

EPA028 INTERGARD 400 BROWN PART A

4

10/27/14

1.

1.1. INTERGARD 400 BROWN PART A
EPA028

1.2.

1.3.

626-6

(8-6)

1.4.

055-632-6286(),055 586 2310()

055 587 6276()

055 586 2310()

055 586 2310()

2.

2.1.

3; H226

/

2;H315

/

1;H318

1;H317

2;H411

2.2.

11 , 12



H315
H317
H318
H411

[]:

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

[]:

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

P310 /
P321 ().
P331
P333+313 /
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	20-30	/ 2;H319 / 2;H315 1;H317 - 2;H411	[1]
xylene CAS No: 0001330-20-7	5-10	3; H226 - 4;H312 - 4;H332 / 2;H315 / 2A;H319 -1 ;H336 - 1;H372	[1][2]

Solvent naphtha (petroleum), light aromatic CAS No: 0064742-95-6	5-10	1;H304	[1]
n-Butanol CAS No: 0000071-36-3	5-10	3; H226 - 4;H302 -1 ;H335 / 2;H315 / 1;H318 -1 ;H336	[1][2]
1,2,4-trimethylbenzene CAS No: 0000095-63-6	2.5-5	3; H226 - 4;H332 / 2;H319 -1 ;H335 / 2;H315 - 2;H411	[1][2]
Ethylbenzene CAS No: 0000100-41-4	1-2.5	2;H225 - 4;H332 - 3;H373 1;H304 / 2;H315 / 2;H319 -1 ;H335	[1][2]
	50-60	---	---

- 1)
- 2) 가
- 3) PBT vPvB
16

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
가 가

6.2.

가 .

6.3.

.8 .

, , 가 . (13 .)

가 .

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

Ethylbenzene

125

545

100

435

Iron oxide

5

n-Butanol

C50

C150

xylene

150

655

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

23

(= 1)

(,)

/

: 1.1 (xylene)

: 6.6 (xylene)

(Pa)

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

가

2

	LD50, mg/kg	LD50, mg/kg	LD50, mg/L/4hr	/ LD50, mg/L/4hr
1,2,4-trimethylbenzene - (95-63-6)	3,400.00,	3,160.00,	18.00,	
Epoxy resin (av.mol.wt.<700) - (25068-	2,000.00,	2,000.00,		

38-6)				
Ethylbenzene - (100-41-4)	3,500.00,	15,433.00,	17.20,	
n-Butanol - (71-36-3)	2,292.00,	3,430.00,		
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,

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()		
()		
/	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
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
1,2,4-trimethylbenzene - (95-63-6)	7.72, Pimephales promelas	3.60, Daphnia magna	
Ethylbenzene - (100-41-4)	4.20, Oncorhynchus mykiss	2.93, Daphnia magna	3.60 (96 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

: (Epoxy Resin)

14.6.

가

가

14.7.

MARPOL73/78 Annex II IBC Code .

15.

MSDS 8

n-Butanol (0000071-36-3)
Ethylbenzene (0000100-41-4)

(CMR):

Silica(quartz) (0014808-60-7)
Ethylbenzene (0000100-41-4)

:

n-Butanol (0000071-36-3)
Ethylbenzene (0000100-41-4)
xylene (0001330-20-7)

:

n-Butanol (0000071-36-3)
Ethylbenzene (0000100-41-4)
xylene (0001330-20-7)

가

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:

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Group I:

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Group II:

Epoxy resin (av.mol.wt.<700) (0025068-38-6)
Ethylbenzene (0000100-41-4)
xylene (0001330-20-7)

:

()

()

:

()

16.

: 10/27/2014

: 4

: 01/17/2007

MSDS KOSHA, NITE, ESIS, NLM, SIDS, IPCS, NCIS

Section 3

Phrases

H225

H226

H302

H304

H312

H315

H317

H318

H319

H332

H335

H336

H372

H373

H411

This SDS is valid for 5 years from the revised date on page 1.



Akzo Nobel

가