

: 15.02.2017

: 12.02.2017

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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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() 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
Skin Sens. 1 H317
STOT SE 3 H336

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(EC) 1272/2008

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toluene
Aromatic polyisocyanate
Aromatic polyisocyanate
ethyl acetate

H225
H315
H319
H317
H361d
H336
H373

H304

P210 / / /

P301+P310

P303+P361+P353 (/):

P305+P351+P338

P405
P501 /

EUH204

2.3

PBT () vPvB

PBT:
vPvB:

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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: 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: 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	15-19,99%
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	15-19,99%
CAS: 9017-01-0	Aromatic polyisocyanate ⚠ Eye Irrit. 2, H319; Skin Sens. 1, H317	15-19,99%
CAS: 53317-61-6	Aromatic polyisocyanate ⚠ Eye Irrit. 2, H319; Skin Sens. 1, H317	5-9,99%

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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	
DNEL			
108-88-3 toluene			
()	DNEL acuto/agudo/ostre/ aigu/acute/akut	384 /mc ()	
	DNEL	192 /mc ()	

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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)
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)
26471-62-5 m-tolylidene diisocyanate		
()	DNEL acuto/agudo/ostre/aigu/acute/akut	0,14 /mc ()
	DNEL	0,035 /mc ()

PNEC

108-88-3 toluene	
PNEC Acqua dolce/water/woda sjo'dka/eau/agua	0,68 /L ()
PNEC Suolo/earth/suelo/sol/gleba/	2,89 / ()
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 / ()
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 / ()
26471-62-5 m-tolylidene diisocyanate	
PNEC Acqua dolce/water/woda sjo'dka/eau/agua	0,013 /L ()
PNEC Suolo/earth/suelo/sol/gleba/	1,1 / ()

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EN 374

89/686/



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pH:

77 °C

-4 °C

370 °C

1,2 . %
11,5 . %

20 °C: 105

20 °C: 0,943 /cm³

20 °C: 29 s (ISO 3 mm)

VOC (EC) 77,40 %
729,8 /

9.2 22,5 %

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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)
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)
9017-01-0 Aromatic polyisocyanate		
()	LD50	2001 / (rat/szczur/mouse/souris/Maus/rat n) (OECD TG 423)
53317-61-6 Aromatic polyisocyanate		
()	LD50	5001 / (rat/szczur/mouse/souris/Maus/rat n)
26471-62-5 m-tolylidene diisocyanate		
()	LD50	5110 / (rat/szczur/mouse/souris/Maus/rat n)

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()	LD50	9401 / (rabbit/kr lik/Kaninchen/conejo/lapin)
()	LC50/4	0,107 / (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 / ()
26471-62-5 m-tolylidene diisocyanate	
EC50	12,5 / (daphnia) (48 .)
LC50 (96 .)	133 / (Leuciscus idus melanotus)

12.2

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

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2 (-):

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PBT (

) vPvB (

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· PBT:

· vPvB:

· 12.6

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· 13.1

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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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3

· 14.4

· ADR, IMDG, IATA

II

· 14.5

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· 14.6

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

· 14.7

II

MARPOL73/78 ()
IBC Code ()

· ADR

(LQ)

5L

(EQ)

: E2

: 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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1907/2006 1272/2008
2012/18/EU

1: 5000

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H225
 H226
 H304
 H315
 H317
 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

Skin Sens. 1: Skin sensitisation . Category 1

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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