

: 14.11.2016

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IVM Chemicals Srl
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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
STOT SE 3 H336

Aquatic Chronic 3 H412

· 2.2

(EC) 1272/2008

(CLP).

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toluene
ethyl acetate
butanone
n-butyl acetate

H225
H315
H319
H361d
H336
H373

H304
H412

P210

P301+P310

P303+P361+P353

P305+P351+P338

P405
P501

2.3

PBT (

) vPvB

PBT:

vPvB:

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108-88-3 toluene	
PDK	: 150 /m ³ : 50 /m ³
/	
141-78-6 ethyl acetate	
PDK	: 200 /m ³ : 50 /m ³
/	
78-93-3 butanone	
PDK	: 400 /m ³ : 200 /m ³
/	
123-86-4 n-butyl acetate	
PDK	: 200 /m ³ : 50 /m ³
/	
67-64-1 acetone	
PDK	: 800 /m ³ : 200 /m ³
/	
108-65-6 2-methoxy-1-methylethyl acetate	
PDK	: 10 /m ³
/	

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<i>DNEL</i>		(5)
108-88-3 toluene		
()	<i>DNEL acuto/agudo/ostre/aigu/acute/akut</i>	384 /mc ()
	<i>DNEL</i>	192 /mc ()
141-78-6 ethyl acetate		
()	<i>DNEL</i>	4,5 / bw/d (popolazione)
()	<i>DNEL acuto/agudo/ostre/aigu/acute/akut</i>	1468 /mc ()
		734 /mc (popolazione)
	<i>DNEL</i>	734 /mc ()
		367 /mc (popolazione)
	<i>DNEL</i>	63 / bw/d ()
		37 / bw/d (popolazione)
78-93-3 butanone		
()	<i>DNEL</i>	600 /mc ()
	<i>DNEL</i>	1161 / bw/d ()
123-86-4 n-butyl acetate		
()	<i>DNEL acuto/agudo/ostre/aigu/acute/akut</i>	960 /mc ()
		859,7 /mc (popolazione)
	<i>DNEL</i>	480 /mc ()
		102,34 /mc (popolazione)
67-64-1 acetone		
()	<i>DNEL</i>	62 / bw/d (popolazione)
()	<i>DNEL acuto/agudo/ostre/aigu/acute/akut</i>	2420 /mc ()
	<i>DNEL</i>	1210 /mc ()
		200 /mc (popolazione)
	<i>DNEL</i>	186 / bw/d ()
		62 / bw/d (popolazione)
108-65-6 2-methoxy-1-methylethyl acetate		
()	<i>DNEL</i>	275 /mc ()
	<i>DNEL</i>	153,5 / bw/d ()
<i>PNEC</i>		(7)
108-88-3 toluene		
<i>PNEC Acqua dolce/water/woda sjo'dka/eau/agua</i>	0,68	/L ()
<i>PNEC Suolo/earth/suelo/sol/gleba/</i>	2,89	/ ()
141-78-6 ethyl acetate		
<i>PNEC Acqua dolce/water/woda sjo'dka/eau/agua</i>	0,26	/L ()

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<i>PNEC Suolo/earth/suelo/sol/gleba/</i>	0,24 / ()
78-93-3 butanone	
<i>PNEC Acqua dolce/water/woda słodka/eau/agua</i>	55,8 /L ()
<i>PNEC Suolo/earth/suelo/sol/gleba/</i>	22,5 / ()
123-86-4 n-butyl acetate	
<i>PNEC Acqua dolce/water/woda słodka/eau/agua</i>	0,18 /L ()
<i>PNEC Suolo/earth/suelo/sol/gleba/</i>	0,0903 / ()
67-64-1 acetone	
<i>PNEC Acqua dolce/water/woda słodka/eau/agua</i>	10,6 /L ()
<i>PNEC Suolo/earth/suelo/sol/gleba/</i>	29,5 / ()
108-65-6 2-methoxy-1-methylethyl acetate	
<i>PNEC Acqua dolce/water/woda słodka/eau/agua</i>	0,635 /L ()
<i>PNEC Suolo/earth/suelo/sol/gleba/</i>	0,29 / ()

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pH:

56 °C

-17 °C

315 °C

1,2 . %
13,0 . %

20 °C: 233

20 °C: 0,876 /cm³

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· 20 °C:	29 s (ISO 3 mm)
· VOC (EC)	100,00 % 878,8 /
· 9.2	-

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LD/LC50 (/),		
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)
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)

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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)
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)
67-64-1 acetone		
()	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)
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)

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108-88-3 toluene	
EC50	134 / () (3 .)
	3,78 / (daphnia) (48 .)
	58 / ()
141-78-6 ethyl acetate	
EC50	165 / (daphnia) (48 .)
LC50 (96 .)	230 / ()
78-93-3 butanone	
EC50	2029 / () (96 .)
	308 / (daphnia) (48 .)
LC50 (96 .)	2993 / ()
123-86-4 n-butyl acetate	
EC50	648 / () (72 .)
	44 / (daphnia) (48 .)
LC50 (96 .)	18 / ()
67-64-1 acetone	
EC50	8800 / (daphnia)

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LC50 (96 .)	5540 / ()	(10)
108-65-6 2-methoxy-1-methylethyl acetate		
EC50	1001 / () (72 .)	
	501 / (daphnia) (48 .)	
LC50 (96 .)	134 / ()	

· 12.2

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

· 12.3

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2 (-):

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PBT ()

) vPvB ()

· PBT:

· vPvB:

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UN

· ADR, IMDG, IATA

UN1263

· 14.2

· ADR

UN1263

· IMDG, IATA

PAINT

640D

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· ADR, IMDG, IATA



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· 3

· 14.4

· ADR, IMDG, IATA

II

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· 14.6

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

· 14.7

II

MARPOL73/78 (

) IBC Code (

)

· / :

· ADR

· (LQ) 5L : E2
· (EQ)

: 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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2012/18/EU

1: 5000

2: 50000

1907/2006 1272/2008

· P

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· *Annex XIV REACH ("Authorisation List")*

· 15.2

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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)

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

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

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Asp. Tox. 1: Aspiration hazard . Category 1 (13)
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard . Category 3

1272/2008/EU
67/548/
ECHA -
INRS Fiche Toxicologique
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