

: 15.02.2017

: 15.02.2017

**1**

· 1.1

TX168

· 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



Acute Tox. 4 H332  
Eye Irrit. 2 H319  
Skin Sens. 1 H317

· 2.2

(EC) 1272/2008

(CLP).



GHS02 GHS07

Homopolymers of HDI

H225  
H332  
H319

: 15.02.2017

: 15.02.2017

**TX168**

H317

P210

P241

P303+P361+P353

P305+P351+P338

P403+P235

P501

EUH204

2.3

PBT (

) vPvB

PBT:

vPvB:

**3**

3.2

CAS: 28182-81-2 NLP: 500-060-2 Reg.nr.: 01-2119485796-17-XXXX	Homopolymers of HDI ⚠ Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	50-69,99%
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	25-29,99%
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	10-14,99%

16.

**4**

4.1

48

3)

RU

: 15.02.2017

: 15.02.2017

**TX168**

:

( 2)

· 4.2

· 4.3

. 11

**5**

· 5.1

· 5.2

· 5.3

**6**

( )

· 6.1

· 6.2

· 6.3

· 6.4

7.

8.

13.

13.

: 15.02.2017

: 15.02.2017

**TX168**

( 3)

**7**

· 7.1

· 7.2

· 7.3

**8**

· 8.1

<b>123-86-4 n-butyl acetate</b>	
PDK	: 200 /m <sup>3</sup> : 50 /m <sup>3</sup>
<b>78-93-3 butanone</b>	
PDK	: 400 /m <sup>3</sup> : 200 /m <sup>3</sup>
<b>DNEL</b>	
<b>28182-81-2 Homopolymers of HDI</b>	
( )	DNEL acuto/agudo/ostre/ aigu/acute/akut
	DNEL 1 /mc ( ) 0,5 /mc ( )
<b>123-86-4 n-butyl acetate</b>	
( )	DNEL acuto/agudo/ostre/ aigu/acute/akut
	960 /mc ( )

5)

RU

: 15.02.2017

: 15.02.2017

**TX168**

	DNEL	859,7 /mc (popolazione) 480 /mc ( ) 102,34 /mc (popolazione)
<b>78-93-3 butanone</b>		
( )	DNEL DNEL	600 /mc ( ) 1 1 6 1 / b w / d ( )

**PNEC**

**28182-81-2 Homopolymers of HDI**

PNEC Acqua dolce/water/woda słodka/eau/agua 0,127 /L ( )

**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 / ( )

**8.2**



EN 374

89/686/

: 15.02.2017

: 15.02.2017

**TX168**



**9**

· 9.1

**pH:**

79 °C

-4 °C

370 °C

1,2 . %  
11,5 . %

20 °C:

105

20 °C:

1,05 /cm<sup>3</sup>

7)

RU

**TX168**

( 6)	
/	:
):	(n- /
20 °C:	29 s (ISO 3 mm)
VOC (EC)	35,07 % 368,3 /
9.2	64,9 %

<b>10</b>
10.1
10.2
/ , :
10.3
10.4
10.5
10.6

<b>11</b>
11.1
LD/LC50 ( / ),
<b>28182-81-2 Homopolymers of HDI</b>
( ) LD50 2501 / (rat/szczur/mouse/souris/Maus/rat n)
( ) LD50 2001 / (rabbit/kr lik/Kaninchen/conejo/lapin)

: 15.02.2017

: 15.02.2017

**TX168**

<b>123-86-4 n-butyl acetate</b>		
( )	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)
<b>78-93-3 butanone</b>		
( )	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)

**12**

· 12.1

<b>28182-81-2 Homopolymers of HDI</b>	
EC50	1001 / ( ) (72 .)
	127 / (daphnia) (48 .)
LC50 (96 .)	100 / ( )
<b>123-86-4 n-butyl acetate</b>	
EC50	648 / ( ) (72 .)
	44 / (daphnia) (48 .)
LC50 (96 .)	18 / ( )
<b>78-93-3 butanone</b>	
EC50	2029 / ( ) (96 .)
	308 / (daphnia) (48 .)
LC50 (96 .)	2993 / ( )

· 12.2

· 12.3

· 12.4



: 15.02.2017

: 15.02.2017

**TX168**

:

( 8)

1 ( - ):

· 12.5

**PBT** (

) vPvB (

)

· **PBT:**

· **vPvB:**

· 12.6

**13**

· 13.1

080111

**14**

· 14.1 **UN**

· **ADR, IMDG, IATA**

UN1263

· 14.2

· **ADR**

UN1263

, . 640D

· **IMDG, IATA**

PAINT

· 14.3

· **ADR, IMDG, IATA**



3

3

· 14.4

· **ADR, IMDG, IATA**

II

· 14.5

:

:

· 14.6

:

( ):

33

( 10)

: 15.02.2017

: 15.02.2017

**TX168**

:

( 9)

· EMS: F-E, S-E  
· Stowage Category 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

**15**

· 15.1

1907/2006 1272/2008  
2012/18/EU

1: 5000

2: 50000

· P

· 15.2

**16**

H225

( 11)

RU

**TX168**

:

( 10)

H226

H317

H319

H332

H335

H336

: 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

Acute Tox. 4: Acute toxicity . Category 4

Eye Irrit. 2: Serious eye damage/eye irritation . Category 2

Skin Sens. 1: Skin sensitisation . Category 1

STOT SE 3: Specific target organ toxicity (single exposure) . Category 3

1272/2008/EC

ECHA -

INRS Fiche Toxicologique

.\*