

HAR41M INTERTHERM 875 BLUE

1

11/17/14

1.

1.1. INTERTHERM 875 BLUE  
HAR41M

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 ;H335

3;H412

2.2.

11 , 12



H315  
H319  
H335  
H412

[ ]:

P210 / / /  
P261 / /가 / / /  
P264  
P271 가  
P273  
P280 / / /

[ ]:

P302+352 :  
P303+361+353 ( ) :  
/ /  
P304+312 : /  
P305+351+338 가 : .가  
P312 /  
P321 ( ).  
P337+313 : /  
P340 가  
P362  
P370 :  
P378 , , ,

[ ]:

P403+233 가  
P405 가

[ ]:

P501 ( )

2.3. PBT ( , ) vPvB ( , )

3.

/	%	GHS	
xylene CAS No: 0001330-20-7	30-40	3; H226 - 4;H312 - 4;H332 / 2;H315 / 2AIH319 -1 ;H336 - 1;H372	[1][2]
Ethylbenzene CAS No: 0000100-41-4	5-10	2;H225 - 4;H332 - 3;H373 1;H304 / 2;H315 / 2;H319 -1 ;H335	[1][2]
Titanium dioxide CAS No: 0013463-67-7	2.5-5		[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]
	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.

( )

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<sup>3</sup>

ppm

mg/m<sup>3</sup>

**Barium Sulphate**

**2**

**10**

**Ethylbenzene**

**125**

**545**

**100**

**435**

**n-Butanol**

**C50**

**C150**

**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)

116

24

( = 1)

( , )

/

: 1.1 ( xylene )

: 6.6 ( xylene )

(Pa)

1.12

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

가

2

	LD50, mg/kg	LD50, mg/kg	LD50, mg/L/4hr	/ LD50, mg/L/4hr
Ethylbenzene - (100-41-4)	3,500.00,	15,433.00,	17.20,	
n-Butanol - (71-36-3)	2,292.00,	3,430.00,		
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 )	3	.
( )		

**12.**

**12.1.**

1999/45/EC 가 ,

가

	96 hr LC50 mg/l ,	49 hr EC50 mg/l ,	ErC50 mg/l ,
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
Titanium dioxide - (13463-67-7)	1,000.00, Fundulus heteroclitus	5.50, Daphnia magna	5.83 (72 hr), Pseudokirchneriella subcapitata
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 :

14.6. 가 가

14.7. MARPOL73/78 Annex II IBC Code .

15.

4 , 2 , III

MSDS 8 .

n-Butanol (0000071-36-3)  
Ethylbenzene (0000100-41-4)  
Titanium dioxide (0013463-67-7)

(CMR):

carbon black (0001333-86-4)  
Silica(quartz) (0014808-60-7)  
Ethylbenzene (0000100-41-4)  
Titanium dioxide (0013463-67-7)

:

n-Butanol (0000071-36-3)  
Ethylbenzene (0000100-41-4)  
Titanium dioxide (0013463-67-7)

xylene (0001330-20-7)

:

n-Butanol (0000071-36-3)

Ethylbenzene (0000100-41-4)

xylene (0001330-20-7)

가

:

( )

:

( )

:

( )

:

( )

**Group I:**

( )

**Group II:**

Barium Sulphate (0007727-43-7)

Ethylbenzene (0000100-41-4)

xylene (0001330-20-7)

:

( )

( )

:

( )

**16.**

: 11/17/2014

: 1

: 11/14/2014

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

SDS

Section 3

Phrases

H225

H226

H302

H304

H312

H315

H318

H319

H332

H335

H336

H372

H373

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



Akzo Nobel

가