

: 14.02.2017

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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

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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

Asp. Tox. 1 H304



Skin Irrit. 2 H315  
Eye Irrit. 2 H319  
STOT SE 3 H336

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(EC) 1272/2008

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GHS02 GHS07 GHS08

toluene  
ethyl acetate  
n-butyl acetate  
butanone

H225  
H315  
H319  
H361d  
H336  
H373

H304

P210 / / /

P301+P310 :

P303+P361+P353 ( / ):

P305+P351+P338 :

P405  
P501 /

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

PBT:  
vPvB:

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CAS: 141-78-6	ethyl acetate	30-39,99%
EINECS: 205-500-4	Flam. Liq. 2, H225	
Reg.nr.: 01-2119475103-46-XXXX	Eye Irrit. 2, H319; STOT SE 3, H336	

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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	( 2) 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	20-<25%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29-XXXX	2-methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226	10-14,99%
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	5-9,99%

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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>
/	
<b>78-93-3 butanone</b>	
PDK	: 400 /m <sup>3</sup> : 200 /m <sup>3</sup>
/	

**DNEL**

<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 ( )

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		( ) <sup>5)</sup>
	DNEL	859,7 /mc (popolazione) 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 / b w / d ( )
<b>78-93-3 butanone</b>		
( )	DNEL	600 /mc ( )
	DNEL	1 1 6 1 / b w / d ( )

**PNEC**

**141-78-6 ethyl acetate**

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

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

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

**108-88-3 toluene**

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

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

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

**78-93-3 butanone**

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

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EN 374

89/686/



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pH:

77 °C

-4 °C

315 °C

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:	
1,2 . % 11,5 . %	
20 °C: 105	
20 °C: 0,871 /cm³	
:	
:	
/	
): (n- /	
:	
20 °C: 29 s (ISO 3 mm)	
:	
( +	
) 100,00 % · VOC (EC) 871,0 /	
· 9.2 -	

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· 10.1	
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/ , :	
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LD/LC50 ( / ),

**141-78-6 ethyl acetate**

( )	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)

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

( )	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)

**108-88-3 toluene**

( )	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)

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

( )	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)

**78-93-3 butanone**

( )	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)

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**141-78-6 ethyl acetate**

EC50	165 / (daphnia) (48 .)
LC50 (96 .)	230 / ( )

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

EC50 648 / ( ) (72 .)  
44 / (daphnia) (48 .)  
LC50 (96 .) 18 / ( )

**108-88-3 toluene**

EC50 134 / ( ) (3 .)  
3,78 / (daphnia) (48 .)  
58 / ( )

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

EC50 1001 / ( ) (72 .)  
501 / (daphnia) (48 .)  
LC50 (96 .) 134 / ( )

**78-93-3 butanone**

EC50 2029 / ( ) (96 .)  
308 / (daphnia) (48 .)  
LC50 (96 .) 2993 / ( )

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Toluene CAS n. 108-88-3  
OECD)

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2 ( - ):

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PBT (

) vPvB (

· PBT:

· vPvB:

· 12.6

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**· 14.1 UN**

· ADR, IMDG, IATA

UN1263

**· 14.2**

· ADR

UN1263

640D

· IMDG, IATA

PAINT

**· 14.3**

· ADR, IMDG, IATA



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**· 14.4**

· ADR, IMDG, IATA

II

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F-E, S-E

· EMS:

B

· Stowage Category

**· 14.7**

II

MARPOL73/78 (

) IBC Code (

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:

· ADR

(LQ)

5L

(EQ)

: E2

: 30

: 500

2

D/E

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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

**15**· **15.1**1907/2006 1272/2008  
2012/18/EU

1: 5000

2: 50000

· **P**· **15.2****16**

H225

H226

H304

H315

H319

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)

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PNEC: Predicted No-Effect Concentration (REACH) ( 12)  
 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  
 Skin Irrit. 2: Skin corrosion/irritation . Category 2  
 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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