

: 16.07.2015

: 14.07.2015

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PF5K18

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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

2:

2.1

() 1272/2008



Flam. Liq. 2 H225



Repr. 1B H360Df



Skin Irrit. 2 H315

Eye Irrit. 2 H319

Skin Sens. 1 H317

STOT SE 3 H336

Aquatic Chronic 3 H412

67/548/EEC

1999/45/EC



R61:



R36:

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PF5K18

(1)



Xi;

R43:



F;

R11:

R52/53-67:

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(EC) 1272/2008

(CLP).



GHS02



GHS07



GHS08

1-methoxy-2-propanol
C.I. ACID BLACK 194
tetrahydrofurfuryl alcohol
n-butyl acetate

H225
H315
H319
H317
H360Df

H336
H412

P210 / / /

P241 /

P303+P361+P353 ():

P305+P351+P338 :

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P405
P501

Restricted to professional users.

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PBT (

) vPvB

PBT:

vPvB:

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CAS: 107-98-2 EINECS: 203-539-1 Reg.nr.: 01-2119457435-35-XXXX	1-methoxy-2-propanol R10-67 Flam. Liq. 3, H226 STOT SE 3, H336	20-<25%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29-XXXX	n-butyl acetate R10-66-67 Flam. Liq. 3, H226 STOT SE 3, H336	15- <50%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-XXXX	acetone Xi R36 F R11 R66-67 Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	10-14,99%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29-XXXX	2-methoxy-1-methylethyl acetate R10 Flam. Liq. 3, H226	5-9,99%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-XXXX	xylene Xn R20/21 Xi R38 R10 Flam. Liq. 3, H226 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	5-9,99%
CAS: 112-34-5 EINECS: 203-961-6 Reg.nr.: 01-2119475104-44-XXXX	2-(2-butoxyethoxy)ethanol Xi R36 Eye Irrit. 2, H319	5-9,99%

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CAS: 111-76-2 EINECS: 203-905-0 Reg.nr.: 01-2119475108-36-XXXX	2-butoxyethanol Xn R20/21/22 Xi R36/38 Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	5-9,99%
CAS: 57693-14-8 EINECS: 260-906-9	C.I. ACID BLACK 194 Xi R36 Xi R43 N R51/53 Aquatic Chronic 2, H411 Eye Irrit. 2, H319; Skin Sens. 1, H317	2,5-4,99%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25-XXXX	propan-2-ol Xi R36 F R11 R67 Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	2,5-4,99%
CAS: 54839-24-6 EINECS: 259-370-9 Reg.nr.: 01-2119475116-39-XXXX	2-ethoxy-1-methylethyl acetate R10-67 Flam. Liq. 3, H226 STOT SE 3, H336	1-2,499%
CAS: 72496-88-9	C.I. Acid Yellow 151 Xi R36/37/38 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	1-2,49%
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119488216-32-XXXX	ethylbenzene Xn R20-48/20-65 F R11 Flam. Liq. 2, H225 STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H332	1-2,499%
CAS: 97-99-4 EINECS: 202-625-6	tetrahydrofurfuryl alcohol T Repr. Cat. 2, 3 R61 Xn R62 Xi R36 Repr. 1B, H360Df Eye Irrit. 2, H319	1-2,499%

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48

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6:

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RCR

CAS 54839-24-6

: 0.01 0.52

: 0,104 5,2

123-86-4 n-butyl acetate

PDK

: 200 /m³

: 50 /m³

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(6)		
67-64-1 acetone		
PDK	: 800 /m ³ : 200 /m ³	/
108-65-6 2-methoxy-1-methylethyl acetate		
PDK	: 10 /m ³	/
1330-20-7 xylene		
PDK	: 150 /m ³ : 50 /m ³	/
112-34-5 2-(2-butoxyethoxy)ethanol		
PDK	: 10 /m ³	/
111-76-2 2-butoxyethanol		
PDK	: 5 /m ³	/
67-63-0 propan-2-ol		
PDK	: 50 /m ³ : 10 /m ³	/
100-41-4 ethylbenzene		
PDK	: 150 /m ³ : 50 /m ³	/
DNEL		
107-98-2 1-methoxy-2-propanol		
()	DNEL	369 /mc ()
	DNEL acuto/agudo/ostre/aigu/acute/akut	553,5 /mc ()
	DNEL	50,6 / b w / d ()
123-86-4 n-butyl acetate		
()	DNEL	480 /mc ()
	DNEL acuto/agudo/ostre/aigu/acute/akut	102,34 /mc (popolazione)
		960 /mc ()
		859,7 /mc (popolazione)
67-64-1 acetone		
()	DNEL	62 / bw/d (popolazione)
(8)		

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(7)		
()	DNEL	1210 /mc ()
		200 /mc (popolazione)
	DNEL acuto/agudo/ostre/aigu/acute/akut	2420 /mc ()
	DNEL	186 / bw/ d ()
		62 / bw/d (popolazione)
1330-20-7 xylene		
()	DNEL	77 /m c ()
	DNEL acuto/agudo/ostre/aigu/acute/akut	289 /mc ()
	DNEL	180 / bw/ d ()
112-34-5 2-(2-butoxyethoxy)ethanol		
()	DNEL	1,25 / b w / d (popolazione)
()	DNEL	67,5 /mc ()
		34 /m c (popolazione)
	DNEL acuto/agudo/ostre/aigu/acute/akut	101,2 /mc ()
		50,6 /mc (popolazione)
	DNEL	20 / bw/d ()
		10 / bw/d (popolazione)
111-76-2 2-butoxyethanol		
()	DNEL	89 /m c ()
	DNEL acuto/agudo/ostre/aigu/acute/akut	663 /mc ()
	DNEL	75 / bw/d ()
	DNEL acuto/agudo/ostre/aigu/acute/akut	89 / bw/d ()
67-63-0 propan-2-ol		
()	DNEL	26 / bw/d (popolazione)
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()	DNEL	500 /mc ()
	DNEL	89 /mc (popolazione)
		888 / bw/ d ()
		319 / bw/ d (popolazione)
54839-24-6 2-ethoxy-1-methylethyl acetate		
()	DNEL	302 /mc ()
	DNEL acuto/agudo/ostre/aigu/acute/akut	608 /mc ()
	DNEL	103 / bw/ d ()
100-41-4 ethylbenzene		
()	DNEL	77 /mc ()
	DNEL acuto/agudo/ostre/aigu/acute/akut	293 /mc ()
	DNEL	180 / bw/ d ()

PNEC

107-98-2 1-methoxy-2-propanol

PNEC Suolo/earth/suelo/sol/gleba/ 2,47 / ()

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 / ()

67-64-1 acetone

PNEC Acqua dolce/water/woda sjo'dka/eau/agua 10,6 /L ()

PNEC Suolo/earth/suelo/sol/gleba/ 29,5 / ()

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 / ()

1330-20-7 xylene

PNEC Acqua dolce/water/woda sjo'dka/eau/agua 0,327 /L ()

PNEC Suolo/earth/suelo/sol/gleba/ 2,31 / ()

112-34-5 2-(2-butoxyethoxy)ethanol

PNEC Acqua dolce/water/woda sjo'dka/eau/agua 1 /L ()

PNEC Suolo/earth/suelo/sol/gleba/ 0,4 / ()

111-76-2 2-butoxyethanol

PNEC Acqua dolce/water/woda sjo'dka/eau/agua 8,8 /L ()

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PNEC Suolo/earth/suelo/sol/gleba/	2,8 / ()	(9)
67-63-0 propan-2-ol		
PNEC Acqua dolce/water/woda sdka/eau/agua	140,9 /L ()	
54839-24-6 2-ethoxy-1-methylethyl acetate		
PNEC Acqua dolce/water/woda sdka/eau/agua	1,3 /L ()	
100-41-4 ethylbenzene		
PNEC Acqua dolce/water/woda sdka/eau/agua	0,1 /L ()	
PNEC Suolo/earth/suelo/sol/gleba/	2,68 / ()	

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EN 374

89/686/

PF5K18

(10)



9:

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pH:

55 °C

-17 °C

225 °C

0,9 . %
20,0 . %

20 °C: 233

20 °C: 0,965 /cm³

(n- /

20 °C: 29 s (ISO 3 mm)

(12)

PF5K18

(11)

	86,79 %
	0,6 %
VOC (EC)	837,5 /
9.2	12,6 %

10:

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10.6

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LD/LC50 (/),		
107-98-2 1-methoxy-2-propanol		
()	LD50	4016 / (rat/szczur/mouse/souris/Maus/rat n)
()	LD50	2001 / (rabbit/kr lik/Kaninchen/conejo/lapin)
()	LC50/4	54,6 / (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)

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()	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)
1330-20-7 xylene			
()	LD50	3523	/ (rat/szczur/mouse/souris/Maus/rat n)
()	LD50	1701	/ (rabbit/kr lik/Kaninchen/conejo/lapin)
112-34-5 2-(2-butoxyethoxy)ethanol			
()	LD50	2410	/ (rat/szczur/mouse/souris/Maus/rat n)
()	LD50	2764	/ (rabbit/kr lik/Kaninchen/conejo/lapin)
111-76-2 2-butoxyethanol			
()	LD50	1480	/ (rat/szczur/mouse/souris/Maus/rat n)
()	LD50	1100	/ (rab)
67-63-0 propan-2-ol			
()	LD50	5045	/ (rat/szczur/mouse/souris/Maus/rat n)
()	LD50	12800	/ (rabbit/kr lik/Kaninchen/conejo/lapin)
()	LC50/4	30	/ (rat/szczur/mouse/souris/Maus/rat n)
54839-24-6 2-ethoxy-1-methylethyl acetate			
()	LD50	5000	/ (rat/szczur/mouse/souris/Maus/rat n)
()	LD50	2001	/ (rabbit/kr lik/Kaninchen/conejo/lapin)
()	LC50	20,1	/ (rat/szczur/mouse/souris/Maus/rat n) (4 .)
72496-88-9 C.I. Acid Yellow 151			
()	LD50	5001	/ (rat/szczur/mouse/souris/Maus/rat n)
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)
97-99-4 tetrahydrofurfuryl alcohol			
()	LD50	2001	/ (rat/szczur/mouse/souris/Maus/rat n)

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107-98-2 1-methoxy-2-propanol	
EC50	23300 / (daphnia) (48 .)

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LC50 (96 .)	6812 / ()
123-86-4 n-butyl acetate	
EC50	648 / () (72 .)
	44 / (daphnia) (48 .)
LC50 (96 .)	18 / ()
67-64-1 acetone	
EC50	8800 / (daphnia)
LC50 (96 .)	5540 / ()
108-65-6 2-methoxy-1-methylethyl acetate	
EC50	408 / (daphnia) (48 .)
112-34-5 2-(2-butoxyethoxy)ethanol	
EC50	101 / () (48 .)
	101 / (daphnia) (48 .)
LC50 (96 .)	1300 / (Leuciscus idus melanotus)
111-76-2 2-butoxyethanol	
EC50	1550 / (daphnia) (48 .)
LC50 (96 .)	1474 / ()
67-63-0 propan-2-ol	
EC50	10000 / (daphnia) (24 .)
LC50 (96 .)	9640 / ()
54839-24-6 2-ethoxy-1-methylethyl acetate	
EC50	110 / (daphnia) (48 .)
LC50 (96 .)	101 / ()
100-41-4 ethylbenzene	
EC50	75 / (daphnia) (48 .)
97-99-4 tetrahydrofurfuryl alcohol	
EC50	92 / (daphnia) (48 .)
LC50 (96 .)	102 / ()

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· 12.5

PBT (

) vPvB (

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· PBT:

· vPvB:

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UN

· ADR, IMDG, IATA

UN1263

· 14.2

· ADR

· IMDG, IATA

UN1263

PAINT

640D

· 14.3

· ADR, IMDG, IATA



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· 14.4

· ADR, IMDG, IATA

II

· 14.5

· 14.6

· EMS: (): 33

F-E,S-E

· 14.7

MARPOL73/78 (

II

) IBC Code (

)

: 16.07.2015

: 14.07.2015

PF5K18

:

(15)

· ADR

(LQ)

5L

(EQ)

: E2

: 30

: 500

2

D/E

· IMDG

· Limited quantities (LQ)

· Excepted quantities (EQ)

1L

Code: E2

Maximum net quantity per inner packaging: 30

Maximum net quantity per outer packaging: 500

· UN "Model Regulation":

UN1263,
II

, 640D, 3,

15:

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96/82/EC

1: 5000

2: 50000

1907/2006 1272/2008

· P

161/2006 (2004/42/EC)-

· 15.2

16:

H225
H226
H302
H304
H312
H315
H317
H319

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RU

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H332
 H335
 H336
 H360Df

H373

H411

R10
 R11
 R20
 R20/21
 R20/21/22

R36
 R36/37/38
 R36/38
 R38
 R43
 R48/20

R51/53

R61
 R62
 R65

R66

R67

: 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, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

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

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Repr. 1B: Reproductive toxicity, Hazard Category 1B

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

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ECHA -

INRS Fiche Toxicologique

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