

: 15.02.2017

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IVM Chemicals Srl  
Viale della Stazione 3 -27020 Parona (PV)Italy -Tel +39 038425441

Environmental Health and safety office  
hseoffice@ivmchemicals.com

· 1.4

8.30 17.30 0039 038 425 441

: 0039 0384 254491

**2**

· 2.1

( ) 1272/2008



Flam. Liq. 2 H225



Repr. 2 H361d  
STOT RE 2 H373

Asp. Tox. 1 H304



Skin Irrit. 2 H315  
Eye Irrit. 2 H319  
Skin Sens. 1 H317  
STOT SE 3 H335-H336

· 2.2

(EC) 1272/2008

(CLP).

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**TX90**

( 1)



Homopolymers of HDI  
toluene  
ethyl acetate  
n-butyl acetate

H225  
H315  
H319  
H317  
H361d  
H335-H336

H373

H304

P210 / / /

P301+P310 :

P303+P361+P353 ( / ):

P305+P351+P338 :

P405  
P501 /

EUH204

2.3

**PBT** ( ) **vPvB**

PBT:  
vPvB:

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( 2)		
CAS: 28182-81-2 NLP: 500-060-2 Reg.nr.: 01-2119485796-17-XXXX	Homopolymers of HDI ⚠ Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	25-29,99%
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46-XXXX	ethyl acetate ⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	25-29,99%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29-XXXX	n-butyl acetate ⚠ Flam. Liq. 3, H226 ⚠ STOT SE 3, H336	20-<25%
CAS: 108-88-3 EINECS: 203-625-9 Reg.nr.: 01-2119471310-51-XXXX	toluene ⚠ Flam. Liq. 2, H225 ⚠ Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H336 Aquatic Chronic 3, H412	10-14,99%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29-XXXX	2-methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226	2,5-4,99%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-XXXX	xylene ⚠ Flam. Liq. 3, H226 ⚠ STOT RE 2, H373; Asp. Tox. 1, H304 ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	2,5-4,99%
CAS: 822-06-0 EINECS: 212-485-8 Reg.nr.: 01-2119457571-37-XXXX	hexamethylene diisocyanate ⚠ Acute Tox. 1, H330 ⚠ Resp. Sens. 1, H334 ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	0,1-<0,5%

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<b>141-78-6 ethyl acetate</b>	
PDK	: 200 /m <sup>3</sup> : 50 /m <sup>3</sup>
<b>123-86-4 n-butyl acetate</b>	
PDK	: 200 /m <sup>3</sup> : 50 /m <sup>3</sup>
<b>108-88-3 toluene</b>	
PDK	: 150 /m <sup>3</sup> : 50 /m <sup>3</sup>
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
PDK	: 10 /m <sup>3</sup>

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<b>1330-20-7 xylene</b>		
PDK	: 150 /m <sup>3</sup> : 50 /m <sup>3</sup>	/
<b>822-06-0 hexamethylene diisocyanate</b>		
PDK	: 0,05 /m <sup>3</sup>	/
<b>DNEL</b>		
<b>28182-81-2 Homopolymers of HDI</b>		
( )	DNEL acuto/agudo/ostre/ aigu/acute/akut DNEL	1 /mc ( ) 0,5 /mc ( )
<b>141-78-6 ethyl acetate</b>		
( )	DNEL	4, 5 / bw / d (popolazione)
( )	DNEL acuto/agudo/ostre/ aigu/acute/akut	1468 /mc ( ) 734 /mc (popolazione)
	DNEL	734 /mc ( )
	DNEL	367 /mc (popolazione)
	DNEL	6 3 / bw / d ( ) 37 / bw/d (popolazione)
<b>123-86-4 n-butyl acetate</b>		
( )	DNEL acuto/agudo/ostre/ aigu/acute/akut	960 /mc ( ) 859,7 /mc (popolazione)
	DNEL	480 /mc ( ) 102,34 /mc (popolazione)
<b>108-88-3 toluene</b>		
( )	DNEL acuto/agudo/ostre/ aigu/acute/akut	384 /mc ( )
	DNEL	192 /mc ( )
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>		
( )	DNEL	275 /mc ( )
	DNEL	1 5 3, 5 / bw / d ( )
<b>1330-20-7 xylene</b>		
( )	DNEL acuto/agudo/ostre/ aigu/acute/akut	289 /mc ( )
	DNEL	77 /mc ( )
	DNEL	1 8 0 / bw / d ( )
<b>822-06-0 hexamethylene diisocyanate</b>		
( )	DNEL acuto/agudo/ostre/ aigu/acute/akut	0,07 /mc ( )
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	DNEL	0,035 /mc ( ) <sup>6)</sup>
<b>PNEC</b>		
<b>28182-81-2 Homopolymers of HDI</b>		
PNEC Acqua dolce/water/woda słodka/eau/agua	0,127	/L ( )
<b>141-78-6 ethyl acetate</b>		
PNEC Acqua dolce/water/woda słodka/eau/agua	0,26	/L ( )
PNEC Suolo/earth/suelo/sol/gleba/	0,24	/ ( )
<b>123-86-4 n-butyl acetate</b>		
PNEC Acqua dolce/water/woda słodka/eau/agua	0,18	/L ( )
PNEC Suolo/earth/suelo/sol/gleba/	0,0903	/ ( )
<b>108-88-3 toluene</b>		
PNEC Acqua dolce/water/woda słodka/eau/agua	0,68	/L ( )
PNEC Suolo/earth/suelo/sol/gleba/	2,89	/ ( )
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>		
PNEC Acqua dolce/water/woda słodka/eau/agua	0,635	/L ( )
PNEC Suolo/earth/suelo/sol/gleba/	0,29	/ ( )
<b>1330-20-7 xylene</b>		
PNEC Acqua dolce/water/woda słodka/eau/agua	0,327	/L ( )
PNEC Suolo/earth/suelo/sol/gleba/	2,31	/ ( )
<b>822-06-0 hexamethylene diisocyanate</b>		
PNEC Acqua dolce/water/woda słodka/eau/agua	0,075	/L ( )
PNEC Suolo/earth/suelo/sol/gleba/	0,0027	/ ( )

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**pH:**

77 °C

-4 °C

315 °C

1,1 %

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	( 8)
:	11,5 %
20 °C:	97
20 °C:	0,937 /cm <sup>3</sup>
/	
(n- /	
):	
20 °C:	29 s (ISO 3 mm)
( +	
VOC (EC)	70,10 % 656,8 /
9.2 :	29,9 %

**10**

- 10.1
- 10.2
- 10.3
- 10.4
- 10.5
- 10.6

**11**

- 11.1

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LD/LC50 ( / ),		
<b>28182-81-2 Homopolymers of HDI</b>		
( )	LD50	2501 / (rat/szczur/mouse/souris/Maus/rat n)
( )	LD50	2001 / (rabbit/kr lik/Kaninchen/conejo/lapin)
<b>141-78-6 ethyl acetate</b>		
( )	LD50	4934 / (rabbit/kr lik/Kaninchen/conejo/lapin)
( )	LD50	20001 / (rabbit/kr lik/Kaninchen/conejo/lapin)
( )	LC50/4	1600 / (rat/szczur/mouse/souris/Maus/rat n)
	LC0	22,6 ppm (mouse)
<b>123-86-4 n-butyl acetate</b>		
( )	LD50	10760 / (rat/szczur/mouse/souris/Maus/rat n)
( )	LD50	14000 / (rabbit/kr lik/Kaninchen/conejo/lapin)
( )	LC50/4	21,1 / (rat/szczur/mouse/souris/Maus/rat n)
<b>108-88-3 toluene</b>		
( )	LD50	5000 / (rat/szczur/mouse/souris/Maus/rat n)
( )	LD50	12124 / (rabbit/kr lik/Kaninchen/conejo/lapin)
( )	LC50/4	25,7 / (rat/szczur/mouse/souris/Maus/rat n)
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>		
( )	LD50	8532 / (rat/szczur/mouse/souris/Maus/rat n)
( )	LD50	5001 / (rabbit/kr lik/Kaninchen/conejo/lapin)
( )	LC50/4	35,7 / (rat/szczur/mouse/souris/Maus/rat n)
<b>1330-20-7 xylene</b>		
( )	LD50	3523 / (rat/szczur/mouse/souris/Maus/rat n)
( )	LD50	1701 / (rabbit/kr lik/Kaninchen/conejo/lapin)
<b>822-06-0 hexamethylene diisocyanate</b>		
( )	LD50	738 / (rat/szczur/mouse/souris/Maus/rat n)
( )	LD50	593 / (rat/szczur/mouse/souris/Maus/rat n)
( )	LC50/4	0,124 / (rat/szczur/mouse/souris/Maus/rat n)

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<b>28182-81-2 Homopolymers of HDI</b>	
EC50	1001 / ( ) (72 .)
	127 / (daphnia) (48 .)
LC50 (96 .)	100 / ( )
<b>141-78-6 ethyl acetate</b>	
EC50	165 / (daphnia) (48 .)
LC50 (96 .)	230 / ( )
<b>123-86-4 n-butyl acetate</b>	
EC50	648 / ( ) (72 .)
	44 / (daphnia) (48 .)
LC50 (96 .)	18 / ( )
<b>108-88-3 toluene</b>	
EC50	134 / ( ) (3 .)
	3,78 / (daphnia) (48 .)
	58 / ( )
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
EC50	1001 / ( ) (72 .)
	501 / (daphnia) (48 .)
LC50 (96 .)	134 / ( )
<b>822-06-0 hexamethylene diisocyanate</b>	
EC50	77,5 / ( ) (72 .)
	89,2 / (daphnia) (48 .)
LC50 (96 .)	82,9 / ( )

· 12.2

Toluene CAS n. 108-88-3  
( OECD)

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2 ( - ):

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**PBT** (

) vPvB (

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· PBT:

· vPvB:

· 12.6

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**13**

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**14**

· 14.1 **UN**  
· ADR, IMDG, IATA

UN1263

· 14.2  
· ADR  
· IMDG, IATA

UN1263 , 640D  
PAINT

· 14.3  
· ADR, IMDG, IATA



3  
3

· 14.4  
· ADR, IMDG, IATA

II

· 14.5

· 14.6

· EMS: ( ):  
· Stowage Category

33  
F-E, S-E  
B

· 14.7

MARPOL73/78 ( )  
) IBC Code ( )

II

( 13)

**TX90**

( 12)

· **ADR**

(LQ)

5L

(EQ)

: E2

: 30

: 500

2

D/E

· **IMDG**

· Limited quantities (LQ)

· Excepted quantities (EQ)

5L

Code: E2

Maximum net quantity per inner packaging: 30

Maximum net quantity per outer packaging: 500

· UN "Model Regulation":

UN 1263

640D, 3, II

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· **15.1**

1907/2006 1272/2008  
2012/18/EU

1: 5000

2: 50000

· **P**

· **15.2**

**16**

H225

H226

H302

H304

H312

H315

H317

H319

H330

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**TX90**

H332

H334

H335

H336

H361d

H373

H412

: IVM Chemicals Srl

: Carlo Porta

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 2: Flammable liquids . Category 2  
Flam. Liq. 3: Flammable liquids . Category 3  
Acute Tox. 1: Acute toxicity . Category 1  
Acute Tox. 4: Acute toxicity . Category 4  
Skin Irrit. 2: Skin corrosion/irritation . Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation . Category 2  
Resp. Sens. 1: Respiratory sensitisation . Category 1  
Skin Sens. 1: Skin sensitisation . Category 1  
Repr. 2: Reproductive toxicity . Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) . Category 3  
STOT RE 2: Specific target organ toxicity (repeated exposure) . Category 2  
Asp. Tox. 1: Aspiration hazard . Category 1  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard . Category 3

1272/2008/EC

ECHA -

INRS Fiche Toxicologique

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