

ECS226 INTERGARD 740 RAL2011 DEEP ORANGE PT A

4

10/25/14

1.

1.1. INTERGARD 740 RAL2011 DEEP ORANGE PT A  
ECS226

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

3;H412

2.2.

11 , 12



H315  
H317  
H319  
H412

[ ]:

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

[ ]:

P301+310 : /  
P302+352 :  
P303+361+353 ( ) :  
/  
P305+351+338 가 : .가  
P321 ( ).  
P331  
P333+313 /  
P337 :  
P362  
P363  
P370 :  
P378 , , ,

[ ]:

P403+233 가

[ ]:

P501 ( )

2.3. PBT ( , ) vPvB ( , )

3.

| /  | %     | GHS  |        |
|--|-------|--|--------|
| xylene<br>CAS No: 0001330-20-7   | 10-20 | 3; H226<br>- 4;H312<br>- 4;H332<br>/ 2;H315<br>/ 2AIH319<br>-1 ;H336<br>- 1;H372 | [1][2] |
| 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 | 2.5-5 | 1;H317<br>- 2;H411   | [1]    |

|   |       |  |        |
|---|-------|--|--------|
| CAS No: 0030583-72-3  |       |  |        |
| 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] |
| 1-Methoxy-2-propyl acetate<br>CAS No: 0000108-65-6                  | 1-2.5 | 3; H226  | [1]    |
| Titanium dioxide<br>CAS No: 0013463-67-7                            | 1-2.5 |  | [1][2] |
| Propylene glycol mono methyl ether<br>CAS No: 0000107-98-2          | 1-2.5 | 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]    |
|   | 50-60 | ---  | ---    |

- 1)
- 2) 가
- 3) PBT vPvB  
16

4.

4.1.

가

가

10

4.2. 가 /

4.3.

5. ,

5.1.

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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) 117  
27  
( = 1)  
( , ) / : 1.1 ( xylene )

(Pa)

1.28

n- / (Log Kow)

9.2.

10.

10.1.

10.2.

.(Section 7 )

가

10.3.

가

10.4.

10.5.

10.6.

가

11.

(OEL)

가

Data

가

가

2

|  |       |       |  |  |
|--|-------|-------|--|--|
|  | LD50, | LD50, |  |  |
|--|-------|-------|--|--|

|   | mg/kg      | mg/kg      | LD50,<br>mg/L/4hr | / LD50,<br>mg/L/4hr |
|---|------------|------------|-------------------|---------------------|
| 1-Methoxy-2-propyl acetate - (108-65-6)   | 8,532.00,  | 5,000.00,  |                   |                     |
| 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,              |

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

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 pugio | 100.00 (72 hr), Chlorococcales |
| 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 |
| 1-Methoxy-2-propyl acetate - (108-65-6)                                  | 100.00, Salmo gairdneri         | 500.00, Daphnia magna |   |
| 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):

carbon black (0001333-86-4)

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

:

( )

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( )

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( )

:

( )

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

: 03/24/2006

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