

ENA300 INTERSHIELD 300 BRONZE PART A

1

08/30/13

1.

1.1. INTERSHIELD 300 BRONZE PART A
ENA300

1.2.

1.3.

International Paint Singapore Pte Ltd
3 Neythal Road
Jurong Town
Singapore 628570

1.4.

+65 6261 5033
+65 6264 4612
+65 6261 5033

2.

2.1. .
3; H226
- 4; H312
- 4; H332
/
2; H315
/
1; H318
1; H317
-
2; H411

2.2.

11 , 12



H226
H312
H315
H317
H318
H332
H411

[]:

P210 / / /
P260 / /
P261 / /가 / / /
P262 , ,
P264
P271 가
P272
P273
P280 / / /

[]:

P301+310 : /
P302+352 :
P303+361+353 () :
/
P304+312 : /
P305+351+338 가 : .가
P310 /
P321 ().
P322 ().
P331
P333+313 /
P340 가
P362
P363
P370 :
P378 , , ,
P391

[]:

P403+233 가

[]:

P501 ()

2.3. PBT (,) vPvB (,)

3.

/	%	GHS	
Epoxy resin (av.mol.wt.<700)	30-40	/ 2;H319	[1]

CAS No: 0025068-38-6		/ 2;H315 1;H317 - 2;H411	
xylene CAS No: 0001330-20-7	10-20	3; H226 - 4;H332 - 4;H312 / 2;H315	[1][2]
Aluminium, alkyls CAS No: 0007429-90-5	5-10	Water react. 2;H261 H250	[1][2]
Solvent naphtha (petroleum), heavy aromatic CAS No: 0064742-94-5	2.5-5	1;H304	[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]
Solvent naphtha (petroleum), light aromatic CAS No: 0064742-95-6	1-2.5	1;H304	[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 , 가

7.

7.1.

가

, 가 (LEL) (OEL)

가

가

가 (LEL)

(OEL)

7.2. ()

, 8

가

가

61

가

1

7.3. Specific end use(s)

가

, 가

. 3

Hot surfaces, Sparks,

가

(60%)

8.

8.1.

(OEL)

(ACGIH)

(ACGIH)

ppm

mg/m³

ppm

mg/m³

Aluminium, alkyls

-

-

-

2

n-Butanol

50

152

-

-

xylene

150

651

100

434

(P) (Peak exposure limit)

(R)

(Sk)

(Sen)

(Cat 1)
(Cat 2)
(Cat 3)

가

DNEL/PNEC

8.2.

가

가

(visor)

(overall)

가

가

가

가

9.

pH

/ (°C)

(°C)

116

28

(= 1)

(,)

/

: 1.1 (xylene)

: 6.6 (xylene)

(Pa)

1.31

9.2.

10.

10.1.

10.2.

.(Section 7)

가

10.3.

가

10.4.

.(7 .)

10.5.

10.6.

가

11.

(OEL)

가

Data

가

가

2

	LD50, mg/kg	LD50, mg/kg	LD50, mg/L/4hr	/ LD50, mg/L/4hr
Aluminium, alkyls - (7429-90-5)				
Amorphous fumed silica - (112945-52-5)	3,160.00,			
Epoxy resin (av.mol.wt.<700) - (25068-38-6)	2,000.00,	2,000.00,		

n-Butanol - (71-36-3)	2,292.00,	3,430.00,		
Solvent naphtha (petroleum), heavy aromatic - (64742-94-5)	5,000.00,	2,000.00,		
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,

()		
()	4	
()	4	
/	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
Epoxy resin (av.mol.wt.<700) - (25068-38-6)	3.10, Pimephales promelas	1.40, Daphnia magna	
xylene - (1330-20-7)	3.30, Oncorhynchus mykiss	8.50, Palaemonetes pugio	100.00 (72 hr), Chlorococcales
Aluminium, alkyls - (7429-90-5)	0.12, Oncorhynchus mykiss	3.50, Daphnia magna	
Solvent naphtha (petroleum), heavy aromatic - (64742-94-5)	45.00, Pimephales promelas	12.00, Daphnia magna	2.50 (72 hr), Skeletonema costatum
n-Butanol - (71-36-3)	1,376.00, Pimephales promelas	1,328.00, Daphnia magna	500.00 (96 hr), Scenedesmus subspicatus
Solvent naphtha (petroleum), light aromatic - (64742-95-6)	9.22, Oncorhynchus mykiss	6.14, Daphnia magna	19.00 (72 hr), Selenastrum capricornutum
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

: (Epoxy Resin)

14.6.

가

가

14.7.

MARPOL73/78 Annex II IBC Code .

15.

None noted.

16.

SDS

Section 3

Phrases

H226

H250

H261

가

H302

H304

H312

H315

H317

H318

H319

H332

H335

H336

H372

H411

SDS



Akzo Nobel

가