

: -

1907/2006/

1:

1.1

1.2

1.3.

:
e

. - - 11
-69514

+49/6201/708-(0)-503

+49/6201/708-427

sicherheitsdatenblaetter@detia-degesch.de

1.4.

:

+49/6201/708-(0)-503

2:

2.1.

GHS02, GHS06, GHS09



:

:

H260 -

H300 -

H311 -

H319 -

H400 -

:-

EUH029 -
EUH032 -

P223:

P232:

P234:

P273:

P280:

P301+P310:

P321:
(. Ventolair® 100)

P335:

P370+P378:

P402+P404:

P405:

P501:

67/548/

1999/45/

F, T+, N



R- :

15/29 -

21 -

26/28 -

32 -

36 -

50 -

S- :

1/2 -

:-

3/9/14 -
30 -
36/37 -
45 -

61 -

2.2.

N . 1272/2008

2.3.

3:

3.1.

3.2.

/	/	/ R-	/ CAS-No
66% F, T+, N	R 15/29-21-28-32-50	CAS No. 12057-74-8	
>20% Xn	R 22-36	CAS-No. 1111-78-0	

4:

4.1

: , , ;

;

((Ventolair®)).

;

;

;

() .

(

).

4.2.

- , , ,

:-

4.3.

:
,
(
(Ventolair®).
/
.

5.

5.1

CO₂

5.2

,
:

()

5.3.

6.

6.1

,
,
.
.

6.2

,

6.3

. 13.

6.4.

-

7:

/

7.1

:

GefStoffV, TRGS500),

:

:-

- , / /
- /
-
-

7.2

(TRGS514).

VCI : 4.3

7.3

. 7.1 7.2

8.

/

8.1

(**TRGS900**)
 () : 0.1 ml/m³ (ppm), 0.14 mg/m³ CAS-No. 7803-51-2^(1b)
 : 0.02 3 ppm,
 (TRGS402)

:
 (DIN EN 141)
 :
 (AQL: 1.5), EN-374-2 EN374-3
 : (EN 166:2001)
 : BGR 189 (ATL: “
 ”)
 :

8.2.

. .6 7

:-

9.

9.1

:
 :
 : -
 :
 pH- (20⁰C):
 / (⁰C):
 / (⁰C): > 500⁰C ¹¹⁾
 , :
 ⁰C: / ,
 : : ,
 :
 : : 1,8 ^{1a)} (1.79-1.89)
 :
 :
 : : 34.6 bar (20⁰C) ⁹⁾
 :
 : 2,32 / ³
 :
 / : ,
 (n- /):

9.2

10.

10.1

10.2

10.3

: 13.01.2011

. 8/11

:-

Log Pow = 0.9 PH₃

12.4

12.5

(PBT (,)) vPvB ,
(,) .

12.6

: 2 -

13.

13.1

/ / : : #: 061301,
, #: 060316,
:

14.

:

14.1 UN
2011

14.2 UN
ADR/RID
UN 2011 , 4.3 (6.1), I, (E)

IMDG-
: 4.3 UN-No.: 2011 I
EmS- : F-G, S-N
: No. 4.3 = ; 6.1 =

ICAO-TI/IATA-DGR
(IMDG-) : 487

:-

14.3

: , 4 =
=

14.4

: I

14.5

:
ADR/RID/ IMDG- / ICAO-TI/IATA-DGR
: . 1 / , 15 /

14.6

: 20
: 3.4 No. 3 GGAV
:

14.7

II MARPOL73/78 IBC –

15.

15.1

, /
,
2037/2000/ (,):
689/2008/ ():
:
(GefStoffV) TRGS500
TRGS514 ()
TRGS900
: 2 –

15.2

. CA-

: 13.01.2011

. 10/11

:-

16.

‘ N 31.5.2010

L133/43

453/2010

:

1999/45/ ,
67/548/ ,
1907/2006/ / REACH,
1272/2008 / ,

1907/2006
2009/2/
453/2010
790/2009.

.2 3:

1272/2008

GHS02, GHS06, GHS09

H260 -
H300 - e
H311 -
H319 -
H400 -
EUH029 -
EUH032 -

67/548/

15/29 -
21 -
26/28 -
32 -
36 -
50 -

=

: -

:

- 1) WHO Environmental Health Criteria 73: Phosphine and Selected Metal Phosphides: a) S 18, b) S 17+72, c) S 75
 - 2) International Bio-Research Inc., D-Hannover: Acute oral toxicity of Magnesium phosphide in rats (01.01.1977)
 - 3) Hazleton Laboratories America, Inc.: Acute oral toxicity study in rats of Degesch Magtoxin formulation (1.12.1983)
 - 4) Waritz, R. S. & Brown, R. M. (1975): Acute and subacute inhalation toxicities of phosphine, phenylphosphine and triphenylphosphine; Am. Ind. Assoc. J., 36: 452-458.
 - 5) US Environmental Protection Agency: EPA chemical profile: Phosphine, Washington DC, 1985
 - 6) Laboratory for Pharmacology and Toxicology, D-Hamburg: Prüfung der akuten Toxizität von Magnesiumphosphid an Regenbogenforellen (24.11.1984)
 - 7) Ökolimna, D-Burgwedel: Daphnientoxizitätstest mit Magnesiumphosphid, 1986
 - 8) Frank, R.; Rippen, G.: Verhalten von Phosphin in der Atmosphäre, Lebensmitteltechnik Juli/August 1987
 - 9) Drägerwerk AG: Dräger-Röhrchen Handbuch: Boden-, Wasser- und Luftuntersuchungen sowie Technische Gasanalyse, Lübeck, 1993
 - 10) Bioagri Laboratórios Ltda.: Evaluation of skin sensitization of test substance DETIA GAS-EX-T - PASTILHAS DE 3g (27.07.2004)
 - 11) Siemens Axiva GmbH & Co. KG, D-Frankfurt am Main: Magnesium phosphide technical: Melting point, boiling point, vapour pressure (09.07.2002)
 - 12) Siemens Axiva GmbH & Co. KG, D-Frankfurt am Main: Magnesium phosphide technical: Relative density (09.07.2002)
 - 13) Siemens Axiva GmbH & Co. KG, D-Frankfurt am Main: Magnesium phosphide technical: Explosive properties. Auto-flammability (solids - determination of relative self-ignition temperature) (09.07.2002)
 - 14) Newton, P. E. (1998); report no. 750-001
 - 15) Cabrol Telle, A. M. et al. (1985), Fd. Chem. Toxic. 23 (11), 1001-1009
 - 16) K.Kasthuri Raman (2000): ALGA (Senastrum capricornutum), GROWTH INHIBITION TEST WITH MAGNESIUM PHOSPHIDE PELLET, JAI RESEARCH FOUNDATION, GUJARAT, INDIA, unpublished report number 2503, 10.03.2000
-
-