

: 25.03.2017

: 16.03.2017

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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



Eye Dam. 1 H318



Skin Irrit. 2 H315  
STOT SE 3 H336

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(EC) 1272/2008

(CLP).

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GHS02 GHS05 GHS07 GHS08

toluene  
2-methylpropan-1-ol  
n-butyl acetate  
ethyl acetate

H225  
H315  
H318  
H361d  
H336  
H373

P210 / / /

P303+P361+P353 ( ):

P305+P351+P338 :

P310 /  
P405  
P501 /

EUH208 methyl 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), 2-hydroxyethyl methacrylate.

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PBT ( ) vPvB

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vPvB:

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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	15-19,99%
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	15-19,99%
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	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	5-9,99%
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	2,5-4,99%
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	2,5-4,99%
CAS: 110-19-0 EINECS: 203-745-1 Reg.nr.: 01-2119488971-22-XXXX	isobutyl acetate Flam. Liq. 2, H225 STOT SE 3, H336	1-2,499%
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	1-2,499%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29-XXXX	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226	1-2,499%
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	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	0,25-<0,5%

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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	( <sup>3)</sup> 0,1-<0,5%
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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>78-93-3 butanone</b>			
PDK		: 400 /m <sup>3</sup>	
	/	: 200 /m <sup>3</sup>	
<b>78-83-1 2-methylpropan-1-ol</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>108-65-6 2-methoxy-1-methylethyl acetate</b>			
PDK		: 10 /m <sup>3</sup>	
	/		
<b>80-62-6 methyl methacrylate</b>			
PDK		: 20 /m <sup>3</sup>	
	/	: 10 /m <sup>3</sup>	

**DNEL**

<b>123-86-4 n-butyl acetate</b>			
( )	DNEL acuto/agudo/ostre/aigu/acute/akut	960 /mc ( )	
	DNEL	859,7 /mc (popolazione)	
		480 /mc ( )	
		102,34 /mc (popolazione)	
<b>141-78-6 ethyl acetate</b>			
( )	DNEL	4,5 / b w / d	
		(popolazione)	

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( )	DNEL acuto/agudo/ostre/ aigu/acute/akut	1468 /mc ( ) 734 /mc (popolazione) DNEL 734 /mc ( ) 367 /mc (popolazione) DNEL 63 / bw / d ( ) 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>78-93-3 butanone</b>		
( )	DNEL	600 /mc ( )
	DNEL	1161 / bw / d ( )
<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 / 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>108-65-6 2-methoxy-1-methylethyl acetate</b>		
( )	DNEL	275 /mc ( )
	DNEL	153,5 / bw / d ( )
<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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<b>868-77-9 2-hydroxyethyl methacrylate</b>		( )	7)
( )	DNEL	1,3 / b w / d	( )
( )	DNEL	4,9 /mc ( )	

**PNEC**

**123-86-4 n-butyl acetate**

PNEC Acqua dolce/water/woda słodka/eau/agua	0,18 /L ( )
PNEC Suolo/earth/suelo/sol/gleba/	0,0903 / ( )

**141-78-6 ethyl acetate**

PNEC Acqua dolce/water/woda słodka/eau/agua	0,26 /L ( )
PNEC Suolo/earth/suelo/sol/gleba/	0,24 / ( )

**108-88-3 toluene**

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

**1330-20-7 xylene**

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

**78-93-3 butanone**

PNEC Acqua dolce/water/woda słodka/eau/agua	55,8 /L ( )
PNEC Suolo/earth/suelo/sol/gleba/	22,5 / ( )

**78-83-1 2-methylpropan-1-ol**

PNEC Acqua dolce/water/woda słodka/eau/agua	0,4 /L ( )
PNEC Suolo/earth/suelo/sol/gleba/	0,0699 / ( )

**110-19-0 isobutyl acetate**

PNEC Acqua dolce/water/woda słodka/eau/agua	0,17 /L ( )
PNEC Suolo/earth/suelo/sol/gleba/	0,0755 / ( )

**100-41-4 ethylbenzene**

PNEC Acqua dolce/water/woda słodka/eau/agua	0,1 /L ( )
PNEC Suolo/earth/suelo/sol/gleba/	2,68 / ( )

**108-65-6 2-methoxy-1-methylethyl acetate**

PNEC Acqua dolce/water/woda słodka/eau/agua	0,635 /L ( )
PNEC Suolo/earth/suelo/sol/gleba/	0,29 / ( )

**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)**

PNEC Acqua dolce/water/woda słodka/eau/agua	0,0023 /L ( )
PNEC Suolo/earth/suelo/sol/gleba/	2 / ( )

**868-77-9 2-hydroxyethyl methacrylate**

PNEC Acqua dolce/water/woda słodka/eau/agua	0,482 /L ( )
PNEC Suolo/earth/suelo/sol/gleba/	0,476 / ( )

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:	:	:	:
<b>pH:</b>		:	:
:	:	:	:
:	:	77 °C	:
:	:	-4 °C	:
:	:	:	:
:	:	315 °C	:
:	:	:	:
:	:	:	:
:	:	:	:
:	:	1,0 %	:
:	:	12,0 %	:
:	20 °C:	105	:
:	20 °C:	0,93 /cm <sup>3</sup>	:
:	:	:	:
:	:	:	:
:	:	:	:
:	:	(n- /	:
:	:	:	:
:	:	20 °C:	25 s (ISO 6 mm)
:	:	:	:
:	:	:	:
:	:	:	:
:	:	73,90 %	:
:	:	687,3 /	:
:	:	26,1 %	:
<b>9.2</b>	:	:	:

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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>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>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)

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( )	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>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>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>80-62-6 methyl methacrylate</b>		
( )	LD50	7872 / (rat/szczur/mouse/souris/Maus/rat n)
( )	LD50	5001 / (rabbit/kr lik/Kaninchen/conejo/lapin)
( )	LC50/4	78 / (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)
<b>868-77-9 2-hydroxyethyl methacrylate</b>		
( )	LD50	5050 / (rat/szczur/mouse/souris/Maus/rat n)

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<b>123-86-4 n-butyl acetate</b>		
EC50	648 / ( ) (72 .)	
	44 / (daphnia) (48 .)	
LC50 (96 .)	18 / ( )	

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**141-78-6 ethyl acetate**

EC50 165 / (daphnia) (48 .)

LC50 (96 .) 230 / ( )

**108-88-3 toluene**

EC50 134 / ( ) (3 .)

3,78 / (daphnia) (48 .)

58 / ( )

**78-93-3 butanone**

EC50 2029 / ( ) (96 .)

308 / (daphnia) (48 .)

LC50 (96 .) 2993 / ( )

**78-83-1 2-methylpropan-1-ol**

EC50 1799 / ( ) (72 .)

1100 / (daphnia) (48 .)

LC50 (96 .) 1430 / ( )

**110-19-0 isobutyl acetate**

EC50 370 / ( ) (72 .)

25 / (daphnia)

LC50 (96 .) 17 / ( )

**100-41-4 ethylbenzene**

EC50 75 / (daphnia) (48 .)

**108-65-6 2-methoxy-1-methylethyl acetate**

EC50 1001 / ( ) (72 .)

501 / (daphnia) (48 .)

LC50 (96 .) 134 / ( )

**80-62-6 methyl methacrylate**

EC50 170 / ( ) (72 .)

LC50 (96 .) 191 / ( )

**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)**

EC50 101 / ( ) (72 .)

4 / (daphnia) (OECD linee guida 202 parte 1)

LC50 (96 .) 2,8 / (Leuciscus idus melanotus) (OECD linee guida 203)

**868-77-9 2-hydroxyethyl methacrylate**

LC50 (96 .) 240 / ( )

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

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· ADR, IMDG, IATA

UN1263

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UN1263

640D

· IMDG, IATA

PAINT

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· ADR, IMDG, IATA



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· ADR, IMDG, IATA

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· EMS: ( ): 33  
· Stowage Category F-E, S-E  
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II

MARPOL73/78 ( )  
IBC Code ( )

· ADR

(LQ) 5L : E2  
(EQ)

: 30

: 500

2  
D/E

· IMDG

· Limited quantities (LQ) 5L  
· Excepted quantities (EQ) 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

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H225

H226

H304

H312

H315

H317

H318

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

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

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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