

ENA380 INTERSHIELD 300HS BRONZE PART A

1

08/30/13

1.

1.1. INTERSHIELD 300HS BRONZE PART A
ENA380

1.2.

1.3.

International Paint Singapore Pte Ltd
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+65 6264 4612

1.4.

+65 6261 5033

2.

2.1. .
3; H226
/
2;H315
/
2;H319
1;H317
-
2;H411

2.2.
11 , 12



H315
H317
H319
H411

[]:

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

[]:

P301+310 : /
P302+352 :
P303+361+353 () :
/
P305+351+338 가 : .가

P312 /
P321 ().
P331
P333+313 /
P337 :
P362
P363
P370 :
P378 , , ,
P391

[]:

P403+233 가

[]:

P501 ()

2.3.
PBT (,) vPvB (,)

3.

/	%	GHS	
Epoxy resin (av.mol.wt.<700) CAS No: 0025068-38-6	30-40	/ 2;H319 / 2;H315 1;H317 - 2;H411	[1]
Aluminium, alkyls CAS No: 0007429-90-5	5-10	Water react. 2;H261 H250	[1][2]
Epoxidised cashew nutshell liquid CAS No: 0068413-24-1	5-10		[1]
xylene	2.5-5	3; H226	[1][2]

CAS No: 0001330-20-7		- 4;H332 - 4;H312 / 2;H315	
1,2,3-Trimethylbenzene CAS No: 0000526-73-8	2.5-5	3; H226	[1]
Solvent naphtha (petroleum), light aromatic CAS No: 0064742-95-6	1-2.5	1;H304	[1]
n-Butanol CAS No: 0000071-36-3	1-2.5	3; H226 - 4;H302 -1 ;H335 / 2;H315 / 1;H318 -1 ;H336	[1][2]
3-Glycidyloxypropyl-trimethoxysilane CAS No: 0002530-83-8	1-2.5	/ 1;H318	[1]
polyamide dispersion CAS No: 0055349-01-4	<1	1;H317 - 4;H413	[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

5.2.

가

가

5.3.

가

가

6.

6.1.

가

가

가 가

6.2.

가

6.3.

.8

가

가

(13 .)

가

가

가

7.

7.1.

가

가 (LEL)

(OEL)

가

가

가 (LEL)

(OEL)

7.2. ()

, 8

가 , 가 , 1 가

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 - -

Talc

- - - 2

xylene

150 651 100 434

(P) (Peak exposure limit)

(R)

(Sk)

(Sen)

(Cat 1)

(Cat 2)

(Cat 3)

가

8.2.

가

가

(visor)

(overall)

가

가

.가

가

9.

pH

/ (°C)

(°C)

116

42

(= 1)

(,)

/

: 1.1 (xylene)

: 6.6 (xylene)

(Pa)

1.42

n-

/

(Log Kow)

9.2.

10.

10.1.

10.2.

.(Section 7)

10.3.

가 가

10.4.

.(7 .)

10.5.

10.6.

가

11.

(OEL)

가

Data

가

2

가

	LD50, mg/kg	LD50, mg/kg	LD50, mg/L/4hr	/ LD50, mg/L/4hr
1,2,3-Trimethylbenzene - (526-73-8)				
3-Glycidyoxypropyl-trimethoxysilane - (2530-83-8)	8,030.00,	4,248.00,		5.30,
Aluminium, alkyls - (7429-90-5)				
Epoxidised cashew nutshell liquid - (68413-24-1)				
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,		
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,

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()		
/	2	
/	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 ,
Epoxy resin (av.mol.wt.<700) - (25068-38-6)	3.10, Pimephales promelas	1.40, Daphnia magna	
Aluminium, alkyls - (7429-90-5)	0.12, Oncorhynchus mykiss	3.50, Daphnia magna	
Epoxidised cashew nutshell liquid - (68413-24-1)			
xylene - (1330-20-7)	3.30, Oncorhynchus mykiss	8.50, Palaemonetes pugio	100.00 (72 hr), Chlorococcales
1,2,3-Trimethylbenzene - (526-73-8)			
Solvent naphtha (petroleum), light aromatic - (64742-95-6)	9.22, Oncorhynchus mykiss	6.14, Daphnia magna	19.00 (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
3-Glycidyoxypropyl-trimethoxysilane - (2530-83-8)	55.00, Cyprinus carpio	473.00, Daphnia magna	255.00 (72 hr), Scenedesmus subspicatus

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