

: 02.04.2017

: 24.03.2017

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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

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( ) 1272/2008



Flam. Liq. 2 H225



Repr. 2 H361d  
STOT RE 2 H373



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

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(EC) 1272/2008

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: 02.04.2017

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**TA12**



toluene  
methyl methacrylate  
xylene  
n-butyl acetate  
2-hydroxyethyl methacrylate  
Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

H225  
H315  
H319  
H317  
H361d  
H336  
H373

P210 / / / ..

P241 /

P303+P361+P353 ( ):

P305+P351+P338 :

P405  
P501 /

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

PBT:  
vPvB:

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( 2)		
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	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	10-14,99%
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: 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: 110-19-0 EINECS: 203-745-1 Reg.nr.: 01-2119488971-22-XXXX	isobutyl acetate ⚠ Flam. Liq. 2, H225 ⚠ STOT SE 3, H336	5-9,99%
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: 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: 80-62-6 EINECS: 201-297-1 Reg.nr.: 01-2119452498-28-XXXX	methyl methacrylate ⚠ Flam. Liq. 2, H225 ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	1-2,499%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43-XXXX	butanone ⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	1-2,499%
CAS: 868-77-9 EINECS: 212-782-2 Reg.nr.: 01-2119490169-29-XXXX	2-hydroxyethyl methacrylate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	0,5-<1%
ELINCS: 400-830-7 Reg.nr.: 01-2119472279-28-XXXX	Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) ⚠ Aquatic Chronic 2, H411 ⚠ Skin Sens. 1, H317	0,5-<1%

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<b>123-86-4 n-butyl acetate</b>	
PDK	: 200 /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>
<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>108-65-6 2-methoxy-1-methylethyl acetate</b>	
PDK	: 10 /m <sup>3</sup>
<b>100-41-4 ethylbenzene</b>	
PDK	: 150 /m <sup>3</sup> : 50 /m <sup>3</sup>
<b>80-62-6 methyl methacrylate</b>	
PDK	: 20 /m <sup>3</sup> : 10 /m <sup>3</sup>
<b>78-93-3 butanone</b>	
PDK	: 400 /m <sup>3</sup> : 200 /m <sup>3</sup>

**DNEL**

<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>141-78-6 ethyl acetate</b>		
( )	DNEL	4,5 / b w / d (popolazione)
( )	DNEL acuto/agudo/ostre/ aigu/acute/akut	1468 /mc ( ) 734 /mc (popolazione)

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	DNEL	734 /mc ( )	6)
	DNEL	367 /mc (popolazione)	
	DNEL	63 / bw / d ( )	
	DNEL	37 / bw/d (popolazione)	
<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	180 / bw / d ( )	
<b>110-19-0 isobutyl acetate</b>			
( )	DNEL	243 /mc ( )	
	DNEL	4,95 / bw / d ( )	
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>			
( )	DNEL	275 /mc ( )	
	DNEL	153,5 / bw / d ( )	
<b>100-41-4 ethylbenzene</b>			
( )	DNEL acuto/agudo/ostre/aigu/acute/akut	293 /mc ( )	
	DNEL	77 /mc ( )	
	DNEL	180 / bw / d ( )	
<b>78-93-3 butanone</b>			
( )	DNEL	600 /mc ( )	
	DNEL	1161 / bw / d ( )	
<b>868-77-9 2-hydroxyethyl methacrylate</b>			
( )	DNEL	1,3 / bw / d ( )	
( )	DNEL	4,9 /mc ( )	
<b>Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)</b>			
( )	DNEL	0,35 /mc ( )	
	DNEL	0,5 / bw / d ( )	

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<i>PNEC</i>	
<b>123-86-4 n-butyl acetate</b>	
<i>PNEC Acqua dolce/water/woda słodka/eau/agua</i>	0,18 /L ( )
<i>PNEC Suolo/earth/suelo/sol/gleba/</i>	0,0903 / ( )
<b>141-78-6 ethyl acetate</b>	
<i>PNEC Acqua dolce/water/woda słodka/eau/agua</i>	0,26 /L ( )
<i>PNEC Suolo/earth/suelo/sol/gleba/</i>	0,24 / ( )
<b>108-88-3 toluene</b>	
<i>PNEC Acqua dolce/water/woda słodka/eau/agua</i>	0,68 /L ( )
<i>PNEC Suolo/earth/suelo/sol/gleba/</i>	2,89 / ( )
<b>1330-20-7 xylene</b>	
<i>PNEC Acqua dolce/water/woda słodka/eau/agua</i>	0,327 /L ( )
<i>PNEC Suolo/earth/suelo/sol/gleba/</i>	2,31 / ( )
<b>110-19-0 isobutyl acetate</b>	
<i>PNEC Acqua dolce/water/woda słodka/eau/agua</i>	0,17 /L ( )
<i>PNEC Suolo/earth/suelo/sol/gleba/</i>	0,0755 / ( )
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
<i>PNEC Acqua dolce/water/woda słodka/eau/agua</i>	0,635 /L ( )
<i>PNEC Suolo/earth/suelo/sol/gleba/</i>	0,29 / ( )
<b>100-41-4 ethylbenzene</b>	
<i>PNEC Acqua dolce/water/woda słodka/eau/agua</i>	0,1 /L ( )
<i>PNEC Suolo/earth/suelo/sol/gleba/</i>	2,68 / ( )
<b>78-93-3 butanone</b>	
<i>PNEC Acqua dolce/water/woda słodka/eau/agua</i>	55,8 /L ( )
<i>PNEC Suolo/earth/suelo/sol/gleba/</i>	22,5 / ( )
<b>868-77-9 2-hydroxyethyl methacrylate</b>	
<i>PNEC Acqua dolce/water/woda słodka/eau/agua</i>	0,482 /L ( )
<i>PNEC Suolo/earth/suelo/sol/gleba/</i>	0,476 / ( )
<b>Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)</b>	
<i>PNEC Acqua dolce/water/woda słodka/eau/agua</i>	0,0023 /L ( )
<i>PNEC Suolo/earth/suelo/sol/gleba/</i>	2 / ( )

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*pH:*

77 °C

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		(	9)
		-4 °C	
		315 °C	
		/	
		1,0 . %	
		12,5 . %	
20 °C:		105	
20 °C:		0,943 /cm <sup>3</sup>	
		/	
		(n-	/
		20 °C:	25 s (ISO 6 mm)
		(	+
· VOC (EC)		66,53 %	
		627,4 /	
· 9.2		33,5 %	

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LD/LC50 ( / ),		
<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>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>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>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>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>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>80-62-6 methyl methacrylate</b>		
( )	LD50	7872 / (rat/szczur/mouse/souris/Maus/rat n)

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( )	LD50	5001 / (rabbit/kr lik/Kaninchen/conejo/lapin)
( )	LC50/4	78 / (rat/szczur/mouse/souris/Maus/rat n)
<b>78-93-3 butanone</b>		
( )	LD50	2001 / (rat/szczur/mouse/souris/Maus/rat n)
( )	LD50	5001 / (rabbit/kr lik/Kaninchen/conejo/lapin)
( )	LC50	21 / (rat/szczur/mouse/souris/Maus/rat n)
<b>868-77-9 2-hydroxyethyl methacrylate</b>		
( )	LD50	5050 / (rat/szczur/mouse/souris/Maus/rat n)
<b>Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)</b>		
( )	LD50	5001 / (rat/szczur/mouse/souris/Maus/rat n) (OECD - 401)
( )	LD50	2001 / (rat/szczur/mouse/souris/Maus/rat n) (OECD - 402)
( )	LC50/4	5,9 / (mouse) (OCSE - 403)

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<b>123-86-4 n-butyl acetate</b>	
EC50	648 / ( ) (72 .)
	44 / (daphnia) (48 .)
LC50 (96 .)	18 / ( )
<b>141-78-6 ethyl acetate</b>	
EC50	165 / (daphnia) (48 .)
LC50 (96 .)	230 / ( )
<b>108-88-3 toluene</b>	
EC50	134 / ( ) (3 .)
	3,78 / (daphnia) (48 .)
	58 / ( )
<b>110-19-0 isobutyl acetate</b>	
EC50	370 / ( ) (72 .)
	25 / (daphnia)
LC50 (96 .)	17 / ( )
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
EC50	1001 / ( ) (72 .)

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LC50 (96 .)	501 / (daphnia) (48 .)	( 12)
	134 / ( )	
<b>100-41-4 ethylbenzene</b>		
EC50	75 / (daphnia) (48 .)	
<b>80-62-6 methyl methacrylate</b>		
EC50	170 / ( ) (72 .)	
LC50 (96 .)	191 / ( )	
<b>78-93-3 butanone</b>		
EC50	2029 / ( ) (96 .)	
	308 / (daphnia) (48 .)	
LC50 (96 .)	2993 / ( )	
<b>868-77-9 2-hydroxyethyl methacrylate</b>		
LC50 (96 .)	240 / ( )	
<b>Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)</b>		
EC50	101 / ( ) (72 .)	
	4 / (daphnia) (OECD linee guida 202 parte 1)	
LC50 (96 .)	2,8 / (Leuciscus idus melanotus) (OECD linee guida 203)	

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

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**· 14.1 UN**

· ADR, IMDG, IATA

UN1263

**· 14.2**

· ADR

· IMDG, IATA

UN1263

PAINT

640D

**· 14.3**

· ADR, IMDG, IATA



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**· 14.4**

· ADR, IMDG, IATA

II

**· 14.5**

**· 14.6**

· EMS: ( ):  
· Stowage Category

33

F-E, S-E

B

**· 14.7**

**MARPOL73/78 (**

**II**

**) IBC Code (**

**)**

· ADR

(LQ)

5L

(EQ)

: E2

: 30

: 500

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**· 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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1907/2006 1272/2008  
2012/18/EU

1: 5000

2: 50000

**· P**

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**16**

H225

H226

H304

H312

H315

H317

H319

H332

H335

H336

H361d

H373

H411

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

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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 Irrit. 2: Serious eye damage/eye irritation . Category 2  
 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 2: Hazardous to the aquatic environment - long-term aquatic hazard . Category 2  
 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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