

BEA814 INTERSMOOTH 7465Si SPC BROWN

1

08/30/13

1.

1.1. INTERSMOOTH 7465Si SPC BROWN
BEA814

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.

3; H226

- 4;H302

- 4;H312

- 4;H332

/

2;H315

/

1;H318

-

1;H410

2.2.

11 , 12



H226
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	30-40	- 4;H302 - 1;H400 - 1;H410	[1]
xylene CAS No: 0001330-20-7	10-20	3; H226 - 4;H332 - 4;H312	[1][2]

		/ 2;H315	
Zinc oxide CAS No: 0001314-13-2	10-20	- 1;H400 - 1;H410	[1][2]
Ethylbenzene CAS No: 0000100-41-4	2.5-5	2;H225 - 4;H332	[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]
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

가

(13 .)

가

가

가

7.

7.1.

가

가 (LEL)

(OEL)

가

가

가 (LEL)

(OEL)

7.2. ()

, 8

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 ³	ppm	mg/m ³
Ethylbenzene	125	543	100	434
Iron oxide	-	-	-	5
xylene	150	651	100	434
Zinc oxide	-	-	-	10

(P) (Peak exposure limit)

(R)

(Sk)

(Sen)

(Cat 1)

(Cat 2) 가

(Cat 3)

8.2.

가

가

(visor)

(overall)

가

가

.가

가

9.

pH

/ (°C)

(°C)

137

25

(= 1)

(,)

/

: 1.1 (xylene)

: 6.6 (xylene)

(Pa)

1.84

n-

/

(Log Kow)

9.2.

10.

10.1.

10.2.

.(Section 7)

10.3.

가 가

10.4.

.(7 .)

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
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,	
polyamide dispersion - (55349-01-4)				
xylene - (1330-20-7)	4,299.00,	1,548.00,		20.00,
Zinc oxide - (1314-13-2)	5,000.00,			2.50,

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()	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
Zinc oxide - (1314-13-2)	1.10, Oncorhynchus mykiss	0.098, Daphnia magna	0.042 (72 hr), Pseudokirchneriella subcapitata
Ethylbenzene - (100-41-4)	4.20, Oncorhynchus mykiss	2.93, Daphnia magna	3.60 (96 hr), Pseudokirchneriella subcapitata
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
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.

1263, , 3, III, 3[Y]

IMDG Class/Div. 3

EmS F-E,S-E

ICAO/IATA 3

14.4. III

14.5.

:

IMDG : (Copper(i)oxide)

14.6. 가 가

14.7. MARPOL73/78 Annex II IBC Code .

15.

None noted.

16.

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

Antifouling Type - Organotin-free conventional.

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Dicopper oxide (1317-39-1)

Copper pyrrhione (14915-37-8)

SDS

Section 3 Phrases

H226

H302

H312

H315

H318

H319

H330

H332

H336

H372

H400

H410

SDS



Akzo Nobel

가