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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



Repr. 2

H361d

STOT RE 1

H372-H373



Skin Irrit. 2

H315

Eye Irrit. 2

H319

Skin Sens. 1

H317

STOT SE 3

H335

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(1)

Aquatic Chronic 3 H412

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(EC) 1272/2008

(CLP).



GHS02 GHS07 GHS08

styrene
maleic anhydride
4-methylpentan-2-one

H225
H315
H319
H317
H361d
H335
H372-H373

H412

P210 / / /

P241 /

P303+P361+P353 ():

P305+P351+P338 :

P405
P501 /

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PBT () **vPvB**

PBT:

vPvB:

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CAS: 100-42-5 EINECS: 202-851-5	styrene Flam. Liq. 3, H226 Repr. 2, H361d; STOT RE 1, H372; Asp. Tox. 1, H304 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 Aquatic Chronic 3, H412	25-29,99%
CAS: 141-78-6 EINECS: 205-500-4	ethyl acetate Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	5-9,99%
CAS: 78-93-3 EINECS: 201-159-0	butanone Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	2,5-4,99%
CAS: 108-10-1 EINECS: 203-550-1	4-methylpentan-2-one Flam. Liq. 2, H225 Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	2,5-4,99%
CAS: 108-88-3 EINECS: 203-625-9	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: 67-63-0 EINECS: 200-661-7	propan-2-ol Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	<0,5%
CAS: 57-55-6 EINECS: 200-338-0	propane-1,2-diol	<0,5%
CAS: 108-31-6 EINECS: 203-571-6	maleic anhydride Resp. Sens. 1, H334; STOT RE 1, H372-H373 Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Sens. 1A, H317	≥0,001-<0,1%

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100-42-5 styrene	
PDK	. . : 10 /m ³ . . : 30 /m ³ ;
141-78-6 ethyl acetate	
PDK	. . : 50 /m ³ . . : 200 /m ³ ;
78-93-3 butanone	
PDK	. . : 200 /m ³ . . : 400 /m ³ ;
108-10-1 4-methylpentan-2-one	
PDK	. . : 5 /m ³ ; +;
108-88-3 toluene	
PDK	. . : 50 /m ³ . . : 150 /m ³ ;
67-63-0 propan-2-ol	
PDK	. . : 10 /m ³ . . : 50 /m ³ ;
57-55-6 propane-1,2-diol	
PDK	. . : 7 /m ³ + ;
108-31-6 maleic anhydride	
PDK	. . : 1 /m ³ + ; A, +;

DNEL	
100-42-5 styrene	
	DNEL acuto/agudo/ostre/ aigu/acute/akut
	289 /mc ()
	DNEL
	174,25 /mc ()
	85 /mc ()
	10,6 /mc ()
	DNEL
	4 0 6 / b w / d
	()

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		6)
		3 4 3 / b w / d ()
141-78-6 ethyl acetate		
()	DNEL	4,5 / bw/d ()
()	DNEL acuto/agudo/ostre/ aigu/acute/akut	1.468 /mc ()
		734 /mc ()
	DNEL	734 /mc ()
		367 /mc ()
	DNEL	6 3 / b w / d ()
		37 / bw/d ()
78-93-3 butanone		
()	DNEL	600 /mc ()
	DNEL	1 . 1 6 1 / b w / d ()
108-10-1 4-methylpentan-2-one		
()	DNEL acuto/agudo/ostre/ aigu/acute/akut	208 /mc ()
	DNEL	83 /mc ()
	DNEL	1 1 , 8 / b w / d ()
108-88-3 toluene		
()	DNEL acuto/agudo/ostre/ aigu/acute/akut	384 /mc ()
	DNEL	192 /mc ()
67-63-0 propan-2-ol		
()	DNEL	26 / bw/d ()
()	DNEL	500 /mc ()
		89 /mc ()
	DNEL	8 8 8 / b w / d ()
		3 1 9 / b w / d ()
57-55-6 propane-1,2-diol		
()	DNEL	168 /mc ()
108-31-6 maleic anhydride		
()	DNEL acuto/agudo/ostre/ aigu/acute/akut	0,8 /mc ()
	DNEL	0,4 /mc ()
PNEC		
100-42-5 styrene		
PNEC Acqua dolce/water/woda sypka/eau/agua/	28 /L ()	
PNEC Suolo/earth/suelo/ /	0,2 / ()	
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		(7)
141-78-6 ethyl acetate			
PNEC Acqua dolce/water/woda sýdka/eau/agua/水	0,24	/L ()
PNEC Suolo/earth/suelo/ /地面	0,148	/	()
78-93-3 butanone			
PNEC Acqua dolce/water/woda sýdka/eau/agua/水	55,8	/L ()
PNEC Suolo/earth/suelo/ /地面	22,5	/	()
108-10-1 4-methylpentan-2-one			
PNEC Acqua dolce/water/woda sýdka/eau/agua/水	0,6	/L ()
PNEC Suolo/earth/suelo/ /地面	1,3	/	()
108-88-3 toluene			
PNEC Acqua dolce/water/woda sýdka/eau/agua/水	0,68	/L ()
PNEC Suolo/earth/suelo/ /地面	2,89	/	()
67-63-0 propan-2-ol			
PNEC Acqua dolce/water/woda sýdka/eau/agua/水	140,9	/L ()
PNEC Suolo/earth/suelo/ /地面	28	/	()
57-55-6 propane-1,2-diol			
PNEC Acqua dolce/water/woda sýdka/eau/agua/水	260	/L ()
PNEC Suolo/earth/suelo/ /地面	50	/	()
108-31-6 maleic anhydride			
PNEC Acqua dolce/water/woda sýdka/eau/agua/水	0,1	/L ()

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(9)
· 20 °C:	105
· 20 °C:	0,987 /cm ³
· /	
· (n-	/
·):	
· 20 °C:	70 s (ISO 4 mm)
· (+
· VOC (EC)	47,17 % 465,6 /
· 9.2	82,0 %

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(10)		
<i>LD/LC50 (/),</i>		
:		
ATE ((OOT))		
()	LC50/4 .	37,1 / ()
100-42-5 styrene		
()	LD50	5.000 / ()
()	LD50	2.001 / ()
()	LC50/4 .	11,8 / ()
141-78-6 ethyl acetate		
()	LD50	4.934 / ()
()	LD50	20.001 / ()
()	LC50/4 .	1.600 / ()
()	LC0	22,6 ppm ()
78-93-3 butanone		
()	LD50	2.001 / ()
()	LD50	5.001 / ()
()	LC50/4 .	21 / ()
108-10-1 4-methylpentan-2-one		
()	LD50	2.080 / ()
()	LD50	16.000 / (rab)
()	LC50/4 .	16,6 / ()
108-88-3 toluene		
()	LD50	5.000 / ()
()	LD50	12.124 / ()
()	LC50/4 .	25,7 / ()
67-63-0 propan-2-ol		
()	LD50	4.710 / ()
()	LD50	12.800 / ()
()	LC50/4 .	72,6 / ()
57-55-6 propane-1,2-diol		
()	LD50	20.000 / ()
()	LD50	2.001 / ()
108-31-6 maleic anhydride		
()	LD50	400 / ()
()	LD50	2.620 / ()
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.		:
100-42-5 styrene		
EC50	4,9 / ()	(72 .)
	4,7 / ()	(48 .)
LC50 (96 .)	4,02 / ()	
141-78-6 ethyl acetate		
EC50	165 / ()	(48 .)
LC50 (96 .)	230 / ()	
78-93-3 butanone		
EC50	2.029 / ()	(96 .)
	308 / ()	(48 .)
LC50 (96 .)	2.993 / ()	
108-10-1 4-methylpentan-2-one		
EC50	201 / ()	(48 .)
LC50 (96 .)	180 / ()	
108-88-3 toluene		
EC50	134 / ()	(96 .)
	3,78 / ()	(48 .)
LC50 (96 .)	5,5 / ()	
67-63-0 propan-2-ol		
EC50	1.001 / ()	(72 .)
	10.000 / ()	(24 .)
LC50 (96 .)	9.640 / ()	
57-55-6 propane-1,2-diol		
EC50	19.000 / ()	(48 .)
	18.340 / ()	(48 .)
LC50 (96 .)	40.613 / ()	
108-31-6 maleic anhydride		
EC50	29 / ()	(72 .)
	42,8 / ()	(48 .)
LC50 (96 .)	75 / ()	

. 12.2

Toluene CAS n. 108-88-3

(OECD, EU RAR)

.		:
100-42-5	styrene	.
141-78-6	ethyl acetate	.
78-93-3	butanone	.
108-10-1	4-methylpentan-2-one	.
108-88-3	toluene	.

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· 12.3 (12)

· 12.4 - .

· 12.5) vPvB (**PBT** ()

· PBT:

· vPvB:

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· 14.1 UN · ADR, IMDG, IATA	UN1263
· 14.2 · ADR · IMDG, IATA	PAINT
· 14.3 · ADR, IMDG, IATA	

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· 14.4 · ADR, IMDG, IATA	II
· 14.5 · :	:
· 14.6 · :	:
· EMS: · Stowage Category	33 F-E, S-E B
· 14.7 MARPOL73/78 (II
) IBC Code (
)	
· /	:
· ADR · (LQ) · (EQ)	5L : 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 , 3, II

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1907/2006 1272/2008
2012/18/EU

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H225
 H226
 H302
 H304
 H314
 H315
 H317
 H318
 H319
 H332
 H334

H335
 H336
 H361d
 H372

H373

H412

: IVM Chemicals Srl
 : Claudia Zanella

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
 Skin Corr. 1B: Skin corrosion/irritation . Category 1B
 Skin Irrit. 2: Skin corrosion/irritation . Category 2
 Eye Dam. 1: Serious eye damage/eye irritation . Category 1
 Eye Irrit. 2: Serious eye damage/eye irritation . Category 2

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Resp. Sens. 1: Respiratory sensitisation . Category 1 (15)
 Skin Sens. 1: Skin sensitisation . Category 1
 Skin Sens. 1A: Skin sensitisation . Category 1A
 Repr. 2: Reproductive toxicity . Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) . Category 3
 STOT RE 1: Specific target organ toxicity (repeated exposure) . Category 1
 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

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 1272/2008/EC
 ECHA -
 INRS Fiche Toxicologique

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