

BEA814/N INTERSMOOTH 7465Si SPC BROWN

2

10/23/14

1.

1.1. INTERSMOOTH 7465Si SPC BROWN  
BEA814/N

1.2. 1414518 (Unknown)

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. 3; H226
- 4;H302
- 4;H332
- /
- 2;H315
- /
- 1;H318
- 
- 1;H410

2.2. 11 , 12



H226  
H302  
H315  
H318  
H332  
H410

[ ]:

P210 / / /  
P260 / /  
P261 / /가 / / /  
P262 , ,  
P264  
P270  
P271 가  
P273  
P280 / / /

[ ]:

P301+310 : /  
P302+352 :  
P303+361+353 ( ) :  
/  
P304+312 : /  
P305+351+338 가 : .가  
P312 /  
P321 ( ).  
P330  
P331  
P340 가  
P362  
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]
Zinc oxide CAS No: 0001314-13-2	10-20	- 1;H400 - 1;H410	[1][2]
xylene	5-10	3; H226	[1][2]

CAS No: 0001330-20-7		- 4;H312 - 4;H332 / 2;H315 / 2AIH319 -1 ;H336 - 1;H372	
Ethylbenzene CAS No: 0000100-41-4	2.5-5	2;H225 - 4;H332 - 3;H373 1;H304 / 2;H315 / 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]
Solvent naphtha (petroleum), light aromatic CAS No: 0064742-95-6	2.5-5	1;H304	[1]
Methyl isoamyl ketone CAS No: 0000110-12-3	2.5-5	3; H226 - 4;H332	[1][2]
1,2,4-trimethylbenzene CAS No: 0000095-63-6	1-2.5	3; H226 - 4;H332 / 2;H319 -1 ;H335 / 2;H315 - 2;H411	[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]
	20-30	---	---

- 1)  
2) 가  
3) PBT vPvB  
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.

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5.3.

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가

6.

6.1.

가 가 가 , 가

6.2.

가

6.3.

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, , 가 . (13 .)

가

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 <sup>3</sup>	ppm	mg/m <sup>3</sup>
Ethylbenzene	125	545	100	435

<b>Iron oxide</b>				<b>5</b>
<b>Methyl isoamyl ketone</b>			<b>50</b>	<b>240</b>
<b>Talc</b>				<b>2</b>
<b>xylene</b>	<b>150</b>	<b>655</b>	<b>100</b>	<b>434</b>
<b>Zinc oxide</b>		<b>10</b>		<b>5</b>

(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)

65

24

( = 1)

( , )

/

: 1.05 ( Methyl isoamyl ketone )

: 6.6 ( xylene )

(Pa)

1.84

n-

/

(Log Kow)

9.2.

10.

10.1.

10.2.

.(Section 7 )

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10.3.

가

10.4.

.(7 .)

10.5.

10.6.

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11.

(OEL)

	LD50, mg/kg	LD50, mg/kg	LD50, mg/L/4hr	/ LD50, mg/L/4hr
1,2,4-trimethylbenzene - (95-63-6)	3,400.00,	3,160.00,	18.00,	
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 isoamyl ketone - (110-12-3)	3,200.00,	8,110.00,		
polyamide dispersion - (55349-01-4)				
Solvent naphtha (petroleum), light aromatic - (64742-95-6)	6,800.00,	3,400.00,		
xylene - (1330-20-7)	4,299.00,	1,548.00,		20.00,
Zinc oxide - (1314-13-2)	5,000.00,			2.50,

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

12.

12.1.

Dangerous Preparations Directive 1999/45/EC

가  
( 3 )



	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
Zinc oxide - (1314-13-2)	1.10, Oncorhynchus mykiss	0.098, Daphnia magna	0.042 (72 hr), Pseudokirchneriella subcapitata
xylene - (1330-20-7)	3.30, Oncorhynchus mykiss	8.50, Palaemonetes pugio	100.00 (72 hr), Chlorococcales
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
Solvent naphtha (petroleum), light aromatic - (64742-95-6)	9.22, Oncorhynchus mykiss	6.14, Daphnia magna	19.00 (72 hr), Selenastrum capricornutum
Methyl isoamyl ketone - (110-12-3)	159.00, Pimephales promelas	560.00, Daphnia magna	920.00 (72 hr), Chlorococcales
1,2,4-trimethylbenzene - (95-63-6)	7.72, Pimephales promelas	3.60, Daphnia magna	
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.

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12.3.

12.4.

12.5. , , 가

PBT ( , ) vPvB ( , ) .

12.6.

13.

13.1.

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14.

14.1.

3469

14.2.

3469 PAINT,FLAMMABLE,CORROSIVE, 3,subrisk 8,III

14.3.

UN3469 PAINT,FLAMMABLE,CORROSIVE, CLASS 3, SUBRISK 8, PG II, HAZCHEM \*3WE

EmS

F-E,S-C

ICAO/IATA

3

8

14.4.

III

14.5.

:

IMDG

: (Copper(i)oxide)

14.6.

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14.7.

MARPOL73/78 Annex II IBC Code .

15.

4

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III

MSDS 8

1414518 (Unknown)

Ethylbenzene (0000100-41-4)

Talc (0014807-96-6)

Zinc oxide (0001314-13-2)

1414518 (Unknown)

carbon black (0001333-86-4)

ethanol (0000064-17-5)

Ethylbenzene (0000100-41-4)

1414518 (Unknown)

Ethylbenzene (0000100-41-4)

xylene (0001330-20-7)

1414518 (Unknown)

Ethylbenzene (0000100-41-4)

xylene (0001330-20-7)

Zinc oxide (0001314-13-2)

1414518 (Unknown)

1414518 (Unknown)

1414518 (Unknown)

1414518 (Unknown)

1414518 (Unknown)

1414518 (Unknown)

Copper oxide (0001317-38-0)  
Copper oxide (Cu<sub>2</sub>O) (0001317-39-1)  
Ethylbenzene (0000100-41-4)  
xylene (0001330-20-7)  
Zinc oxide (0001314-13-2)

1414518 (Unknown)

1414518 (Unknown)

1414518 (Unknown)

Talc (0014807-96-6)

**16.**

: 10/23/2014

: 2

: 05/15/2014

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

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

Antifouling Type - Organotin-free self-polishing.

Dicopper oxide (1317-39-1)

Copper pyrithione (14915-37-8)

SDS

Section 3 Phrases

H225

H226

H302

H304

H312

H315

H318

H319

H330

H332

H335

H336

H372

H373

H400

H410

H411

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



Akzo Nobel

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