

: 23.03.2017

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· 1.1

TV19

· 1.2.

· 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
STOT RE 2 H373

Asp. Tox. 1 H304



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

· 2.2

(EC) 1272/2008

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toluene
ethyl acetate
isobutyl acetate
butanone

H225
H315
H319
H361d
H336
H373

H304

P210 / / /

P301+P310

P303+P361+P353 (/):

P305+P351+P338

P405
P501 /

2.3

PBT ()

vPvB

PBT:

vPvB:

3 /

3.2

CAS: 141-78-6	ethyl acetate	25-29,99%
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: 110-19-0 EINECS: 203-745-1 Reg.nr.: 01-2119488971-22-XXXX	isobutyl acetate Flam. Liq. 2, H225 STOT SE 3, H336	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: 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: 100-37-8 EINECS: 202-845-2 Reg.nr.: 01-2119488937-14-XXXX	2-diethylaminoethanol Flam. Liq. 3, H226 Acute Tox. 3, H311; Acute Tox. 3, H331 Skin Corr. 1B, H314 Acute Tox. 4, H302	0,1-<0,5%

16.

4

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()

48

()

20

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5

· 5.1

· 5.2

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· 6.1

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141-78-6 ethyl acetate

PDK : 200 /m³
: 50 /m³

108-88-3 toluene

PDK : 150 /m³
: 50 /m³

78-93-3 butanone

PDK : 400 /m³
: 200 /m³

100-37-8 2-diethylaminoethanol

PDK : 5 /m³

DNEL

141-78-6 ethyl acetate

()	DNEL	4, 5 / b w / d (popolazione)
()	DNEL acuto/agudo/ostre/aigu/acute/akut	1468 /mc ()
		734 /mc (popolazione)
	DNEL	734 /mc ()
		367 /mc (popolazione)
	DNEL	6 3 / b w / d ()
		37 / bw/d (popolazione)

110-19-0 isobutyl acetate

()	DNEL	243 /mc ()
	DNEL	4, 9 5 / b w / d ()

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108-88-3 toluene		()	5)
()	DNEL acuto/agudo/ostre/ aigu/acute/akut	384 /mc ()	
	DNEL	192 /mc ()	
78-93-3 butanone			
()	DNEL	600 /mc ()	
	DNEL	1 1 6 1 / b w / d ()	

PNEC

141-78-6 ethyl acetate

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

110-19-0 isobutyl acetate

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

108-88-3 toluene

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

78-93-3 butanone

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

8.2



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EN 374

89/686/

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9

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pH:

77 °C

-4 °C

405 °C

1,2 . %
11,5 . %

20 °C:

105

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·	20 °C:	0,951 /cm ³	·
·			·
·	/		·
·	(n-	/	·
·):		·
·	20 °C:	40 s (ISO 4 mm)	·
·			·
·	(+	·
·	VOC (EC)	77,23 %	·
·		734,5 /	·
·	9.2	22,8 %	·

10

· 10.1

· 10.2

· 10.3

· 10.4

· 10.5

· 10.6

11

· 11.1

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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)

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)

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)

100-37-8 2-diethylaminoethanol

()

LD50 1300 / (rat/szczur/mouse/souris/Maus/rat n)

()

LC50/4 . 5 / (mouse)

12

12.1

:

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 / ()

108-88-3 toluene

EC50 134 / () (3 .)

3,78 / (daphnia) (48 .)

58 / ()

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78-93-3 butanone

EC50 2029 / () (96 .)

308 / (daphnia) (48 .)

LC50 (96 .) 2993 / ()

· 12.2

Toluene CAS n. 108-88-3
OECD)

· 12.3

· 12.4

2 (-):

· 12.5

PBT (

) vPvB (

)

· PBT:

· vPvB:

· 12.6

13

· 13.1

080111

14

· 14.1 **UN**

· ADR, IMDG, IATA

UN1263

· 14.2

· ADR

UN1263

640D

· IMDG, IATA

PAINT

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(10)

· **14.3**

· *ADR, IMDG, IATA*



· : 3
· : 3

· **14.4**

· *ADR, IMDG, IATA*

II

· **14.5**

· :
· :

· **14.6**

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

· **14.7**

MARPOL73/78 (

II

) 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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15

15.1

1907/2006 1272/2008
2012/18/EU

1: 5000
2: 50000

P

15.2

()

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16

H225
H226
H302
H304
H311
H314
H315
H319
H331
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

Acute Tox. 3: Acute toxicity . Category 3

Skin Corr. 1B: Skin corrosion/irritation . Category 1B

Skin Irrit. 2: Skin corrosion/irritation . Category 2

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Eye Irrit. 2: Serious eye damage/eye irritation . Category 2 (12)

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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