

ECX45B INTERGARD 740 BROWN PART A

4

10/25/14

1.

1.1. INTERGARD 740 BROWN PART A  
ECX45B

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

/

2;H319

1;H317

-1 ;H335

3;H412

2.2.

11 , 12



H226  
H315  
H317  
H319  
H335  
H412

[ ]:

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  
P312 /  
P321 ( ).  
P331  
P333+313 /  
P337 :  
P340 가  
P362  
P363  
P370 :  
P378 , , ,

[ ]:

P403+233 가  
P405 가

[ ]:

P501 ( )

2.3. PBT ( , ) vPvB ( , )

3.

| /                              | %     | GHS   |        |
|--------------------------------|-------|---|--------|
| xylene<br>CAS No: 0001330-20-7 | 20-30 | 3; H226<br>- 4;H312<br>- 4;H332<br>/ 2;H315 | [1][2] |

|  |       |  |        |
|--|-------|--|--------|
|  |       | / 2AIH319<br>-1 ;H336<br>- 1;H372  |        |
| Epoxy resin (av.mol.wt.<700)<br>CAS No: 0025068-38-6   | 10-20 | / 2;H319<br>/ 2;H315<br>1;H317<br>- 2;H411                                   | [1]    |
| Cyclohexanol, 4,4(1-methylethylidene)bis-,<br>polymer with (chloromethyl)oxirane<br>CAS No: 0030583-72-3 | 5-10  | 1;H317<br>- 2;H411   | [1]    |
| Ethylbenzene<br>CAS No: 0000100-41-4   | 2.5-5 | 2;H225<br>- 4;H332<br>- 3;H373<br>1;H304<br>/ 2;H315<br>/ 2;H319<br>-1 ;H335 | [1][2] |
| Titanium dioxide<br>CAS No: 0013463-67-7   | 2.5-5 |  | [1][2] |
| Propylene glycol mono methyl ether<br>CAS No: 0000107-98-2   | 2.5-5 | 3; H226<br>-1 ;H336  | [1][2] |
| Solvent naphtha (petroleum), light aromatic<br>CAS No: 0064742-95-6                                      | 1-2.5 | 1;H304   | [1]    |
| polyamide dispersion<br>CAS No: 0055349-01-4   | <1    | 1;H317<br>- 4;H413   | [1]    |
|  | 40-50 | ---  | ---    |

- 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

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/m<sup>3</sup>

ppm

mg/m<sup>3</sup>

Barium Sulphate

2

10

Ethylbenzene

125

545

100

435

Propylene glycol mono methyl ether

150

540

100

360

Talc

2

Titanium dioxide

10

xylene

150

655

100

434

(P) (Peak exposure limit)

(R)

(Sk)

(Sen)

(Cat 1)

(Cat 2) 가

(Cat 3)

**DNEL/PNEC**

**8.2.**

가

가

(visor)

(overall)

가

가

가

가

9.

pH

/

(°C)

(°C)

108

27

( = 1)  
( , )

/

: 1.1 ( xylene )

: 6.6 ( xylene )

(Pa)

1.36

n- / (Log Kow)

9.2.

10.

10.1.

10.2.

.(Section 7 )

가

10.3.

가

10.4.

.(7 .)

10.5.

10.6.

가

11.

(OEL)

가

가

Data

|   | LD50,<br>mg/kg | LD50,<br>mg/kg | LD50,<br>mg/L/4hr | / LD50,<br>mg/L/4hr |
|---|----------------|----------------|-------------------|---------------------|
| Cyclohexanol, 4,4(1-methylethylidene) bis-, polymer with (chloromethyl)oxirane - (30583-72-3) |                |                |                   |                     |
| Epoxy resin (av.mol.wt.<700) - (25068-38-6)   | 2,000.00,      | 2,000.00,      |                   |                     |
| Ethylbenzene - (100-41-4)   | 3,500.00,      | 15,433.00,     | 17.20,            |                     |
| polyamide dispersion - (55349-01-4)   |                |                |                   |                     |
| Propylene glycol mono methyl ether - (107-98-2)   | 5,000.00,      | 13,000.00,     |                   |                     |
| Solvent naphtha (petroleum), light aromatic - (64742-95-6)                                    | 6,800.00,      | 3,400.00,      |                   |                     |
| Titanium dioxide - (13463-67-7)   | 10,000.00,     | 10,000.00,     |                   | 6.82,               |
| xylene - (1330-20-7)  | 4,299.00,      | 1,548.00,      |                   | 20.00,              |

|      |   |  |
|------|---|--|
|      |   |  |
| ( )  |   |  |
| ( )  |   |  |
| ( )  |   |  |
| /    | 2 |  |
| /    | 2 |  |
|      |   |  |
|      | 1 |  |
|      |   |  |
|      |   |  |
|      |   |  |
| (1 ) | 3 |  |
| ( )  |   |  |
|      |   |  |

12.

12.1.

Dangerous Preparations Directive 1999/45/EC

가  
( 3 )

가

|                      | 96 hr LC50<br>mg/l        | 49 hr EC50<br>mg/l | ErC50<br>mg/l                  |
|----------------------|---------------------------|--------------------|--------------------------------|
| xylene - (1330-20-7) | 3.30, Oncorhynchus mykiss | 8.50, Palaemonetes | 100.00 (72 hr), Chlorococcales |



|  |                                 |                       |   |
|--|---------------------------------|-----------------------|---|
|  |                                 | pugio                 |   |
| Epoxy resin (av.mol.wt.<700) - (25068-38-6)  | 3.10, Pimephales promelas       | 1.40, Daphnia magna   |   |
| Cyclohexanol, 4,4(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane - (30583-72-3) |                                 |                       |   |
| Ethylbenzene - (100-41-4)  | 4.20, Oncorhynchus mykiss       | 2.93, Daphnia magna   | 3.60 (96 hr), Pseudokirchneriella subcapitata |
| Titanium dioxide - (13463-67-7)  | 1,000.00, Fundulus heteroclitus | 5.50, Daphnia magna   | 5.83 (72 hr), Pseudokirchneriella subcapitata |
| Propylene glycol mono methyl ether - (107-98-2)  | 1,000.00, Oncorhynchus mykiss   | 500.00, Daphnia magna | 1,000.00 (96 hr), Selenastrum capricornutum   |
| Solvent naphtha (petroleum), light aromatic - (64742-95-6)                                   | 9.22, Oncorhynchus mykiss       | 6.14, Daphnia magna   | 19.00 (72 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

:

14.6. 가

가

14.7.

MARPOL73/78 Annex II IBC Code .

15.

4 , 2 , III

MSDS 8 .

Ethylbenzene (0000100-41-4)

Talc (0014807-96-6)

Titanium dioxide (0013463-67-7)

(CMR):

Ethylbenzene (0000100-41-4)

Titanium dioxide (0013463-67-7)

:

Ethylbenzene (0000100-41-4)

Titanium dioxide (0013463-67-7)

xylene (0001330-20-7)

:

Ethylbenzene (0000100-41-4)

xylene (0001330-20-7)

가

:

( )

:

( )

:

( )

:

( )

Group I:

( )

Group II:

Barium Sulphate (0007727-43-7)

Epoxy resin (av.mol.wt.<700) (0025068-38-6)

Ethylbenzene (0000100-41-4)

xylene (0001330-20-7)

:

( )

:

( )

:

Talc (0014807-96-6)

**16.**

: 10/25/2014

: 4

: 03/25/2008

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

SDS

Section 3 Phrases

H225

H226

H304

H312

H315

H317

H319

H332

H335

H336

H372

H373

H411

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



Akzo Nobel

가