

: 02.04.2017

: 31.03.2017

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· 1.3

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

· 2.1

() 1272/2008



Flam. Liq. 2 H225



Repr. 2 H361d



Eye Irrit. 2 H319

STOT SE 3 H336

· 2.2

(EC) 1272/2008

(CLP).



GHS02



GHS07



GHS08

toluene

2)

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ethyl acetate
isobutyl acetate
butanone

H225
H319
H361d
H336

P210 / / /

P241 /

P303+P361+P353 ():

P305+P351+P338 :

P405
P501 /

2.3

PBT ()

vPvB

PBT:
vPvB:

3 /

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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: 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: 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%
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: 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%

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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% ²⁾
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	3-4,99%
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%
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	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%

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7.3	(,) (4)
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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
/	
1330-20-7 xylene	
PDK	: 150 /m ³ : 50 /m ³
/	
108-65-6 2-methoxy-1-methylethyl acetate	
PDK	: 10 /m ³
/	
108-88-3 toluene	
PDK	: 150 /m ³ : 50 /m ³
/	
67-63-0 propan-2-ol	
PDK	: 50 /m ³ : 10 /m ³
/	
123-42-2 4-hydroxy-4-methylpentan-2-one	
PDK	: 100 /m ³
/	
100-41-4 ethylbenzene	
PDK	: 150 /m ³ : 50 /m ³
/	

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DNEL

141-78-6 ethyl acetate

()	DNEL	4,5 / bw/d (popolazione)
()	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)

110-19-0 isobutyl acetate

()	DNEL	243 /mc ()
	DNEL	4,95 / bw/d ()

78-93-3 butanone

()	DNEL	600 /mc ()
	DNEL	1161 / bw/d ()

123-86-4 n-butyl acetate

()	DNEL acuto/agudo/ostre/aigu/acute/akut	960 /mc ()
		859,7 /mc (popolazione)
	DNEL	480 /mc ()
		102,34 /mc (popolazione)

1330-20-7 xylene

()	DNEL acuto/agudo/ostre/aigu/acute/akut	289 /mc ()
	DNEL	77 /mc ()
	DNEL	180 / bw/d ()

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

()	DNEL	275 /mc ()
	DNEL	153,5 / bw/d ()

108-88-3 toluene

()	DNEL acuto/agudo/ostre/aigu/acute/akut	384 /mc ()
	DNEL	192 /mc ()

67-63-0 propan-2-ol

()	DNEL	26 / bw/d (popolazione)
()	DNEL	500 /mc ()
		89 /mc (popolazione)

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	DNEL	888 / b w / d () 319 / b w / d (popolazione)
123-42-2 4-hydroxy-4-methylpentan-2-one		
()	DNEL acuto/agudo/ostre/ aigu/acute/akut	240 /mc ()
	DNEL	66,4 /mc ()
	DNEL	9,4 / b w / d ()
100-41-4 ethylbenzene		
()	DNEL acuto/agudo/ostre/ aigu/acute/akut	293 /mc ()
	DNEL	77 /mc ()
	DNEL	180 / b w / d ()

PNEC

141-78-6 ethyl acetate

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

110-19-0 isobutyl acetate

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

78-93-3 butanone

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

123-86-4 n-butyl acetate

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

1330-20-7 xylene

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

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

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

108-88-3 toluene

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

67-63-0 propan-2-ol

PNEC Acqua dolce/water/woda sjo'dka/eau/agua	140,9 /L ()
PNEC Suolo/earth/suelo/sol/gleba/	28 / ()

100-41-4 ethylbenzene

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

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EN 374

89/686/



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pH:

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(8)
/	77 °C
:	-4 °C
):	(,
:	315 °C
:	
:	
:	/
:	1,0 . %
:	12,0 . %
20 °C:	105
20 °C:	1,147 /cm ³
:	:
:	:
:	:
/	
):	(n- /
:	
:	20 °C:
:	101 s (ISO 6 mm)
:	
(+
) . VOC (EC)	55,35 %
	634,8 /
. 9.2	44,7 %

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- . 10.2

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- . 10.3

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· 10.4

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· 10.6

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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)

110-19-0 isobutyl acetate

()	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)

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)

1330-20-7 xylene

()	LD50	3523 / (rat/szczur/mouse/souris/Maus/rat n)
()	LD50	1701 / (rabbit/kr lik/Kaninchen/conejo/lapin)

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)

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)

67-63-0 propan-2-ol

()	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)
123-42-2 4-hydroxy-4-methylpentan-2-one		
()	LD50	3002 / (rat/szczur/mouse/souris/Maus/rat n)
()	LD50	13630 / (rab)
100-41-4 ethylbenzene		
()	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)

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141-78-6 ethyl acetate		
EC50	165 / (daphnia) (48 .)	
LC50 (96 .)	230 / ()	
110-19-0 isobutyl acetate		
EC50	370 / () (72 .)	
	25 / (daphnia)	
LC50 (96 .)	17 / ()	
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 / ()	
108-65-6 2-methoxy-1-methylethyl acetate		
EC50	1001 / () (72 .)	
	501 / (daphnia) (48 .)	
LC50 (96 .)	134 / ()	
108-88-3 toluene		
EC50	134 / () (3 .)	
	3,78 / (daphnia) (48 .)	
	58 / ()	

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67-63-0 propan-2-ol	
EC50	1001 / () (72 .)
	10000 / (daphnia) (24 .)
LC50 (96 .)	9640 / ()
123-42-2 4-hydroxy-4-methylpentan-2-one	
EC50	1001 / () (72 .)
	1000 / (daphnia) (48 .)
LC50 (96 .)	101 / ()
100-41-4 ethylbenzene	
EC50	75 / (daphnia) (48 .)
<ul style="list-style-type: none"> · 12.2 <li style="padding-left: 20px;">Toluene CAS n. 108-88-3 <li style="padding-left: 20px;">(OECD) · 12.3 · 12.4 <li style="padding-left: 20px;">2 (-): · 12.5 <li style="padding-left: 20px;">PBT () vPvB () <li style="padding-left: 40px;">· PBT: <li style="padding-left: 40px;">· vPvB: · 12.6 	

13
<ul style="list-style-type: none"> · 13.1 <li style="padding-left: 20px;">080111

14
<ul style="list-style-type: none"> · 14.1 UN <li style="padding-left: 20px;">· ADR, IMDG, IATA UN1263 · 14.2 <li style="padding-left: 20px;">· ADR UN1263 , 640D

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		(12)
· IMDG, IATA		PAINT
· 14.3		
· ADR, IMDG, IATA		
		
		3 3
· 14.4		
· ADR, IMDG, IATA		II
· 14.5		
· 14.6		
· EMS: (): 33		F-E, S-E
· Stowage Category		B
· 14.7		
II		
· MARPOL73/78 (
·) IBC Code (
·)		
· ADR		
· (LQ)		5L
· (EQ)		: E2
		: 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

 1: 5000
 2: 50000

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 H225
 H226
 H304
 H312
 H315
 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 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

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STOT RE 2: Specific target organ toxicity (repeated exposure) . Category 2 (14)

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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