

LPA714 INTERCEPT 7000 BROWN

1

08/30/13

1.**1.1.**

INTERCEPT 7000 BROWN

LPA714

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

- 3;H331

/

2;H315

/

1;H318

1;H317

1;H410

2.2.

11 , 12



H226
H302
H312
H315
H317
H318
H331
H410

[]:

P210 / / /

P261 / /가 / / /

P264

P270

P271 가

P272

P273

P280 / / /

[]:

P301+310 : /

P302+352 :

P303+361+353 () :

P304+312 : /

P305+351+338 가 : .가

P311 /

P321 ().

P322 ().

P330

P333+313 /

P340 가

P362

P363

P370 :

P378 , , ,

P391

[]:

P403+233 가

P405 가

[]:

P501 ()

2.3.

PBT (,) vPvB (,)

3.

/	%	GHS	
Copper oxide (Cu ₂ O) CAS No: 0001317-39-1	30-40	- 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;H410	[1][2]
Rosin CAS No: 0008050-09-7	5-10	1;H317	[1][2]
Copper pyrithione CAS No: 0014915-37-8	5-10	- 4;H302 - 1;H330 / 2;H315 / 1;H318 - 1;H400	[1]
n-Butanol CAS No: 0000071-36-3	2.5-5	3; H226 - 4;H302 -1 ;H335 / 2;H315 / 1;H318 -1 ;H336	[1][2]
Acrylic Copolymer CAS No:	2.5-5	/ 2;H315 / 2;H319 - 1;H410	[1]
Iron oxide CAS No: 0001309-37-1	1-2.5		[1][2]
2-methyl butacrylate CAS No: 0000097-88-1	1-2.5	3; H226 / 2;H319 -1 ;H335 / 2;H315 1;H317	[1]
2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-ylester,exo- CAS No: 0007534-94-3	1-2.5	/ 2;H319 -1 ;H335 / 2;H315 - 2;H411	[1]
carbon black CAS No: 0001333-86-4	1-2.5		[1][2]
Amorphous fumed silica CAS No: 0112945-52-5	1-2.5		[1]
Copper oxide CAS No: 0001317-38-0	1-2.5	- 4;H302 - 1;H400 - 1;H410	[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

가 , 61
1

7.3. Specific end use(s)

가

,가 .3

Hot surfaces, Sparks,

8.

8.1.	(OEL)	(ACGIH)			
		(ACGIH)		(ACGIH)	
		ppm	mg/m ³	ppm	mg/m ³
carbon black	-	-	-	-	3.5
Iron oxide	-	-	-	-	5
n-Butanol	50	152	-	-	-
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)

가

.가

가

9.

pH

/ (°C)

(°C)

65

25

(= 1)

(,)

/

: 1.1 (xylene)

: 6.6 (xylene)

(Pa)

1.83

n-

/

(Log Kow)

9.2.

10.

10.1.

10.2.

.(Section 7)

가

10.3.

가

10.4.

.(7 .)

10.5.

10.6.

11.

(OEL)

가

가

가

2

	LD50, mg/kg	LD50, mg/kg	LD50, mg/L/4hr	/ LD50, mg/L/4hr
2-methyl butacrylate - (97-88-1)	16,000.00,	10,125.00,		
2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-ylester,exo- - (7534-94-3)				
Acrylic Copolymer - ()				
Amorphous fumed silica - (112945-52-5)	3,160.00,			
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,
Copper pyrithione - (14915-37-8)	500.00,	2,000.00,		0.07,
Iron oxide - (1309-37-1)	10,000.00,			
n-Butanol - (71-36-3)	2,292.00,	3,430.00,		
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,

()	4	
()	4	
()	3	
/	2	
/	1	
	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
Copper pyrithione - (14915-37-8)	0.0032, Oncorhynchus mykiss	0.022, Daphnia magna	0.035 (72 hr), Selenastrum capricornutum
n-Butanol - (71-36-3)	1,376.00, Pimephales promelas	1,328.00, Daphnia magna	500.00 (96 hr), Scenedesmus subspicatus
Acrylic Copolymer - ()			
Iron oxide - (1309-37-1)			
2-methyl butacrylate - (97-88-1)	11.00, Pimephales promelas	32.00, Daphnia magna	57.00 (96 hr), Pseudokirchneriella subcapitata
2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-ylester,exo- - (7534-94-3)			
carbon black - (1333-86-4)	1,000.00, Danio rerio	5,600.00, Daphnia magna	10,000.00 (72 hr), Scenedesmus subspicatus
Amorphous fumed silica - (112945-52-5)			
Copper oxide - (1317-38-0)	25.40, Oncorhynchus mykiss	0.011, Daphnia magna	0.014 (72 hr), Pseudokirchneriella subcapitata

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 pyrithione)

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.

Copper pyrrhione (14915-37-8)

Dicopper oxide (1317-39-1)

SDS

Section 3 Phrases

H226

H302

H312

H315

H317

H318

H319

H330

H332

H335

H336

H372

H400

H410

H411

SDS



Akzo Nobel

가