

1.

1.1. INTERSMOOTH 7465Si SPC RED
BEA817/N

1.2.
1414524 (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) PBTvPvB16

4.

4.1.

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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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6.

6.1.

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6.2.

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6.3.

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7.

7.1.

가	.			
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,	가 (LEL) (OEL)			
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가	.			
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,	가 (LEL) (OEL)			
	.			

7.2.

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, 8				
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가 , 가				
61				
가 , 1				
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7.3. Specific end use(s)

가				
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Hot surfaces, Sparks,				
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가 , (60% ,)				
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8.

8.1.

	(OEL)		(ACGIH)	
			(ACGIH)	
	ppm	mg/m ³	ppm	mg/m ³
Ethylbenzene	125	545	100	435

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

(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

24

(= 1)

(,)

/

: 1.05 (Methyl isoamyl ketone)

: 6.6 (xylene)

(Pa)

1.86

n- / (Log Kow)

9.2.

10.

10.1.

10.2.

.(Section 7)

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10.3. 가

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10.4.

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10.5.

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10.6.

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11.

(OEL)

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2

	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 pyrrhione - (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,

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/	2	
/	1	
(1)		
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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
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.
- 가 .
- 12.3.
- 12.4.
- 12.5.
- , , 가
PBT (,) vPvB (,) .
- 12.6.

13.

- 13.1.
- .
- 가
- ..

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.	가	가
14.7.		MARPOL73/78 Annex II IBC Code .
15.		
		.
	4	, 2 , III
	MSDS 8	.
1414524 (Unknown)	Ethylbenzene (0000100-41-4)	
	Talc (0014807-96-6)	
	Zinc oxide (0001314-13-2)	
1414524 (Unknown)	ethanol (0000064-17-5)	
	Ethylbenzene (0000100-41-4)	
1414524 (Unknown)	Ethylbenzene (0000100-41-4)	
	xylene (0001330-20-7)	
1414524 (Unknown)	Ethylbenzene (0000100-41-4)	
	xylene (0001330-20-7)	
	Zinc oxide (0001314-13-2)	
1414524 (Unknown)		
1414524 (Unknown)		
1414524 (Unknown)		
1414524 (Unknown)		
	Copper oxide (0001317-38-0)	

Copper oxide (Cu2O) (0001317-39-1)

Ethylbenzene (0000100-41-4)

xylene (0001330-20-7)

Zinc oxide (0001314-13-2)

1414524 (Unknown)

1414524 (Unknown)

1414524 (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.

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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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