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1:

· 1.1

PI5/52

· 1.2

· 1.3

IVM Chemicals Srl
Viale della Stazione 3 -27020 Parona (PV)Italy -Tel +39 038425441

Environmental Health and safety office
hseoffice@ivmchemicals.com

· 1.4

8.30 17.30 0039 038 425 441

: 0039 0384 254491

2:

· 2.1

() 1272/2008

Flam. Liq. 2 H225
Skin Irrit. 2 H315
Eye Irrit. 2 H319
Skin Sens. 1 H317
Repr. 2 H361d
STOT RE 1 H372-H373

· 2.2

(EC) 1272/2008

(CLP).



GHS02 GHS07 GHS08

styrene
maleic anhydride

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toluene (1)

H225
H315
H319
H317
H361d
H372-H373

P210 / / / ..

P241 /

P303+P361+P353 ():/

P305+P351+P338 :

P405
P501 /

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3

PBT () **vPvB**

PBT:

vPvB:

3: ()

3.2

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	15-19,99%
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	≥3-<4,99%

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CAS: 67-64-1 EINECS: 200-662-2	acetone Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 EUH066	2,5-4,99%
CAS: 57-55-6 EINECS: 200-338-0	propane-1,2-diol	0,5-<1%
CAS: 141-78-6 EINECS: 205-500-4	ethyl acetate Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 EUH066	<0,5%
CAS: 78-93-3 EINECS: 201-159-0	butanone Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 EUH066	<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 Acute Tox. 4, H302; Skin Sens. 1, H317 EUH071 Skin Sens. 1A; H317: C ≥ 0,001 %	≥0,001-<0,1%

16.

4:

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· 5.1

· 5.2

· 5.3

(NOx)
() (CO)

6:

· 6.1

· 6.2

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· 6.4

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- 13. (4)

7:

· 7.1

· 7.2

· 7.3

8:

· 8.1

100-42-5 styrene	
PDK	.. : 10 /m ³ .. : 30 /m ³ ;
108-88-3 toluene	
PDK	.. : 50 /m ³ .. : 150 /m ³ ;
67-64-1 acetone	
PDK	.. : 200 /m ³ .. : 800 /m ³ ;

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57-55-6 propane-1,2-diol

PDK . . : 7 /m³
+ ;

141-78-6 ethyl acetate

PDK . . : 50 /m³
. . : 200 /m³
;

78-93-3 butanone

PDK . . : 200 /m³
. . : 400 /m³
;

108-31-6 maleic anhydride

PDK . . : 1 /m³
+ ; A, +;

DNEL

100-42-5 styrene

()	DNEL acuto/agudo/ostre/aigu/acute/akut	289 /mc ()
		174,25 /mc ()
	DNEL	85 /mc ()
		10,6 /mc ()
	DNEL	4 0 6 / b w / d ()
		3 4 3 / b w / d ()

108-88-3 toluene

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

67-64-1 acetone

()	DNEL	62 / bw/d ()
()	DNEL acuto/agudo/ostre/aigu/acute/akut	2.420 /mc ()
	DNEL	1.210 /mc ()
		200 /mc ()
	DNEL	1 8 6 / b w / d ()
		62 / bw/d ()

57-55-6 propane-1,2-diol

()	DNEL	168 /mc ()
-----	------	-------------

141-78-6 ethyl acetate

()	DNEL	4,5 / bw/d ()
()	DNEL acuto/agudo/ostre/aigu/acute/akut	1.468 /mc ()
		734 /mc ()

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	DNEL	734 /mc ()	6)
	DNEL	367 /mc ()	
	DNEL	63 / bw/d ()	
	DNEL	37 / bw/d ()	
Solvent naphtha (petroleum), light arom.			
	DNEL	150 /mc ()	
	DNEL	25 / bw/d ()	
78-93-3 butanone			
	DNEL	600 /mc ()	
	DNEL	1.161 / bw/d ()	
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 sŕodka/eau/agua/		28 /L ()	
PNEC Suolo/earth/suelo/ /		0,2 / ()	
108-88-3 toluene			
PNEC Acqua dolce/water/woda sŕodka/eau/agua/		0,68 /L ()	
PNEC Suolo/earth/suelo/ /		2,89 / ()	
67-64-1 acetone			
PNEC Acqua dolce/water/woda sŕodka/eau/agua/		10,6 /L ()	
PNEC Suolo/earth/suelo/ /		29,5 / ()	
57-55-6 propane-1,2-diol			
PNEC Acqua dolce/water/woda sŕodka/eau/agua/		260 /L ()	
PNEC Suolo/earth/suelo/ /		50 / ()	
141-78-6 ethyl acetate			
PNEC Acqua dolce/water/woda sŕodka/eau/agua/		0,24 /L ()	
PNEC Suolo/earth/suelo/ /		0,148 / ()	
78-93-3 butanone			
PNEC Acqua dolce/water/woda sŕodka/eau/agua/		55,8 /L ()	
PNEC Suolo/earth/suelo/ /		22,5 / ()	
108-31-6 maleic anhydride			
PNEC Acqua dolce/water/woda sŕodka/eau/agua/		0,1 /L ()	

8.2

7.

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AX.



EN 374

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9:

9.1

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56 °C (67-64-1 acetone)

1,2 . % (100-42-5 styrene)
30 . % (91051-01-3 Zinc stearate)
-17 °C

pH:

20 °C:

55 s (ISO 6 mm)

20 °C:

233 (67-64-1 acetone)

20 °C:

1,428 /cm³

465 °C (67-64-1 acetone)

24,46 %

VOC (EC)

349,3 /

91,4 %

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10:

· 10.1

· 10.2

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(9)

· 10.3

· 10.4

· 10.5

· 10.6

11:

· 11.1

:

LD/LC50 (/),

:

ATE ((OOT))

() LC50/4 . 72,6 / ()

100-42-5 styrene

() LD50 5.000 / ()

() LD50 2.001 / ()

() LC50/4 . 11,8 / ()

108-88-3 toluene

() LD50 5.000 / ()

() LD50 12.124 / ()

() LC50/4 . 25,7 / ()

67-64-1 acetone

() LD50 5.800 / ()

() LD50 20.000 / ()

() LC50/4 . 76 / ()

57-55-6 propane-1,2-diol

() LD50 20.000 / ()

() LD50 2.001 / ()

141-78-6 ethyl acetate

() LD50 4.934 / ()

() LD50 20.001 / ()

() LC50/4 . 1.600 / ()

LC0 22,6 ppm ()

Solvent naphtha (petroleum), light arom.

() LD50 6.801 / ()

() LD50 3.401 / (rab)

() LC50/4 . 20,1 / ()

78-93-3 butanone

() LD50 2.001 / ()

(11)

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10)

()	LD50	5.001 / ()
()	LC50/4	21 / ()
108-31-6 maleic anhydride		
()	LD50	400 / ()
()	LD50	2.620 / ()

12:**12.1**

100-42-5 styrene		
EC50	4,9 / ()	(72 .)
	4,7 / ()	(48 .)
LC50 (96 .)	4,02 / ()	
108-88-3 toluene		
EC50	134 / ()	(96 .)
	3,78 / ()	(48 .)
LC50 (96 .)	5,5 / ()	
67-64-1 acetone		
EC50	8.800 / ()	
LC50 (96 .)	5.540 / ()	
57-55-6 propane-1,2-diol		
EC50	19.000 / ()	(48 .)
	18.340 / ()	(48 .)
LC50 (96 .)	40.613 / ()	
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 / ()	
108-31-6 maleic anhydride		
EC50	29 / ()	(72 .)
	42,8 / ()	(48 .)

12)

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(11)

LC50 (96 .) 75 / ()

· 12.2

100-42-5	styrene	.
108-88-3	toluene	.
67-64-1	acetone	.

· 12.3

· 12.4

· 12.5

PBT (

) vPvB ()

· PBT:

· vPvB:

· 12.6

11.

· 12.7

2 (-):

13:

()

· 13.1

080111

14:

()

· 14.1

UN

· ADR, IMDG, IATA

UN1263

· 14.2

· ADR

· IMDG, IATA

PAINT

(13)

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: .

(12)

· 14.3

· ADR, IMDG, IATA



: 3
: 3

· 14.4

· ADR, IMDG, IATA

II

· 14.5

: :

· 14.6

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

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15:

· 15.1

1907/2006 1272/2008
2012/18/EU

1: 5000
2: 50000

· P

· 15.2

16:

- H225
- H226
- H302
- H304
- H314
- H315
- H317
- H319
- H332
- H334

- H335
- H336
- H361d
- H372

H373

H412
EUH066

EUH071

: IVM Chemicals Srl

: Claudia Zanella

ADR: Accord relatif au transport international 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 Corr. 1B: Skin corrosion/irritation . Category 1B
 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
 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

1272/2008/EC

ECHA -

INRS Fiche Toxicologique

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