

: 22.03.2017

: 15.03.2017

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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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() 1272/2008



Flam. Liq. 2 H225



Resp. Sens. 1 H334

Repr. 2 H361d



Eye Irrit. 2 H319

Skin Sens. 1 H317

STOT SE 3 H336

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(EC) 1272/2008

(CLP).



GHS02



GHS07



GHS08

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Aromatic polyisocyanate
toluene
ethyl acetate
m-tolyldiene diisocyanate
Polyisocyanate HDI / TDI
hexamethylene diisocyanate

H225
H319
H334

H317
H361d
H336

P210 / / /

P241 /

P303+P361+P353 ():

P305+P351+P338 :

P405
P501 /

EUH204

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PBT ()

vPvB

PBT:
vPvB:

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CAS: 53317-61-6	Aromatic polyisocyanate ⚠ Eye Irrit. 2, H319; Skin Sens. 1, H317	25-29,99%
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: 26426-91-5	Polyisocyanate HDI / TDI ⚠ Eye Irrit. 2, H319; Skin Sens. 1, H317	15-19,99%

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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	10-14,99% ²⁾
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: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29-XXXX	2-methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226	5-9,99%
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: 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: 26471-62-5 EINECS: 247-722-4 Reg.nr.: 01-2119454791-34-XXXX	m-tolyldiene diisocyanate ⚠ Acute Tox. 2, H330 ⚠ Resp. Sens. 1, H334; Carc. 2, H351 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 Aquatic Chronic 3, H412	0,1-<0,5%
CAS: 822-06-0 EINECS: 212-485-8 Reg.nr.: 01-2119457571-37-XXXX	hexamethylene diisocyanate ⚠ Acute Tox. 1, H330 ⚠ Resp. Sens. 1, H334 ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	0,1-<0,5%

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141-78-6 ethyl acetate	
PDK	: 200 /m ³ : 50 /m ³
123-86-4 n-butyl acetate	
PDK	: 200 /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
108-88-3 toluene	
PDK	: 150 /m ³ : 50 /m ³
822-06-0 hexamethylene diisocyanate	
PDK	: 0,05 /m ³

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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)

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)

78-93-3 butanone

()	DNEL	600 /mc ()
	DNEL	1161 / b w / d ()

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

()	DNEL	275 /mc ()
	DNEL	153,5 / b w / d ()

110-19-0 isobutyl acetate

()	DNEL	243 /mc ()
	DNEL	4,95 / b w / d ()

108-88-3 toluene

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

26471-62-5 m-tolylidene diisocyanate

()	DNEL acuto/agudo/ostre/aigu/acute/akut	0,14 /mc ()
	DNEL	0,035 /mc ()

822-06-0 hexamethylene diisocyanate

()	DNEL acuto/agudo/ostre/aigu/acute/akut	0,07 /mc ()
	DNEL	0,035 /mc ()

PNEC

141-78-6 ethyl acetate

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

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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 / ()

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 / ()

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 / ()

26471-62-5 m-tolylidene diisocyanate

PNEC Acqua dolce/water/woda słodka/eau/agua	0,013 /L ()
PNEC Suolo/earth/suelo/sol/gleba/	1,1 / ()

822-06-0 hexamethylene diisocyanate

PNEC Acqua dolce/water/woda słodka/eau/agua	0,075 /L ()
PNEC Suolo/earth/suelo/sol/gleba/	0,0027 / ()

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pH:

77 °C

-4 °C

315 °C

1,2 . %
11,5 . %

20 °C:

105

20 °C:

1,02 /cm³

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·):	(n- /
· :	·
· 20 °C:	29 s (ISO 3 mm)
· (· +
· VOC (EC)	56,46 % 575,9 /
· 9.2	43,3 %

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· 10.1

· 10.2

· 10.3

· 10.4

· 10.5

· 10.6

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· LD/LC50 (/),
·
53317-61-6 Aromatic polyisocyanate
() LD50 5001 / (rat/szczur/mouse/souris/Maus/rat n)

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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)

26426-91-5 Polyisocyanate HDI / TDI

()	LD50	5001 / (rat/szczur/mouse/souris/Maus/rat n)
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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)

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)

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)

26471-62-5 m-tolyldiene diisocyanate

()	LD50	5110 / (rat/szczur/mouse/souris/Maus/rat n)
()	LD50	9401 / (rabbit/kr lik/Kaninchen/conejo/lapin)
()	LC50/4	0,107 / (rat/szczur/mouse/souris/Maus/rat n)

822-06-0 hexamethylene diisocyanate

()	LD50	738 / (rat/szczur/mouse/souris/Maus/rat n)
()	LD50	593 / (rat/szczur/mouse/souris/Maus/rat n)
()	LC50/4	0,124 / (rat/szczur/mouse/souris/Maus/rat n)

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OECD TG 429

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141-78-6 ethyl acetate	
EC50	165 / (daphnia) (48 .)
LC50 (96 .)	230 / ()
123-86-4 n-butyl acetate	
EC50	648 / () (72 .)
	44 / (daphnia) (48 .)
LC50 (96 .)	18 / ()
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 / ()
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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26471-62-5 m-tolyldene diisocyanate

EC50 12,5 / (daphnia) (48 .)

LC50 (96 .) 133 / (Leuciscus idus melanotus)

822-06-0 hexamethylene diisocyanate

EC50 77,5 / () (72 .)

89,2 / (daphnia) (48 .)

LC50 (96 .) 82,9 / ()

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Toluene CAS n. 108-88-3
OECD

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· 12.4

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· 12.5

PBT (

) vPvB (

· PBT:

· vPvB:

· 12.6

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· 14.1 UN

· ADR, IMDG, IATA

UN1263

· 14.2

· ADR

UN1263

640D

· IMDG, IATA

PAINT

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· 14.3

· ADR, IMDG, IATA



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· 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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1907/2006 1272/2008
2012/18/EU

1: 5000
2: 50000

· P

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- H225
- H226
- H302
- H304
- H315
- H317
- H319
- H330
- H334

- H335
- H336
- H351
- 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

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Acute Tox. 4: Acute toxicity . Category 4
 Acute Tox. 1: Acute toxicity . Category 1
 Acute Tox. 2: Acute toxicity . Category 2
 Skin Irrit. 2: Skin corrosion/irritation . Category 2
 Eye Irrit. 2: Serious eye damage/eye irritation . Category 2
 Resp. Sens. 1: Respiratory sensitisation . Category 1
 Skin Sens. 1: Skin sensitisation . Category 1
 Carc. 2: Carcinogenicity . 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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