

**KNA340 INTERGARD 343 BRONZE PART A**

1

08/30/13

1.

1.1. INTERGARD 343 BRONZE PART A  
KNA340

1.2.

1.3.

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3 Neythal Road  
Jurong Town  
Singapore 628570

+65 6261 5033

+65 6264 4612

1.4.

+65 6261 5033

2.

2.1. .  
3; H226  
- 4;H312  
- 4;H332

/  
2;H315

/  
2;H319

1;H317

2;H411

2.2.

11 , 12



H226  
H312  
H315  
H317  
H319  
H332  
H411

[ ]:

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

[ ]:

P302+352 :  
P303+361+353 ( ) :  
/ /  
P304+312 : /  
P305+351+338 가 : .가  
P321 ( ).  
P322 ( ).  
P333+313 /  
P337 :  
P340 가  
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]
xylene CAS No: 0001330-20-7	10-20	3; H226 - 4;H332	[1][2]

		- 4;H312 / 2;H315	
Aluminium, alkyls CAS No: 0007429-90-5	2.5-5	Water react. 2;H261 H250	[1][2]
n-Butanol CAS No: 0000071-36-3	1-2.5	3; H226 - 4;H302 -1 ;H335 / 2;H315 / 1;H318 -1 ;H336	[1][2]
1,2,3-Trimethylbenzene CAS No: 0000526-73-8	1-2.5	3; H226	[1]
Propylene glycol mono methyl ether CAS No: 0000107-98-2	1-2.5	3; H226 -1 ;H336	[1][2]
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

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/m<sup>3</sup>

ppm

mg/m<sup>3</sup>

Aluminium, alkyls

-

-

-

2

n-Butanol

50

152

-

-

Propylene glycol mono methyl ether

150

553

100

369

Talc

-

-

-

2

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)

( , )

/

: 1.4 ( n-Butanol )

: 6.6 ( xylene )

(Pa)

1.38

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
1,2,3-Trimethylbenzene - (526-73-8)				
Aluminium, alkyls - (7429-90-5)				
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)				
Propylene glycol mono methyl ether - (107-98-2)	5,000.00,	13,000.00,		
xylene - (1330-20-7)	4,299.00,	1,548.00,		20.00,

( )		
( )	4	
( )	4	
/	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	
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	
n-Butanol - (71-36-3)	1,376.00, Pimephales promelas	1,328.00, Daphnia magna	500.00 (96 hr), Scenedesmus subspicatus
1,2,3-Trimethylbenzene - (526-73-8)			
Propylene glycol mono methyl ether - (107-98-2)	1,000.00, Oncorhynchus mykiss	500.00, Daphnia magna	1,000.00 (96 hr), Selenastrum capricornutum
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. 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

H302

H312

H315

H317

H318

H319

H332

H335

H336

H372

H411

**SDS**



Akzo Nobel

가