

KHA304 INTERTUF 262 BLACK PART A

1

08/30/13

1.

1.1. INTERTUF 262 BLACK PART A
KHA304

1.2.

1.3.

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Singapore 628570

+65 6261 5033

+65 6264 4612

1.4.

+65 6261 5033

2.

2.1. 3; H226
/
2;H315
/
2;H319
1;H317
-
2;H411

2.2.
11 , 12



H315
H317
H319
H411

[]:

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 , , ,

P391

[]:

P403+233 가

[]:

P501 ()

2.3. PBT (,) vPvB (,)

3.

| / | % | GHS | |
|---|-------|--|--------|
| Epoxy resin (av.mol.wt.<700) CAS No: 0025068-38-6 | 10-20 | / 2;H319 / 2;H315 1;H317 - 2;H411 | [1] |
| Iron(III) oxide CAS No: 0001317-61-9 | 5-10 | | [1] |
| Solvent naphtha (petroleum), light aromatic CAS No: 0064742-95-6 | 5-10 | 1;H304 | [1] |
| Methyl isoamyl ketone CAS No: 0000110-12-3 | 5-10 | 3; H226 - 4;H332 | [1][2] |
| 1,2,4-trimethylbenzene | 2.5-5 | 3; H226 | [1][2] |

| | | | |
|-----------------------------------|-------|---|--------|
| CAS No: 0000095-63-6 | | - 4;H332 / 2;H319 -1 ;H335 / 2;H315 - 2;H411 | |
| xylene CAS No: 0001330-20-7 | 2.5-5 | 3; H226 - 4;H332 - 4;H312 / 2;H315 | [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) 가
- 3) PBT vPvB
16 가 , 가
가 .

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

가

(13 .)

가

가

가

7.

7.1.

가

가 (LEL)

(OEL)

가

가

가 (LEL)

(OEL)

7.2. ()

, 8

가 , 가
 가 , 61
 1

7.3. Specific end use(s)

가 , 가 . 3

Hot surfaces, Sparks,

가 , (60% ,)

8.

8.1. , (OEL) (ACGIH)

(ACGIH)

| | ppm | mg/m ³ | ppm | mg/m ³ |
|-----------------------|-----|-------------------|-----|-------------------|
| Methyl isoamyl ketone | - | - | 50 | 234 |
| Mica | - | - | - | 3 |
| n-Butanol | 50 | 152 | - | - |
| xylene | 150 | 651 | 100 | 434 |

(P) (Peak exposure limit)

(R)

(Sk)

(Sen)

(Cat 1)

(Cat 2) 가

(Cat 3)

8.2.

가

가

(visor)

(overall)

가

가

.가

가

9.

pH

/ (°C)

(°C)

116

26

(= 1)

(,)

/

: 1.05 (Methyl isoamyl ketone)

: 6.6 (xylene)

(Pa)

1.46

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

2

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| | 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) - (25068-38-6) | 2,000.00, | 2,000.00, | | |
| Iron(III) oxide - (1317-61-9) | 10,000.00, | | | |
| Methyl isoamyl ketone - (110-12-3) | 3,200.00, | 8,110.00, | | |
| n-Butanol - (71-36-3) | 2,292.00, | 3,430.00, | | |
| Solvent naphtha (petroleum), light | 6,800.00, | 3,400.00, | | |

| | | | |
|-------------------------|-----------|-----------|--------|
| aromatic - (64742-95-6) | | | |
| 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 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 | |
| Iron(III) oxide - (1317-61-9) | 1,000.00, Leuciscus idus | | |
| Solvent naphtha (petroleum), light aromatic - (64742-95-6) | 9.22, Oncorhynchus mykiss | 6.14, Daphnia magna | 19.00 (72 hr), Selenastrum capricornutum |
| Methyl isoamyl ketone - (110-12-3) | 159.00, Pimephales promelas | 560.00, Daphnia magna | 920.00 (72 hr), Chlorococcales |
| 1,2,4-trimethylbenzene - (95-63-6) | 7.72, Pimephales promelas | 3.60, Daphnia magna | |
| xylene - (1330-20-7) | 3.30, Oncorhynchus mykiss | 8.50, Palaemonetes pugio | 100.00 (72 hr), Chlorococcales |
| n-Butanol - (71-36-3) | 1,376.00, Pimephales promelas | 1,328.00, Daphnia magna | 500.00 (96 hr), Scenedesmus subspicatus |

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.

SDS

Section 3 Phrases

- H226
- H302
- H304
- H312
- H315
- H317
- H318
- H319
- H332
- H335
- H336
- H372
- H411

SDS



Akzo Nobel

가