ICS 13.100
C52

GBZ

GBZ 2.1-2007

! " # $ % & ' ( ) * + , -

. / $ % & '

1 H J

G

K L M N O P Q R S T K L

U I V W X V Y Z [S \ ] ^ _ \ ` a b c d

e f g h i e j k l j

m K L n

2 G H o p X

q p X ? W r s t o u v W r w x y z { o p X

| } ~ • L v T " p X

D E w x ~ y z { o p X D E K L

GBZ 1 M N O

GBZ 159 ? e f G H

GBZ 160 2 f

3

3.1 occupa p. G260 T/TT6 2956 Tf10.32 0 Td(Av.)Tj/TT4 1;156 Tf16.88 0 Td(m\ T/TT5 .5 Tf10.7

3.4 work site

V Y R # S i u R X

3.5 chemical hazards

>

3.6 total dust

7 % i i
e Q A f

3.7 aerodynamic diameter d_{ae}

! 2 U [[Q R ?
j

3.8  respirable dust

e H L

2 3	4 5 6	7 5 6	. / 5 8 3 (CAS N	OELs 0 mg/m^3 1	

2 3	4 5 6	7 5 6	. / 5 8 3 (CAS No.)	OELs 0 mg/m³ 1			9 :
				MAC	PC-TWA	PC-STEL	
72.	1,1- 9 5 -1- X % * P	1,1-Dichloro-1-nitroethane	594-72-9	-	12	-	-
73.	1,3- 9 5 < =	1,3-Dichloropropanol	96-23-1	-	5	-	
74.	1,2- 9 5 < P	1,2-Dichloropropane	78-87-5	-	350	500	-
75.	1,3- 9 5 < :	1,3-Dichloropropene	542-75-6	-	4	-	G2B
76.	9 5 9 [- P	Dichlorodifluoromethane	75-71-8	-	5000	-	-
77.	9 5 - P	Dichloromethane	75-09-2	-	200	-	G2B
78.	9 5 * f	Dichloroacetylene	7572-29-4	0.4	-	-	-
79.	1,2- 9 5 * P	1,2-Dichloroethane	107-06-2	-	7	15	G2B
80.	1,2- 9 5 * :	1,2-Dichloroethylene	540-59-0	-	800	-	-
81.	9 g D 8	Diglycidyl ether	2238-07-5	-	0.5	-	-
82.	9 X % 6 (J T Y \ )	ohe	59-59-5	-			

0.5 (o)6j /TT0 9.48 96 36.24 • Td (o)Tj /TT0 9.9

82. (J T 9 X % 6

2 3	4 5 6	7 5 6	. / 5 8 3 (CAS No.)	OELs 0 mg/m³ 1			9 :
				MAC	PC-TWA	PC-STEL	
96.	9 Y * , - 6 . TDI	Toluene-2,4 -diisocyanate TDI	584-84-9	-	0.1	0.2	G2B
97.	9 l m , 9 @ % j	Dibutyltin dilaurate	77-58-7	-	0.1	0.2	
98.	n 9 V O o F 9 n p n q 9 r	Vanadium and compounds,as V Vanadium pentoxide fume dust Ferrovanadium alloy dust	7440-62-6 V	- -	0.05 1	- -	- -
99.	i	Phenol	108-95-2	-	10	-	
100.	s t	Furan	110-00-9	-	0.5	-	G2B
101.	[u F O	Hydrogen fluoride, as F	7664-39-3	2	-	-	-
102.	[(m v [u)(F O)	Fluorides(except HF) , as F		-	2	-	-
103.	w 9 Zr O	Zirconium and compounds, as Zr	7440-67-7 Zr	-	5	10	-
104.	x 9 Cd O	Cadmium and compounds, as Cd	7440-43-9 Cd	-	0.01	0.02	G1
105.	y-r z y S	Mercury metal vapor	7439-97-6	-	0.02	0.04	
106.	y- { y 9 (Hg O)	Mercury organic compounds, as Hg		-	0.01	0.03	
107.	| F Co O	Cobalt and oxides, as Co	7440-48-4 Co	-	0.05	0.1	G2B
108.	}	Phosgene	75-44-5	0.5	-	-	-
109.	~ • P	Decaborane	17702-41-9	-	0.25	0.75	
110.	t F 6 - A	Benzoyl peroxide	94-36-0	-	5	-	-
111.	t F u	Hydrogen peroxide	7722-84-1	-	1.5	-	-
112.	c _ 7	Cyclohexylamine	108-91-8	-	10	20	-
113.	c _ =	Cyclohexanol	108-93-0	-	100	-	
114.	c _ >	Cyclohexanone	108-94-1	-	50	-	
115.	c _ P	Cyclohexane	110-82-7	-	250	-	-
116.	c F < P	Propylene Oxide	75-56-9	-	5	-	G2B
117.	c F 5 < P	Epichlorohydrin	106-89-8	-	1	2	G2A
118.	c F * P	Ethylene oxide	75-21-8	-	2	-	G1
119.	6 5	Yellow phosphorus	7723-14-0	-	0.05	0.1	-

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2 3	4 5 6	7 5 6 . / 5 8 3 (CAS No.)	MAC	PC-TWA		PC-STEL	9 :
	_ 9 =	Hexylene glycol	107-41-5	-	-	-	

2 3	4 5 6	7 5 6	. / 5 8 3 (CAS No.)	OELs 0 mg/m³ 1			9 :
				MAC	PC-TWA	PC-STEL	
177.	5 6	Chlorobenzene	108-90-7	-	50	-	-
178.	5 < >	Chloroacetone	78-95-5	4	-	-	
179.	5 < :	Allyl chloride	107-05-1	-	2	4	-
180.	$-5 @ 9 :	Chloroprene	126-99-8	-	4	-	G2B

2 3	4 5 6	7 5 6	. / 5 8 3 (CAS No.)	OELs 0 mg/m^3 1			9 :
				MAC	PC-TWA	PC-STEL	
201.	? 9 Mo 0	Molybdeum and compounds, as Mo	7439-98-7 Mo				
	? m 8 9	Molybdeum and insoluble compounds		-	6	-	-
	7 8 9	soluble compounds		-	4	-	-
202.	5	Demeton	8065-48-3	-	0.05	-	
203.	1	Naphthalene	91-20-3	-	50	75	G2B
204.	2-1 i	2-Naphthol	2814-77-9	-	0.25	0.5	-
205.	1 P	Decalin	91-17-8	-	60	-	-
206.	@	Urea	57-13-6	-	5	10	-
207.	A > { 9 (Ni 0)	Nickel and inorganic compounds, as Ni					
	r z A B 8 A 9	Nickel metal and insoluble compounds	7440-02-0 Ni	-	1	-	G2B
	7 8 A 9	Soluble nickel compounds		-	0.5	-	-
208.	C 9 Be 0	Beryllium and compounds, as Be	7440-41 Tc (c)Tj0 Tc (8 ( )Tj0.0307 Tc (a))Tj0 Tc 96 16.08 Td(7440)Tj-0.15(8 ( )Tj0.035				

2 3	4 5 6	7 5 6	. / 5 8 3 (CAS No.)	OELs 0 mg/m³ 1			9 :
				MAC	PC-TWA	PC-STEL	
215.	u F I	Cesium hydroxide	21351-79-1	-	2	-	-
216.	* $ J	Calcium cyanamide	156-62-7	-	1	3	-
217.	* u CN O	Hydrogen cyanide,as CN	74-90-8	1	-	-	
218.	* CN O	Cyanides, as CN	460-19-5 (CN)	1	-	-	
219.	* d A .	Fenvalerate	51630-58-1	-	0.05	-	
220.	J [Y @ :	Perfluoroisobutylene	382-21-8	0.08	-	-	-
221.	K P	Nonane	111-84-2	-	500	-	-
222.	8 L M D	Solvent gasolines		-	300	-	-
223.	N , ? @ .	n-Butyl lactate	138-22-7	-	25	-	-
224.	- % X % 7 O P .	Cyclonite (RDX)	121-82-4	-	1.5	-	
225.	[5	Chlorine trifluoride	7790-91-2	0.4	-	-	-
226.	[•	Boron trifluoride	7637-07-2	3	-	-	-
227.	[- % [, .	Trifluoromethyl hypofluorite		0.2	-	-	-
228.	- 6 5 , .	Tricresyl phosphate	1330-78-5	-	0.3	-	
229.	1,2,3- 5 < P	1,2,3-Trichloropropane	96-18-4	-	60	-	G2A
230.	5 5	Phosphorus trichloride	7719-12-2	-	1	2	-
231.	5 - P	Trichloromethane	67-66-3	-	20	-	G2B

				OELs 0 mg/m^3 1			
2 3	4 5 6	7 5 6	. / 5 8 3 (CAS No.)	MAC	PC-TWA	PC-STEL	9 :

) 0 2 27.2 41832 Tc ( )Tj 0 Tc6Q B 00.397-2 Tc Tc (C)Tj

2 3	4 5 6	7 5 6	. / 5 8 3 (CAS No.)	OELs 0 mg/m³ 1			9 :
				MAC	PC-TWA	PC-STEL	
	g	Copper dust		-	1	-	-
	g p	Copper fume		-	0.2	-	-
265.	h m 8 9 W O	Tungsten and insoluble compounds, as W	7440-33-7 W				

2 3	4 5 6	7 5 6	. / 5 8 3 (CAS No.)	OELs 0 mg/m³ 1		
				PC-TWA	PC-STEL	9
286.	_ - P	Methyl bromide	74-83-9			
287.	_ * A .	Deltamethrin	52918-63-5			
288.	F J	Calcium oxide	1305-78-8			

2 3	4 5 6	7 5 6	. / 5 8 3 (CAS No.)	OELs 0 mg/m³ 1			9 :
				MAC	PC-TWA	PC-STEL	
312.	* , < .	Propyl acetate	109-60-4	-	200	300	-
313.	* , @ .	Butyl acetate	123-86-4	-	200	300	-
314.	* , - .	Methyl acetate	79-20-9	-	200	500	-
315.	* , d . J T Y \	Amyl acetate (all isomers)	628-63-7	-	100	200	-
316.	* , * : .	Vinyl acetate	108-05-4	-	10	15	G2B
317.	* , * .						

2 3	4 5 6	7 5 6	. / 5 8 3 (CAS No.)	OELs 0 mg/m³ 1			9 :
				MAC	PC-TWA	PC-STEL	
G2B 7 % Q d ! & 7 ' % ( ) e ! &			Possibly carcinogenic to humans				

4.2 ? [
? [! 2
! 2 ? [

2 3	4 5 6	7 5 6	. / 5 8 3 0 CAS No. 1	PC-TWA(mg/m³)		9 :
				; <	= <	
1.	* + ;	Dolomite dust		8	4	-
2.	, - .	Fiberglass reinforced plastic dust		3	-	-
3.	/	Tea dust		2	-	-
4.	0 SiO_2 * 1 O	Precipitated silica dust	112926-00-8	5	-	-
5.	a ;	Marble dust	1317-65-3	8	4	-
6.	2 3 p	Welding fume		4	-	G2B
7.	9 F 4	Titanium dioxide dust	13463-67-7	8	-	-
8.	5 ;	Zeolite dust		5	-	-
9.	i 1 6 .	Phenolic aldehyde resin dust		6	-	-
10.	((7 8 SiO_2 v ' <10%)	Grain dust(free SiO_2<10%)		4	-	-
11.	` 9 ;	Wollastonite dust	13983-17-0	5	-	-
12.	` : ; 7 8 SiO_2 v ' <10%	Diatomite dust(free SiO_2<10%)	61790-53-2	6	-	-
13.	< ; 7 8 SiO_2 v ' <10%	Talc dust (free SiO_2<10%)	14807-96-6	3	1	-
14.	1	Active carbon dust	64365-11-3	5	-	-
15.	b < :	Polypropylene dust		5	-	-
16.	b < : + j z	Polyacrylonitrile fiber dust		2	-	-
17.	b 5 * :	Polyvinyl chloride (PVC) dust	9002-86-2	5	-	-
18.	b * :	Polyethylene dust	9002-88-4	5	-	-
	=	Aluminum dust				
19.	= r z = 9 r F =	Metal 84 re f 188.88 277.2 0.48 15.84 re f 323.28 277.2 0.48 15.84 re f 395.28 2.08 re f BT /TT0 9.				

24.	B b SiO_2	Condensed silica dust		1.5	0.5	-
25.	C D ;	Bentonite dust	1302-78-9	6	-	-
26.	E	Fur dust		8	-	-
27.	Q F , - j z	Man-made vitreous fiber				
	, - @	Fibrous glass dust		3	-	-
	G H @	Slag wool dust		3	-	-
	I @	Rock wool dust		3	-	-
28.	J K L	Mulberry silk dust		8	-	-
29.	M N O	Grinding wheel dust		8	-	-
30.	; P	Gypsum dust	10101-41-4	8	4	-
31.	; 9 ;	Limestone dust	1317-65-3	8	4	-
32.	; @ ; @ v ' p 10%	Asbestos Asbestos p 10%				
		dust	1332-21-4	0.8	-	G1
	j z	Asbestos fibre		0.8f/ml	-	

2 3	4 5 6	7 5 6	. / 5 8 3 0 CAS No. 1	OELs			9 :
				MAC	PC-TWA	PC-STEL	
1	* c K d	Beauveria bassiana		6&10^7(d /m^3)	-	-	-
2	1 0 e 2 f * g	Subtilisins	1395-21-7 9014-01-1	-	15 ng/m^3	30 ng/m^3	

5 >, ? @

~ PC-STEL] t h

Q 9 PC-TWA N x PC-TWA 2

PC-TWA a i x PC-TWA 1.5~3 (! 4)

A 4 . / B C >, ? @ D PC-TWA E F G

PC-TWA mg/m^3	a
T 1	3
1	2.5
10~	2.0
j 100	1.5

6

f GBZ 159 ? e f G H

GBZ 160 2 f # k f Q > k G l 7 (b $

f m #

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A.10 PC-TWA f f
[| BMRC British Medical Research Council, BMRC 8 曲线