

**EAZ028 INTERZONE 954 RAL9003 SIGNAL WHITE PTA**

4

10/25/14

**1.**

**1.1.** INTERZONE 954 RAL9003 SIGNAL WHITE PTA  
EAZ028

**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

2;H411

**2.2.**

11 , 12



H315  
H317  
H319  
H411

[ ]:

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

[ ]:

P302+352 :  
P303+361+353 ( ) :  
/ 가 : .가

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

[ ]:

P403+233 가

[ ]:

P501 ( )

2.3. PBT ( , ) vPvB ( , )

3.

| /  | %     | GHS  |        |
|--|-------|--|--------|
| Epoxy resin (av.mol.wt.<700)<br>CAS No: 0025068-38-6 | 20-30 | / 2;H319<br>/ 2;H315<br>1;H317<br>- 2;H411                                       | [1]    |
| Titanium dioxide<br>CAS No: 0013463-67-7             | 10-20 |  | [1][2] |
| xylene<br>CAS No: 0001330-20-7                       | 5-10  | 3; H226<br>- 4;H312<br>- 4;H332<br>/ 2;H315<br>/ 2A;H319<br>-1 ;H336<br>- 1;H372 | [1][2] |
| Ethylbenzene<br>CAS No: 0000100-41-4                 | 1-2.5 | 2;H225<br>- 4;H332<br>- 3;H373   | [1][2] |

|  |       |  |     |
|--|-------|--|-----|
|  |       | 1;H304<br>/ 2;H315<br>/ 2;H319<br>-1 ;H335 |     |
| 3-Glycidyloxypropyl-trimethoxysilane<br>CAS No: 0002530-83-8 | 1-2.5 | / 1;H318                                   | [1] |
|  | 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

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.

( )

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/m<sup>3</sup>

ppm

mg/m<sup>3</sup>

Barium Sulphate

2

10

Ethylbenzene

125

545

100

435

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)

114

35

( = 1)

( , )

/

: 1.1 ( xylene )

: 6.6 ( xylene )

(Pa)

1.79

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

Data

가

가

2

|  | LD50,<br>mg/kg | LD50,<br>mg/kg | LD50,<br>mg/L/4hr | / LD50,<br>mg/L/4hr |
|--|----------------|----------------|-------------------|---------------------|
| 3-Glycidyloxypropyl-trimethoxysilane - (2530-83-8) | 8,030.00,      | 4,248.00,      |                   | 5.30,               |
| 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,            |                     |
| 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 ) |   |   |
| ( )  |   |   |
|      |   |   |

**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                                 |
|---|---------------------------------|--------------------------|---|
| Epoxy resin (av.mol.wt.<700) - (25068-38-6)       | 3.10, Pimephales promelas       | 1.40, Daphnia magna      |   |
| Titanium dioxide - (13463-67-7)                   | 1,000.00, Fundulus heteroclitus | 5.50, Daphnia magna      | 5.83 (72 hr), Pseudokirchneriella subcapitata |
| xylene - (1330-20-7)                              | 3.30, Oncorhynchus mykiss       | 8.50, Palaemonetes pugio | 100.00 (72 hr), Chlorococcales                |
| Ethylbenzene - (100-41-4)                         | 4.20, Oncorhynchus mykiss       | 2.93, Daphnia magna      | 3.60 (96 hr), Pseudokirchneriella subcapitata |
| 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.**



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.

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 :

( )

:

( )

:

( )

:

( )

**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

: 12/24/2007

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

SDS

Section 3

Phrases

H225

H226

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