

: 02.04.2017

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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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· 2.1

() 1272/2008



Flam. Liq. 2 H225



Asp. Tox. 1 H304



Eye Irrit. 2 H319

STOT SE 3 H336

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(EC) 1272/2008

(CLP).



GHS02



GHS07



GHS08

n-butyl acetate

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isobutyl acetate
butanone
toluene

H225
H319
H336
H304

P210

P301+P310

P303+P361+P353

P305+P351+P338

P405
P501

2.3

PBT (

) vPvB

PBT:
vPvB:

3

3.2

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	20-<25%
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: 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%
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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CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29-XXXX	2-methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226	(2) 2,5-4,99%
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%
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	1-2,499%
CAS: 108-10-1 EINECS: 203-550-1 Reg.nr.: 01-2119473980-30-XXXX	4-methylpentan-2-one ⚠ Flam. Liq. 2, H225 ⚠ Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	1-2,499%
CAS: 108-94-1 EINECS: 203-631-1 Reg.nr.: 01-2119453616-35-XXXX	cyclohexanone ⚠ Flam. Liq. 3, H226 ⚠ Acute Tox. 4, H332	1-2,499%

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		:
123-86-4 n-butyl acetate		
PDK		: 200 /m ³ : 50 /m ³
	/	
1330-20-7 xylene		
PDK		: 150 /m ³ : 50 /m ³
	/	
78-93-3 butanone		
PDK		: 400 /m ³ : 200 /m ³
	/	
108-65-6 2-methoxy-1-methylethyl acetate		
PDK		: 10 /m ³
	/	
100-41-4 ethylbenzene		
PDK		: 150 /m ³ : 50 /m ³
	/	
108-88-3 toluene		
PDK		: 150 /m ³ : 50 /m ³
	/	
108-10-1 4-methylpentan-2-one		
PDK		: 5 /m ³
	/	
108-94-1 cyclohexanone		
PDK		: 30 /m ³ : 10 /m ³
	/	
DNEL		
123-86-4 n-butyl acetate		
()	DNEL acuto/agudo/ostre/ aigu/acute/akut	960 /mc ()

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		() ⁵⁾
	DNEL	859,7 /mc (popolazione) 480 /mc () 102,34 /mc (popolazione)
110-19-0 isobutyl acetate		
()	DNEL	243 /mc ()
	DNEL	4,95 / bw/d ()
1330-20-7 xylene		
()	DNEL acuto/agudo/ostre/ aigu/acute/akut	289 /mc ()
	DNEL	77 /mc ()
	DNEL	180 / bw/d ()
78-93-3 butanone		
()	DNEL	600 /mc ()
	DNEL	1161 / bw/d ()
108-65-6 2-methoxy-1-methylethyl acetate		
()	DNEL	275 /mc ()
	DNEL	153,5 / bw/d ()
100-41-4 ethylbenzene		
()	DNEL acuto/agudo/ostre/ aigu/acute/akut	293 /mc ()
	DNEL	77 /mc ()
	DNEL	180 / bw/d ()
108-88-3 toluene		
()	DNEL acuto/agudo/ostre/ aigu/acute/akut	384 /mc ()
	DNEL	192 /mc ()
108-10-1 4-methylpentan-2-one		
()	DNEL acuto/agudo/ostre/ aigu/acute/akut	208 /mc ()
	DNEL	83 /mc ()
	DNEL	11,8 / bw/d ()
108-94-1 cyclohexanone		
()	DNEL	40 /mc ()
	DNEL	4 / bw/d ()
PNEC		
123-86-4 n-butyl acetate		
PNEC Acqua dolce/water/woda słodka/eau/agua	0,18 /L ()	
PNEC Suolo/earth/suelo/sol/gleba/	0,0903 / ()	
110-19-0 isobutyl acetate		
PNEC Acqua dolce/water/woda słodka/eau/agua	0,17 /L ()	

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PNEC Suolo/earth/suelo/sol/gleba/	0,0755 / ()
1330-20-7 xylene	
PNEC Acqua dolce/water/woda słodka/eau/agua	0,327 /L ()
PNEC Suolo/earth/suelo/sol/gleba/	2,31 / ()
78-93-3 butanone	
PNEC Acqua dolce/water/woda słodka/eau/agua	55,8 /L ()
PNEC Suolo/earth/suelo/sol/gleba/	22,5 / ()
108-65-6 2-methoxy-1-methylethyl acetate	
PNEC Acqua dolce/water/woda słodka/eau/agua	0,635 /L ()
PNEC Suolo/earth/suelo/sol/gleba/	0,29 / ()
100-41-4 ethylbenzene	
PNEC Acqua dolce/water/woda słodka/eau/agua	0,1 /L ()
PNEC Suolo/earth/suelo/sol/gleba/	2,68 / ()
108-88-3 toluene	
PNEC Acqua dolce/water/woda słodka/eau/agua	0,68 /L ()
PNEC Suolo/earth/suelo/sol/gleba/	2,89 / ()
108-10-1 4-methylpentan-2-one	
PNEC Acqua dolce/water/woda słodka/eau/agua	0,6 /L ()
108-94-1 cyclohexanone	
PNEC Acqua dolce/water/woda słodka/eau/agua	0,1 /L ()
PNEC Suolo/earth/suelo/sol/gleba/	0,0435 / ()

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EN 374

89/686/

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pH:

79 °C

-4 °C

315 °C

1,0 %
11,5 %

20 °C:

105

20 °C:

0,971 /cm³

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·	:	20 °C:	40 s (ISO 4 mm)
·	:		
·	VOC (EC)		55,83 % 542,1 /
·	9.2	:	44,2 %

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LD/LC50 (/),		
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)
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)

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1330-20-7 xylene		
()	LD50	3523 / (rat/szczur/mouse/souris/Maus/rat n)
()	LD50	1701 / (rabbit/kr lik/Kaninchen/conejo/lapin)
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)
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)
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)
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)
108-10-1 4-methylpentan-2-one		
()	LD50	2080 / (rat/szczur/mouse/souris/Maus/rat n)
()	LD50	16000 / (rab)
()	LC50/4	16,6 / (rat/szczur/mouse/souris/Maus/rat n)
108-94-1 cyclohexanone		
()	LD50	1535 / (rat/szczur/mouse/souris/Maus/rat n)
()	LD50	1100 / (rabbit/kr lik/Kaninchen/conejo/lapin)
()	LC50/4	11 / (rat/szczur/mouse/souris/Maus/rat n)

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123-86-4 n-butyl acetate		
EC50	648 / () (72 .)	
	44 / (daphnia) (48 .)	
LC50 (96 .)	18 / ()	
110-19-0 isobutyl acetate		
EC50	370 / () (72 .)	

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	25 / (daphnia)	(10)
LC50 (96 .)	17 / ()		
78-93-3 butanone			
EC50	2029 / () (96 .)		
	308 / (daphnia) (48 .)		
LC50 (96 .)	2993 / ()		
108-65-6 2-methoxy-1-methylethyl acetate			
EC50	1001 / () (72 .)		
	501 / (daphnia) (48 .)		
LC50 (96 .)	134 / ()		
100-41-4 ethylbenzene			
EC50	75 / (daphnia) (48 .)		
108-88-3 toluene			
EC50	134 / () (3 .)		
	3,78 / (daphnia) (48 .)		
	58 / ()		
108-10-1 4-methylpentan-2-one			
EC50	101 / (daphnia) (48 .)		
LC50 (96 .)	101 / ()		
108-94-1 cyclohexanone			
EC50	101 / () (72 .)		
LC50 (96 .)	527 / ()		

· 12.2

Toluene CAS n. 108-88-3
OECD

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PBT (

) vPvB (

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· PBT:

· vPvB:

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14

· 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

· 14.5

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· 14.6

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· (): EMS: Stowage Category

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F-E, S-E

B

· 14.7

II

MARPOL73/78 (

) IBC Code (

)

:

/

:

· ADR

(LQ)

5L

(EQ)

: E2

: 30

: 500

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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

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1907/2006 1272/2008
2012/18/EU

1: 5000

2: 50000

· P

· 15.2

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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

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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
 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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