

BMA668 INTERSWIFT 6600 BROWN

1

08/30/13

1.

1.1. INTERSWIFT 6600 BROWN
BMA668

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;H317

1;H410

2.2.

11 , 12



H226
H302
H312
H315
H317
H332
H410

[]:

P210 / / /
P261 / /가 / / /
P264
P270
P271 가
P272
P273
P280 / / /

[]:

P301+312 : /
P302+352 :
P303+361+353 () :
/
P304+340 : 가
P321 ().
P322 ().
P330
P333+313 /
P362
P363
P370 :
P378 , , ,
P391

[]:

P403+233 가

[]:

P501 ()

2.3. PBT (,) vPvB (,)

3.

/	%	GHS	
Copper oxide (Cu2O) CAS No: 0001317-39-1	20-30	- 4;H302 - 1;H400 - 1;H410	[1]
xylene CAS No: 0001330-20-7	20-30	3; H226 - 4;H332 - 4;H312 / 2;H315	[1][2]
Zinc oxide CAS No: 0001314-13-2	10-20	- 1;H400	[1][2]

		- 1;H410	
Rosin CAS No: 0008050-09-7	10-20	1;H317	[1][2]
Zineb CAS No: 0012122-67-7	5-10	-1 ;H335 1;H317	[1]
Iron(III) oxide CAS No: 0001332-37-2	1-2.5		[1]
Amorphous fumed silica CAS No: 0112945-52-5	1-2.5		[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

7.

7.1.

가

가 (LEL)

(OEL)

가

가

가 (LEL)

(OEL)

7.2.

()

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
xylene	150	651	100	434
Zinc oxide	-	-	-	10

(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)

116

24

(= 1)

(,)

/

: 1.1 (xylene)

: 6.6 (xylene)

(Pa)

1.69

n-

/

(Log Kow)

9.2.

10.

10.1.

10.2.

10.3. 가

10.4.

10.5.

10.6.

11.

(OEL)

가

가

가

2

	LD50, mg/kg	LD50, mg/kg	LD50, mg/L/4hr	/ LD50, mg/L/4hr
Amorphous fumed silica - (112945-52-5)	3,160.00,			
Copper oxide (Cu2O) - (1317-39-1)	470.00,	2,000.00,		50.00,
Iron(III) oxide - (1332-37-2)				
Rosin - (8050-09-7)	7,600.00,	2,500.00,		
xylene - (1330-20-7)	4,299.00,	1,548.00,		20.00,
Zinc oxide - (1314-13-2)	5,000.00,			2.50,
Zineb - (12122-67-7)	2,000.00,	2,000.00,		5.00,

()	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
Rosin - (8050-09-7)	1.00, Danio rerio	10.00, Daphnia magna	100.00 (72 hr), Selenastrum capricornutum
Zineb - (12122-67-7)	7.20, Poecilia reticulata	0.97, Daphnia magna	0.5272 (96 hr), Chlorella pyrenoidosa
Iron(III) oxide - (1332-37-2)			
Amorphous fumed silica - (112945-52-5)			

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.

-

Dicopper oxide (1317-39-1)

Zineb (12122-67-7)

SDS

H226
H302
H312
H315
H317
H319
H332
H335
H336
H372
H400
H410

SDS



Akzo Nobel

가