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

[]:

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

P321 ().
P322 ().
P330
P340 가
P362
P363
P370 :
P378
P391

[]:

P403+233 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;H332 - 4;H312	[1][2]

		/ 2;H315	
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]
Zinc pyridinethione CAS No: 0013463-41-7	2.5-5	- 4;H302 - 1;H330 / 2;H315 / 1;H318 - 1;H400	[1]
carbon black CAS No: 0001333-86-4	1-2.5		[1][2]
Copper oxide CAS No: 0001317-38-0	1-2.5	- 4;H302 - 1;H400 - 1;H410	[1]
polyamide dispersion CAS No: 0055349-01-4	<1	1;H317 - 4;H413	[1]

- 1)
- 2) 가
- 3) PBT vPvB
16

가 , 가
가 .

4.

4.1.

가

가 ,

10

4.2. 가 /

4.3.

5.

5.1.

; , , , .

Note; 가 .

가 .

5.2.

, , , 가 : .

5.3.

가 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. ()

, 8

가

가

61

가

1

7.3. Specific end use(s)

가

, 가

. 3

Hot surfaces, Sparks,

가

(60% ,)

8.

8.1.

(OEL)

(ACGIH)

(ACGIH)

ppm

mg/m³

ppm

mg/m³

carbon black

-

-

-

3.5

Methyl isobutyl ketone

75

307

50

205

n-Butanol

50

152

-

-

xylene

150

651

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 가

9.

pH / (°C) (°C) 114
22
(= 1)
(,) / : 1.4 (n-Butanol)

(Pa)

1.56

n- / (Log Kow)

9.2.

10.

10.1.

10.2.

.(Section 7)

가

10.3.

가

10.4.

10.5.

10.6.

가

11.

(OEL)

가

가

가

2

	LD50, mg/kg	LD50, mg/kg	LD50, mg/L/4hr	/ LD50, mg/L/4hr
Acrylic Copper Polymer - ()				

carbon black - (1333-86-4)	8,000.00,			
Copper oxide - (1317-38-0)	470.00,			
Copper oxide (Cu2O) - (1317-39-1)	470.00,	2,000.00,		50.00,
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)				
xylene - (1330-20-7)	4,299.00,	1,548.00,		20.00,
Zinc pyridinethione - (13463-41-7)	774.00,	2,000.00,		1.03,

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

12.

12.1. Dangerous Preparations Directive 1999/45/EC 가 . (3) .
가

	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
Zinc pyridinethione - (13463-41-7)	0.0026, Pimephales	0.0082, Daphnia	0.028 (96 hr), Selenastrum

	promelas	magna	capricornutum
carbon black - (1333-86-4)	1,000.00, Danio rerio	5,600.00, Daphnia magna	10,000.00 (72 hr), Scenedesmus subspicatus
Copper oxide - (1317-38-0)	25.40, Oncorhynchus mykiss	0.011, Daphnia magna	0.014 (72 hr), Pseudokirchneriella subcapitata
polyamide dispersion - (55349-01-4)			

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.

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.

:

IMDG : (Copper(i)oxide)

14.6. 가 가

15.

None noted.

16.

This product complies with IMO Antifouling Systems Convention (AFS 2001).

Antifouling Type - Organotin-free conventional.

Dicopper oxide (1317-39-1)

Zinc pyrithione (13463-41-7)

SDS

Section 3 Phrases

H225

H226

H302

H312

H315

H318

H319

H330

H332

H335

H336

H372

H400

H410

SDS



Akzo Nobel

가