

: 22.03.2017

: 17.03.2017

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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

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8.30 17.30 0039 038 425 441

: 0039 0384 254491

**2**

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( ) 1272/2008



Flam. Liq. 2 H225



Repr. 2 H361d  
STOT RE 2 H373



Eye Dam. 1 H318



Skin Irrit. 2 H315  
STOT SE 3 H335-H336

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(EC) 1272/2008

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2-methylpropan-1-ol  
toluene  
xylene  
ethyl acetate

H225  
H315  
H318  
H361d  
H335-H336

H373

P210 / / /

P303+P361+P353 ( ):

P305+P351+P338 : /

P310 /  
P405  
P501 /

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**PBT** ( )

) **vPvB**

· **PBT:**  
· **vPvB:**

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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	15-19,99%
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	10-14,99%
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	5-9,99%
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	5-9,99%
CAS: 78-83-1 EINECS: 201-148-0 Reg.nr.: 01-2119484609-23-XXXX	2-methylpropan-1-ol Flam. Liq. 3, H226 Eye Dam. 1, H318 Skin Irrit. 2, H315; STOT SE 3, H335-H336	5-9,99%
CAS: 110-19-0 EINECS: 203-745-1 Reg.nr.: 01-2119488971-22-XXXX	isobutyl acetate Flam. Liq. 2, H225 STOT SE 3, H336	2,5-4,99%
CAS: 123-42-2 EINECS: 204-626-7	4-hydroxy-4-methylpentan-2-one Flam. Liq. 3, H226 Eye Irrit. 2, H319; STOT SE 3, H335	2,5-4,99%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-XXXX	acetone Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	2,5-4,99%
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119488216-32-XXXX	ethylbenzene Flam. Liq. 2, H225 STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H332	2,5-4,99%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25-XXXX	propan-2-ol Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	2,5-4,99%

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<b>108-88-3 toluene</b>	
PDK	: 150 /m <sup>3</sup> : 50 /m <sup>3</sup>
/	
<b>1330-20-7 xylene</b>	
PDK	: 150 /m <sup>3</sup> : 50 /m <sup>3</sup>
/	
<b>141-78-6 ethyl acetate</b>	
PDK	: 200 /m <sup>3</sup> : 50 /m <sup>3</sup>
/	

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<b>123-86-4 n-butyl acetate</b>		(	5)
PDK	: 200 /m <sup>3</sup> : 50 /m <sup>3</sup>	/	
<b>78-83-1 2-methylpropan-1-ol</b>			
PDK	: 10 /m <sup>3</sup>	/	
<b>123-42-2 4-hydroxy-4-methylpentan-2-one</b>			
PDK	: 100 /m <sup>3</sup>	/	
<b>67-64-1 acetone</b>			
PDK	: 800 /m <sup>3</sup> : 200 /m <sup>3</sup>	/	
<b>100-41-4 ethylbenzene</b>			
PDK	: 150 /m <sup>3</sup> : 50 /m <sup>3</sup>	/	
<b>67-63-0 propan-2-ol</b>			
PDK	: 50 /m <sup>3</sup> : 10 /m <sup>3</sup>	/	
<b>DNEL</b>			
<b>108-88-3 toluene</b>			
( )	DNEL acuto/agudo/ostre/ aigu/acute/akut	384 /mc ( )	
	DNEL	192 /mc ( )	
<b>1330-20-7 xylene</b>			
( )	DNEL acuto/agudo/ostre/ aigu/acute/akut	289 /mc ( )	
	DNEL	77 /mc ( )	
	DNEL	1 8 0 / b w / d ( )	
<b>141-78-6 ethyl acetate</b>			
( )	DNEL	4 , 5 / b w / d (popolazione)	
( )	DNEL acuto/agudo/ostre/ aigu/acute/akut	1468 /mc ( )	
	DNEL	734 /mc (popolazione)	
	DNEL	734 /mc ( )	
	DNEL	367 /mc (popolazione)	
	DNEL	6 3 / b w / d ( )	
		37 / bw/d (popolazione)	
<b>123-86-4 n-butyl acetate</b>			
( )	DNEL acuto/agudo/ostre/ aigu/acute/akut	960 /mc ( )	
		(	7)

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	DNEL	859,7 /mc (popolazione) 480 /mc ( ) 102,34 /mc (popolazione)
<b>78-83-1 2-methylpropan-1-ol</b>		
( )	DNEL	310 /mc ( )
<b>110-19-0 isobutyl acetate</b>		
( )	DNEL	243 /mc ( )
	DNEL	4,95 / b w / d ( )
<b>123-42-2 4-hydroxy-4-methylpentan-2-one</b>		
( )	DNEL acuto/agudo/ostre/ aigu/acute/akut	240 /mc ( )
	DNEL	66,4 /mc ( )
	DNEL	9,4 / b w / d ( )
<b>67-64-1 acetone</b>		
( )	DNEL	62 / b w / d (popolazione)
( )	DNEL acuto/agudo/ostre/ aigu/acute/akut	2420 /mc ( )
	DNEL	1210 /mc ( )
	DNEL	200 /mc (popolazione)
	DNEL	186 / b w / d ( )
	DNEL	62 / b w / d (popolazione)
<b>100-41-4 ethylbenzene</b>		
( )	DNEL acuto/agudo/ostre/ aigu/acute/akut	293 /mc ( )
	DNEL	77 /mc ( )
	DNEL	180 / b w / d ( )
<b>67-63-0 propan-2-ol</b>		
( )	DNEL	26 / b w / d (popolazione)
( )	DNEL	500 /mc ( )
	DNEL	89 /mc (popolazione)
	DNEL	888 / b w / d ( )
	DNEL	319 / b w / d (popolazione)

**PNEC**

**108-88-3 toluene**

PNEC Acqua dolce/water/woda sjođka/eau/agua	0,68 /L ( )
PNEC Suolo/earth/suelo/sol/gleba/	2,89 / ( )

**1330-20-7 xylene**

PNEC Acqua dolce/water/woda sjođka/eau/agua	0,327 /L ( )
PNEC Suolo/earth/suelo/sol/gleba/	2,31 / ( )

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<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>78-83-1 2-methylpropan-1-ol</b>	
PNEC Acqua dolce/water/woda słodka/eau/agua	0,4 /L ( )
PNEC Suolo/earth/suelo/sol/gleba/	0,0699 / ( )
<b>110-19-0 isobutyl acetate</b>	
PNEC Acqua dolce/water/woda słodka/eau/agua	0,17 /L ( )
PNEC Suolo/earth/suelo/sol/gleba/	0,0755 / ( )
<b>67-64-1 acetone</b>	
PNEC Acqua dolce/water/woda słodka/eau/agua	10,6 /L ( )
PNEC Suolo/earth/suelo/sol/gleba/	29,5 / ( )
<b>100-41-4 ethylbenzene</b>	
PNEC Acqua dolce/water/woda słodka/eau/agua	0,1 /L ( )
PNEC Suolo/earth/suelo/sol/gleba/	2,68 / ( )
<b>67-63-0 propan-2-ol</b>	
PNEC Acqua dolce/water/woda słodka/eau/agua	140,9 /L ( )
PNEC Suolo/earth/suelo/sol/gleba/	28 / ( )

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*pH:*

56 °C

-17 °C

370 °C

1,0 %

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(	9)
:	13,0 %
20 °C:	233
20 °C:	0,935 /cm <sup>3</sup>
/	
(n-	/
):	
20 °C:	55 s (ISO 6 mm)
(	+
VOC (EC)	74,29 % 694,6 /
9.2	25,7 %

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<b>LD/LC50 ( / ),</b>		
<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>1330-20-7 xylene</b>		
( )	LD50	3523 / (rat/szczur/mouse/souris/Maus/rat n)
( )	LD50	1701 / (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>78-83-1 2-methylpropan-1-ol</b>		
( )	LD50	2460 / (rat/szczur/mouse/souris/Maus/rat n)
( )	LD50	3400 / (rabbit/kr lik/Kaninchen/conejo/lapin)
( )	LC50	18,2 / (rat/szczur/mouse/souris/Maus/rat n) (6 .)
<b>110-19-0 isobutyl acetate</b>		
( )	LD50	13400 / (rat/szczur/mouse/souris/Maus/rat n)
( )	LD50	17401 / (rabbit/kr lik/Kaninchen/conejo/lapin)
( )	LC50/4	31 / (rat/szczur/mouse/souris/Maus/rat n)
<b>123-42-2 4-hydroxy-4-methylpentan-2-one</b>		
( )	LD50	3002 / (rat/szczur/mouse/souris/Maus/rat n)
( )	LD50	13630 / (rab)
<b>67-64-1 acetone</b>		
( )	LD50	5800 / (rat/szczur/mouse/souris/Maus/rat n)
( )	LD50	20000 / (rabbit/kr lik/Kaninchen/conejo/lapin)
( )	LC50/4	76 / (rat/szczur/mouse/souris/Maus/rat n)
<b>100-41-4 ethylbenzene</b>		
( )	LD50	3500 / (rat/szczur/mouse/souris/Maus/rat n)
( )	LD50	15486 / (rabbit/kr lik/Kaninchen/conejo/lapin)
( )	LC50/4	17,2 / (rat/szczur/mouse/souris/Maus/rat n)
<b>67-63-0 propan-2-ol</b>		
( )	LD50	4710 / (rat/szczur/mouse/souris/Maus/rat n)

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( )	LD50	12800 / (rabbit/kr lik/Kaninchen/conejo/lapin)
( )	LC50/4	72,6 / (rat/szczur/mouse/souris/Maus/rat n)

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<b>108-88-3 toluene</b>		
EC50	134 / ( ) (3 .)	3,78 / (daphnia) (48 .)
		58 / ( )
<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>78-83-1 2-methylpropan-1-ol</b>		
EC50	1799 / ( ) (72 .)	1100 / (daphnia) (48 .)
LC50 (96 .)	1430 / ( )	
<b>110-19-0 isobutyl acetate</b>		
EC50	370 / ( ) (72 .)	25 / (daphnia)
LC50 (96 .)	17 / ( )	
<b>123-42-2 4-hydroxy-4-methylpentan-2-one</b>		
EC50	1001 / ( ) (72 .)	1000 / (daphnia) (48 .)
LC50 (96 .)	101 / ( )	
<b>67-64-1 acetone</b>		
EC50	8800 / (daphnia)	
LC50 (96 .)	5540 / ( )	
<b>100-41-4 ethylbenzene</b>		
EC50	75 / (daphnia) (48 .)	
<b>67-63-0 propan-2-ol</b>		
EC50	1001 / ( ) (72 .)	10000 / (daphnia) (24 .)

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LC50 (96 h) 9640 / ( )

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Toluene CAS n. 108-88-3  
OECD)

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· PBT:

· vPvB:

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**UN**

· ADR, IMDG, IATA

UN1263

· 14.2

· ADR

· IMDG, IATA

UN1263

PAINT

640D

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· ADR, IMDG, IATA



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· <b>14.4</b> · <i>ADR, IMDG, IATA</i>	II
· <b>14.5</b> · :	:
· <b>14.6</b> · :	:
· <i>EMS:</i> · <i>Stowage Category</i>	33 F-E, S-E B
· <b>14.7</b> <b>MARPOL73/78</b> ( ) <b>IBC Code</b> ( )	II
· <i>ADR</i> · (LQ) · (EQ)	5L : E2
	: 30
	: 500
· <i>IMDG</i> · <i>Limited quantities (LQ)</i> · <i>Excepted quantities (EQ)</i>	5L Code: E2 Maximum net quantity per inner packaging: 30 Maximum net quantity per outer packaging: 500
· <i>UN "Model Regulation":</i>	UN 1263 640D, 3, II

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1907/2006 1272/2008  
2012/18/EU

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H225  
 H226  
 H304  
 H312  
 H315  
 H318  
 H319  
 H332  
 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. 4: Acute toxicity . Category 4

Skin Irrit. 2: Skin corrosion/irritation . Category 2

Eye Dam. 1: Serious eye damage/eye irritation . Category 1

Eye Irrit. 2: Serious eye damage/eye irritation . Category 2

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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