



**30333-2007**

: 06.08.2018

B 6

: 11.07.2018

\* **1**

· **1.1**

**: TRW Break Cleaner Spray**

: PFC105, PFC105E

· **1.2**

· **1.3**

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· **1.4**

Giftnotruf Muenchen  
Tel: +49 (0)89-19240

\* **2**

· **2.1**

( ) **1272/2008**



1 H222-H229



2 H361

1 H304

2)

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( 1)



2 H411



2 H315

3 H336

5 H313

2 H401

**2.2**

(EC) 1272/2008

(CLP).



GHS02



GHS07



GHS08



GHS09

H222-H229

H313

H315

H361

H336

H304

H411

P210

P211

P251

( 3)

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P260 ( 2)  
 P271  
 P280 /  
 P302+P352 :  
 P304+P340 :  
 P312 /  
 P410+P412  
 50°C/122°F.  
 2.3  
 PBT ( )  
 vPvB ( )  
 PBT:  
 vPvB:

**\* 3 ( )**

3.2 :  
 :

	( )	50 - 100%
	1, H304; 2, H225; 2, H411; 2, H315; - 3, H336; 5, H313; 2, H401	
124-38-9	, H280	2,5 - 10%
110-54-3	2, H361; 2, H225; 2, H373; 1, H304; 2, H315; - 3, H336; 5, H313; 2, H401	≥ 2,5 - < 5%

16.

**4**

4.1

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- : .
- **4.2** , , .
- **4.3** - .

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**5**

- **5.1** : . , .
- **5.2** , . : .
- **5.3** / . / .
- : . , .
- , . , .
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**6**

· 6.1

· 6.2

· 6.3

· 6.4

13.

7.

8.

13.

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**7**

· 7.1

· 7.2

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· 7.3 ( ) ( 5)

**8**

· 8.1

<b>124-38-9</b>	
PDK	( ): 9000 /m <sup>3</sup> ( ): 27000 /m <sup>3</sup>
<b>110-54-3</b>	
PDK	( ): 900 /m <sup>3</sup> ( ): 300 /m <sup>3</sup>

<b>DNEL</b>		
( )		
( )	DNEL (consumer, long-term, systemic)	699 / bw/day ( )
( )	DNEL (worker, long-term, systemic)	773 / bw/day ( )
( )	DNEL (consumer, long-term, systemic)	699 / bw/day ( )
( )	DNEL (worker, long-term, systemic)	2.035 /m <sup>3</sup> ( )
( )	DNEL (consumer, long-term, systemic)	608 /m <sup>3</sup> ( )

· 8.2



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AX.

( 6)



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/

0,4

480



9

<p>9.1</p> <p>pH:</p> <p>&lt; 0 °C</p> <p>328 °C</p>
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( 8)

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		( 7)	
·	:	1,1	·%
·	:	12,0	·%
·	<b>20 °C:</b>	8300	
·	:		:
·	:	/	
·	/ ):	(n-	
·	:		
·	:		
·	<b>9.2</b>		

**10**

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

**11**

- 11.1

·	<b>LD/LC50</b> ( / ),	
·	( )	
( )	LD50	> 5.840 / ( )
( )	LD50	> 2.800 / ( )
( )	LC50	> 25,2 / /4 .( )

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<b>110-54-3</b>		( ) 8)	
( )	LD50	> 16.000 / ( )	(OECD 401)
( )	LD50	> 2.000 / ( )	
( )	LC50	> 17.600 / /24 . ( )	(OECD 403)

<b>110-54-3</b>		( )	
( )	NOAEC (90d)	24.300 /m <sup>3</sup> ( )	(OECD 413)
( )	NOAEL (90d)	1.135 / bw/day ( )	
( )	NOAEC (90d)	1.760 /m <sup>3</sup> ( )	(OECD 413)

2

**12**

**12.1**

<b>12.1</b>		( )	
EC50 ( )	3 / /48 .	(Daphnia magna)	(OECD 202)
LC50	11,4 / /96 .	(Oncorhynchus mykiss)	(OECD 203)
EC50 ( )	> 10 / /72 .	(Pseudokirchneriella subcapitata)	(OECD 201)

**12.2**

**12.3**

**12.4**

( 10)

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1 ( ) : ( ( ' ) )<sup>9)</sup>

- 12.5 ) vPvB ( PBT ( )
- PBT:
- vPvB:
- 12.6

**13 ( )**

- 13.1
- :
- :
- :

**\* 14 ( )**

· 14.1 UN	
· ADR, IMDG, IATA	UN1950
· 14.2	
· ADR	1950 ,
· IMDG	AEROSOLS (Naphtha (petroleum), hydrotreated light), MARINE POLLUTANT
· IATA	AEROSOLS, flammable
· 14.3	
· ADR	
	
	
·	2 5F
·	2.1

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<p>· <b>IMDG</b></p> 	
<p>· <b>Class</b></p> <p>· <b>Label</b></p>	<p>2.1</p> <p>2.1</p>
<p>· <b>IATA</b></p> 	
<p>· <b>Class</b></p> <p>· <b>Label</b></p>	<p>2.1</p> <p>2.1</p>
<p>· <b>14.4</b></p> <p>· <b>ADR, IMDG, IATA</b></p>	
<p>· <b>14.5</b></p> <p>·</p> <p>·</p> <p>· (ADR): ( )</p>	
<p>· <b>14.6</b></p> <p>·</p> <p>· <b>EMS:</b> ( ):</p> <p>· <b>Stowage Code</b></p> <p>· <b>Segregation Code</b></p>	
	<p>-</p> <p>F-D,S-U</p> <p>SW1 Protected from sources of heat.</p> <p>SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.</p> <p>SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.</p>

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		(	11)
<b>· 14.7</b>			
		<b>II</b>	
<b>MARPOL73/78 (</b>			
		<b>) IBC Code (</b>	
		<b>)</b>	
-----			
<b>· ADR</b>		<b>:</b>	
		<b>(LQ) 1L</b>	
		<b>(EQ) : E0</b>	
		<b>2</b>	
		<b>D</b>	
-----			
<b>· IMDG</b>			
<b>· Limited quantities (LQ)</b>		1L	
<b>· Excepted quantities (EQ)</b>		Code: E0	
		Not permitted as Excepted Quantity	
<b>· UN "Model Regulation":</b>		UN 1950 , 2.1,	

**15**

**· 15.2**

**16**

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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

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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)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

1: Aerosols – Category 1

: Gases under pressure – Liquefied gas

2: Flammable liquids – Category 2

5: Acute toxicity – Category 5

2: Skin corrosion/irritation – Category 2

2: Reproductive toxicity – Category 2

- 3: Specific target organ toxicity (single exposure) – Category 3

- 2: Specific target organ toxicity (repeated exposure) – Category 2

1: Aspiration hazard – Category 1

2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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