

1

- 1.1 $\neq$ $\leq$ $\sqrt{0.001} \approx 0.0316$ $\sum \sqrt{0.001} \geq 20$
- 1.2 $\leq$ $\sqrt{0.001} \approx 0.0316$ $\sum \sqrt{0.001} \geq 20$
- 1.3 $\leq$ $\sqrt{0.001} \approx 0.0316$ $\sum \sqrt{0.001} \geq 20$
- 1.4 $\leq$ $\sqrt{0.001} \approx 0.0316$ $\sum \sqrt{0.001} \geq 20$

2

- 2.1 $\leq$ $\sqrt{0.001} \approx 0.0316$ $\sum \sqrt{0.001} \geq 20$
- 2.2 $\leq$ $\sqrt{0.001} \approx 0.0316$ $\sum \sqrt{0.001} \geq 20$

TO800
 $\leq \sqrt{r} - r - \sqrt{\sum r} \sqrt{\infty} \geq 20$

1)

- *isobutyl acetate*
- *ethyl acetate*
- *butanone*
- *H225* $\geq$
- *H315* $\sqrt{}$
- *H319* $\sqrt{}$
- *H336* Δ
- *H373* Δ
- *P210* -
- *P241* $\neq$
- *P303+P361+P353* $\neq$
- *P305+P351+P338* $\neq$
- *P405*
- *P501*
- *EUH208* | Reaction mass of Fatty acids, tall-oil, compds. with oleylamine and Fatty acids, C18-unsatd., trimers, compds. with oleylamine. Δ
- 2.3 *PBT* (vPvB)
- *PBT*: r
- *vPvB*: r

3

- 3.2
-
-

CAS: 110-19-0 EINECS: 203-745-1 Reg.nr.: 01-2119488971-22-XXXX	<i>isobutyl acetate</i> Δ Flam. Liq. 2, H225 Δ STOT SE 3, H336	20-<25%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-XXXX	<i>xylene</i> Δ Flam. Liq. 3, H226 Δ STOT RE 2, H373; Asp. Tox. 1, H304 Δ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	15-19,99%

3)

TO800
 $\sum \sqrt{C_i} \cdot \sqrt{L_i} \geq 20$

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	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	2,5-4,99%
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	1-2,499%
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	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	0,5-<1%
Reg.nr.: 01-2120101675-63-XXXX	Reaction mass of Fatty acids, tall-oil, compds. with oleylamine and Fatty acids, C18-unsatd., trimers, compds. with oleylamine STOT RE 2, H373 Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	0,1-<0,5%

16.

4

4.1

48

20

4)

TO800

$$\sum_{i=1}^n \sqrt{r_i} \cdot \sqrt{\infty} \geq 20$$

- 3) (החברה הישראלית לייצור חומרי גלם כימיים)
- 4.2. החברה הישראלית לייצור חומרי גלם כימיים, תאריך: 11.04.2017
- 4.3. החברה הישראלית לייצור חומרי גלם כימיים, תאריך: 11.04.2017

5. החברה הישראלית לייצור חומרי גלם כימיים

- 5.1. החברה הישראלית לייצור חומרי גלם כימיים, תאריך: 11.04.2017
- 5.2. החברה הישראלית לייצור חומרי גלם כימיים, תאריך: 11.04.2017
- 5.3. החברה הישראלית לייצור חומרי גלם כימיים, תאריך: 11.04.2017

6. החברה הישראלית לייצור חומרי גלם כימיים

- 6.1. החברה הישראלית לייצור חומרי גלם כימיים, תאריך: 11.04.2017
- 6.2. החברה הישראלית לייצור חומרי גלם כימיים, תאריך: 11.04.2017
- 6.3. החברה הישראלית לייצור חומרי גלם כימיים, תאריך: 11.04.2017
- 6.4. החברה הישראלית לייצור חומרי גלם כימיים, תאריך: 11.04.2017

7. החברה הישראלית לייצור חומרי גלם כימיים

- 7.1. החברה הישראלית לייצור חומרי גלם כימיים, תאריך: 11.04.2017
- 7.2. החברה הישראלית לייצור חומרי גלם כימיים, תאריך: 11.04.2017
- 7.3. החברה הישראלית לייצור חומרי גלם כימיים, תאריך: 11.04.2017
- 7.4. החברה הישראלית לייצור חומרי גלם כימיים, תאריך: 11.04.2017
- 7.5. החברה הישראלית לייצור חומרי גלם כימיים, תאריך: 11.04.2017

TO800

$$\sum \frac{C_i}{L_i} \leq 1$$

4)

- 7.2
- 7.3

8

7.

8.1

1330-20-7 xylene	
PDK	$\frac{C_1}{L_1} + \frac{C_2}{L_2} + \frac{C_3}{L_3} \leq 1$
141-78-6 ethyl acetate	
PDK	$\frac{C_1}{L_1} + \frac{C_2}{L_2} + \frac{C_3}{L_3} \leq 1$
100-41-4 ethylbenzene	
PDK	$\frac{C_1}{L_1} + \frac{C_2}{L_2} + \frac{C_3}{L_3} \leq 1$
78-93-3 butanone	
PDK	$\frac{C_1}{L_1} + \frac{C_2}{L_2} + \frac{C_3}{L_3} \leq 1$
123-86-4 n-butyl acetate	
PDK	$\frac{C_1}{L_1} + \frac{C_2}{L_2} + \frac{C_3}{L_3} \leq 1$
108-88-3 toluene	
PDK	$\frac{C_1}{L_1} + \frac{C_2}{L_2} + \frac{C_3}{L_3} \leq 1$

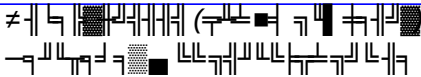
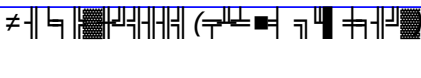
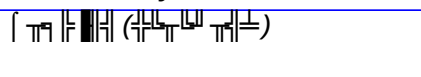
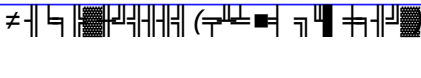
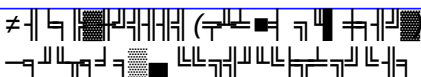
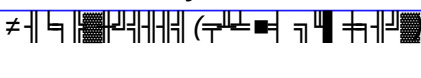
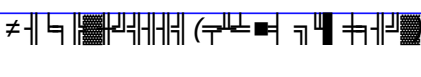
6)

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110-19-0 isobutyl acetate		
	DNEL DNEL	243 = $\frac{1}{4}mc$ (popolazione) 4, 9, 5 = $\frac{1}{4}bw/d$ (popolazione)
1330-20-7 xylene		
	DNEL acuto/agudo/ostre/aigu/acute/akut DNEL DNEL	289 = $\frac{1}{4}mc$ (popolazione) 77 = $\frac{1}{4}mc$ (popolazione) 180 = $\frac{1}{4}bw/d$ (popolazione)
141-78-6 ethyl acetate		
	DNEL DNEL acuto/agudo/ostre/aigu/acute/akut DNEL DNEL	4, 5 = $\frac{1}{4}bw/d$ (popolazione) 1468 = $\frac{1}{4}mc$ (popolazione) 734 = $\frac{1}{4}mc$ (popolazione) 734 = $\frac{1}{4}mc$ (popolazione) 367 = $\frac{1}{4}mc$ (popolazione) 63 = $\frac{1}{4}bw/d$ (popolazione) 37 = $\frac{1}{4}bw/d$ (popolazione)
100-41-4 ethylbenzene		
	DNEL acuto/agudo/ostre/aigu/acute/akut DNEL DNEL	293 = $\frac{1}{4}mc$ (popolazione) 77 = $\frac{1}{4}mc$ (popolazione) 180 = $\frac{1}{4}bw/d$ (popolazione)
78-93-3 butanone		
	DNEL DNEL	600 = $\frac{1}{4}mc$ (popolazione) 1161 = $\frac{1}{4}bw/d$ (popolazione)
123-86-4 n-butyl acetate		
	DNEL acuto/agudo/ostre/aigu/acute/akut DNEL	960 = $\frac{1}{4}mc$ (popolazione) 859,7 = $\frac{1}{4}mc$ (popolazione) 480 = $\frac{1}{4}mc$ (popolazione) 102,34 = $\frac{1}{4}mc$ (popolazione)
108-88-3 toluene		
	DNEL acuto/agudo/ostre/aigu/acute/akut DNEL	384 = $\frac{1}{4}mc$ (popolazione) 192 = $\frac{1}{4}mc$ (popolazione)
		
110-19-0 isobutyl acetate		
PNEC Acqua dolce/water/woda s $\acute{c}$ odka/eau/agua	0,17 = $\frac{1}{4}L$ ()	
PNEC Suolo/earth/suelo/sol/gleba/	0,0755 = $\frac{1}{4}L$ ()	

(1 2 3 4 5 6 7)

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$$\sum \frac{C_i}{L_i} \leq 1$$

$$\sum \frac{C_i}{L_i} \geq 20$$

6)

1330-20-7 xylene	
PNEC Acqua dolce/water/woda sŕodka/eau/agua	0,327 g/L ()
PNEC Suolo/earth/suolo/sol/gleba/	2,31 g/L ()
141-78-6 ethyl acetate	
PNEC Acqua dolce/water/woda sŕodka/eau/agua	0,26 g/L ()
PNEC Suolo/earth/suolo/sol/gleba/	0,24 g/L ()
100-41-4 ethylbenzene	
PNEC Acqua dolce/water/woda sŕodka/eau/agua	0,1 g/L ()
PNEC Suolo/earth/suolo/sol/gleba/	2,68 g/L ()
78-93-3 butanone	
PNEC Acqua dolce/water/woda sŕodka/eau/agua	55,8 g/L ()
PNEC Suolo/earth/suolo/sol/gleba/	22,5 g/L ()
123-86-4 n-butyl acetate	
PNEC Acqua dolce/water/woda sŕodka/eau/agua	0,18 g/L ()
PNEC Suolo/earth/suolo/sol/gleba/	0,0903 g/L ()
108-88-3 toluene	
PNEC Acqua dolce/water/woda sŕodka/eau/agua	0,68 g/L ()
PNEC Suolo/earth/suolo/sol/gleba/	2,89 g/L ()

8.2



()

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8)

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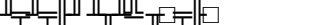
9.1 ≠ $\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2}$

-

$\int \frac{1}{\sqrt{1-x^2}} dx = \arcsin x + C$

- **התורה**
• **התורה**

pH:

$\leq$ 


-4 °C

[illegible]

•  $>300\text{ }^{\circ}\text{C}$

הַיְיָ יֵשׁוּעַ אֱלֹהֵינוּ וְהַיְיָ יֵשׁוּעַ אֱלֹהֵינוּ.

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• 
 • 
 • 

1,0  %
 11,5  %

· $\int \frac{1}{x} dx = \ln|x| + C$ 20 °C: 105 4 | 3

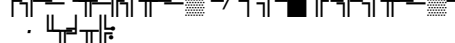
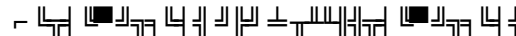
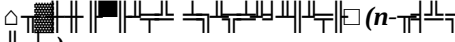
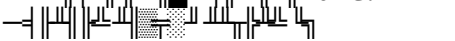
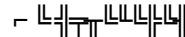
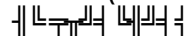
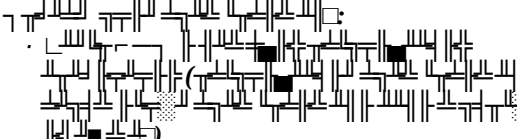
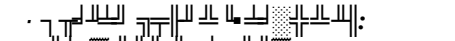
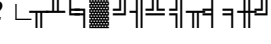
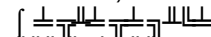
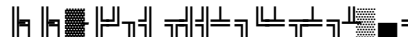
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 (n-) / :	
   20 °C: 	 <i>55 s (ISO 6 mm)</i> 
 - VOC (EC)	 53,10 % 531,0 
 9.2 	 46,9 %  

10 |

- **10.1**
- **10.2**
- **10.3**
- **10.4**
- **10.5**
- **10.6**

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- 11.1 $\neq$

[illegible]

110-19-0 isobutyl acetate

LD50	13400	mg/kg (rat/szczur/mouse/souris/Maus/rat ^{LD})
LD50	17401	mg/kg (rabbit/kr ^{LD} lik/Kaninchen/conejo/lapin)
LC50/4	31	mg/kg (rat/szczur/mouse/souris/Maus/rat ^{LD})

(1 2 3 4 5 6 7 8 9 10)

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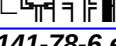
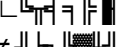
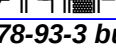
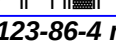
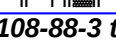
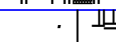
1330-20-7 xylene		
  	LD50	3523 $\frac{g}{kg}$ (rat/szczur/mouse/souris/Maus/rat ^u)
	LD50	1701 $\frac{g}{kg}$ (rabbit/kr ^u lik/Kaninchen/conejo/lapin)
141-78-6 ethyl acetate		
  	LD50	4934 $\frac{g}{kg}$ (rabbit/kr ^u lik/Kaninchen/conejo/lapin)
	LD50	20001 $\frac{g}{kg}$ (rabbit/kr ^u lik/Kaninchen/conejo/lapin)
	LC50/4 $\frac{g}{m^3}$	1600 $\frac{g}{kg}$ (rat/szczur/mouse/souris/Maus/rat ^u)
	LC0	22,6 ppm (mouse)
100-41-5 ethylbenzene		
  	LD50	3500 $\frac{g}{kg}$ (rat/szczur/mouse/souris/Maus/rat ^u)
	LD50	15486 $\frac{g}{kg}$ (rabbit/kr ^u lik/Kaninchen/conejo/lapin)
	LC50/4 $\frac{g}{m^3}$	17,2 $\frac{g}{kg}$ (rat/szczur/mouse/souris/Maus/rat ^u)
78-93-3 butanone		
  	LD50	2001 $\frac{g}{kg}$ (rat/szczur/mouse/souris/Maus/rat ^u)
	LD50	5001 $\frac{g}{kg}$ (rabbit/kr ^u lik/Kaninchen/conejo/lapin)
	LC50	21 $\frac{g}{kg}$ (rat/szczur/mouse/souris/Maus/rat ^u)
123-86-4 n-butyl acetate		
  	LD50	10760 $\frac{g}{kg}$ (rat/szczur/mouse/souris/Maus/rat ^u)
	LD50	14000 $\frac{g}{kg}$ (rabbit/kr ^u lik/Kaninchen/conejo/lapin)
	LC50/4 $\frac{g}{m^3}$	21,1 $\frac{g}{kg}$ (rat/szczur/mouse/souris/Maus/rat ^u)
108-88-3 toluene		
  	LD50	5000 $\frac{g}{kg}$ (rat/szczur/mouse/souris/Maus/rat ^u)
	LD50	12124 $\frac{g}{kg}$ (rabbit/kr ^u lik/Kaninchen/conejo/lapin)
	LC50/4 $\frac{g}{m^3}$	25,7 $\frac{g}{kg}$ (rat/szczur/mouse/souris/Maus/rat ^u)

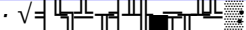
Figure 1

$\sqrt{\frac{1}{2}}$

$\sqrt{\frac{1}{2}}$

12

• **12.1**

	
110-19-0 isobutyl acetate	
EC50	370 = 4/10 (4/10: 100% mortality, 4/10: 0% mortality) (72 = 4/10)
	25 = 4/10 (daphnia)
LC50 (96h)	17 = 4/10 (100% mortality, 100%)
141-78-6 ethyl acetate	
EC50	165 = 4/10 (daphnia) (48 = 4/10)
LC50 (96h)	230 = 4/10 (100% mortality, 100%)
100-41-4 ethylbenzene	
EC50	75 = 4/10 (daphnia) (48 = 4/10)

$$(1 \ 2 \ 3 \ 4 \ 5 \ 6 \ 7 \ 8 \ 9 \ 10 \ 11)$$

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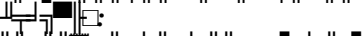
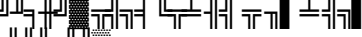
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78-93-3 butanone	
EC50	2029 = ȳ f(ȳ f f f f f f f f f) (96 f)
	308 = ȳ f(daphnia) (48 f)
LC50 (96f)	2993 = ȳ f(f f)
123-86-4 n-butyl acetate	
EC50	648 = ȳ f(ȳ f f f f f f f f f) (72 f)
	44 = ȳ f(daphnia) (48 f)
LC50 (96f)	18 = ȳ f(f f)
108-88-3 toluene	
EC50	134 = ȳ f(ȳ f f f f f f f f f) (3 f)
	3,78 = ȳ f(daphnia) (48 f)
	58 = ȳ f(f f)

- 12.2 *Toluene* CAS n. 108-88-3
(OECD)
- 12.3
- 12.4
- 12.5 *PBT* (*vPvB*)
 - PBT*:
 - vPvB*:
- 12.6

13 -

- 13.1 $\triangle$  

— RU

[illegible]

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 $\leq \sqrt{r} - r - \sqrt{\Delta} \sum r \sqrt{\infty} \geq 20$

11)

14

14.1 UN

ADR, IMDG, IATA

UN1263

14.2

ADR

UN1263 ≤ Σ ≤ Σ, 640D

IMDG, IATA

PAINT

14.3

ADR, IMDG, IATA



3

3 ≥

14.4

ADR, IMDG, IATA

II

14.5

14.6

≥

33

EMS:

F-E, S-E

Stowage Category

B

14.7

MARPOL 73/78
 IBC Code

ADR

(LQ)

(EQ)

5L

E2

30

500

2

D/E

IMDG

Limited quantities (LQ)

5L

13)

RU

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(| 1 2 3 4 5 6 7 8 9 10 11 12)

- **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 = 11

Maximum net quantity per outer packaging: 500 = 11

- **UN "Model Regulation":**

UN 1263 $\leq -\sum | \leq \sum, | \int \cap |. | \int \geq | \int \cap \neq$
640D, 3. II

15 |

[illegible]

2012/18/EU

1: 5000 ±

[illegible]

15.2 $\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2}$

16 |

[illegible][illegible]

H226 ✓

H302 √

H304

H312

H315 √

H317

H319 $\sqrt{\frac{1}{\rho}}$

H332

H335

H336

H361d |

H373                               

H412

IVM Chemicals Srl

•                                                                                          

$$\cdot \sqrt{\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right)} = \frac{1}{2}$$

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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

[illegible]

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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 ñ Category 2
 Flam. Liq. 3: Flammable liquids ñ Category 3
 Acute Tox. 4: Acute toxicity ñ Category 4
 Skin Irrit. 2: Skin corrosion/irritation ñ Category 2
 Eye Irrit. 2: Serious eye damage/eye irritation ñ Category 2
 Skin Sens. 1: Skin sensitisation ñ Category 1
 Repr. 2: Reproductive toxicity ñ Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) ñ Category 3
 STOT RE 2: Specific target organ toxicity (repeated exposure) ñ Category 2
 Asp. Tox. 1: Aspiration hazard ñ Category 1
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard ñ Category 3

1272/2008/EC

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