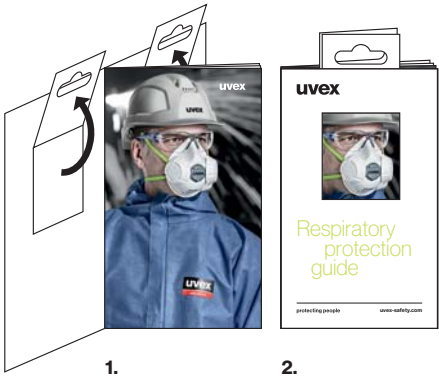


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Respiratory protection guide

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Definition of respiratory protection:

Respiratory protection generally refers to the part of personal protective equipment (PPE) that protects the wearer from respiratory poisons and environmental pollutants. Respiratory protection is generally used in the field of occupational safety. Respiratory devices are subdivided into filtering devices and breathing apparatus. Filtering face masks filter out harmful substances from the air, while breathing apparatus provides the wearer with their own supply of oxygen independent from the ambient air. If the harmful substance is known about and there is sufficient oxygen in the ambient air (at least 17 % vol.), filtering face masks are sufficient to work with. Otherwise, breathing apparatus such as forced-air respirators or compressed air breathing apparatus must be used. Please note that when choosing and using the right respiratory protection, a detailed analysis is required of the workplace and the hazardous substances used there. You cannot make the choice based solely on the information provided here. Legislation and legal requirements must be adhered to.

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Legal notice:

uvex assumes no liability for any damage that may result from the use of this respiratory protection guide, and particularly not for damage to health as a result of using the respiratory protection recommended by the guide. This respiratory protection guide cannot replace a risk assessment or purchase advice.



Standards:

The **"D" symbol** on the disposable face masks indicates that they meet the additional requirement of standard EN 149, the dolomite clogging test. This test checks whether the mask maintains a good level of breathing resistance after being subjected to high levels of dolomite dust. This means the "D" symbol is a quality indicator for the filter material used and ensures that a mask can be worn over a long period even at high levels of dust concentration.

The **"R" symbol** on a disposable face mask stands for reusable in accordance with standard EN 149. The cleanability of the masks is tested, so that the masks can also be used in a second work shift. If the mask is cleanable, it features the symbol "R", otherwise the symbol "NR" non reusable. In addition, there are also different requirements for the different protection classes concerning the seal of the masks (leakage) and other additional requirements, such as the maximum permitted level of breathing resistance. The standard always defines the minimum requirements; all uvex products significantly exceed these minimum requirements, thereby ensuring optimal wearing comfort and safety.

Overview of applications:

Activities	Harmful substances	Protection class		
		FFP1	FFP2	FFP3
Wood working				
Soft wood: Sanding and cutting	Fine particles, wood dust	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hard wood (oak, beech, tropical wood): Sanding and cutting	Fine particles, wood dust	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sanding/brushing off colour	Fine paint particles	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sanding/brushing off colour (paint containing chrome)	Fine paint particles	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Water-soluble paint containing copper/chrome/arsenic	Fine paint particles	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Construction and related industries				
Cement work, plastering, tiling, roofing	Cement/plaster/tile/brick dust	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Masonry: Cutting, drilling, demolition		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Asbestos: Working with small amounts	Fibres	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Roof insulation, glass and mineral fibres	Dust and fibres	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Putty/filler: sanding	Dust	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Welding work				
Stainless steel and aluminium welding	Metal and aluminium oxide smoke	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hard soldering	Smoke	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Metalworking				
Metal: Drilling, grinding, milling, angle grinding	Metal dust	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
High alloy steel/stainless steel: Drilling, grinding, milling, angle grinding	Metal dust	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Disposal/Cleaning work				
Waste sorting and disposal	Dust, fungi	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Disposal of medical waste	Bacteria, spores	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sweeping floors	Dust (not toxic)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Radioactive dust	Dust	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Agriculture				
Animal diseases/Handling sick animals	Bacteria, viruses	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Handling mould spores	Spores	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Handling hay, cereal, flour	Dust	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Medicine/Care/Health				
Allergies, pollen, house dust, pet hair	Dust, particles, spores	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bacteria, viruses, infections, Legionella	Bacteria, viruses	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Period of use:

Single use face masks are primarily suited for use in one shift – in other words a service life of eight hours. However, for special activities with toxic hazardous substances the masks can only be used once. This means that each time the mask is taken off, a new one must be used (for example, when working with carcinogenic substances). For sanitary reasons, single-use face masks should only be worn for one day by one person. Only masks with the "R" symbol can be hygienically cleaned with the special uvex cleaning spray, meaning they can be used for a second shift. When you use a mask, it gradually absorbs more and more particles, so the filter material becomes clogged over time. This continuously increases the breathing resistance of the mask. When there are high particle concentrations in the environment it may therefore also be necessary to use several masks in a day, as the masks quickly become clogged and the breathing resistance deteriorates.



Filter types:

uvex particle masks:

All uvex particle-filtering half masks are certified in accordance with the standard EN 149:2001 + A1:2009.

FFP1

Protects against non-toxic fine dust up to 4 times the limit value. All FFP1 masks are identified by the blue lettering on the valve and the imprint on the mask.



FFP2

Protects against low toxic fine dust up to 10 times the limit value. All FFP2 masks are identified by the orange lettering on the valve and the imprint on the mask.



FFP3

Protects against toxic fine dust up to 30 times the limit value. All FFP3 masks are identified by the black lettering on the valve and the imprint on the mask.



Classification of gas filters:

The gas filters and their fields of application are identified by different colours and letters.

A

Protects against gas and smoke, e.g. solvents such as turpentine, nitrocellulose thinner, petrol, tetrachloroethylene, toluene, xylene, with a boiling point > 65°C
Colour code: brown

B

Protects against inorganic gas and smoke, such as chlorine, bromine, hydrogen sulphide, etc.
Colour code: grey

E

Protects against acid gas and smoke, such as sulphur dioxide, hydrogen chloride, etc.
Colour code: yellow

K

Protects against ammonia and organic amines such as dimethylamine, etc.
Colour code: green

AX

Protects against low-boiling organic compounds with a boiling point ≤ 5°C.
Colour code: brown

Hg

Protects against mercury
Colour code: red



Mask range:

It is essential for the safety of the wearer to choose the right respiratory devices, a great deal of care should be taken in the decision. In order to choose the right filtering face masks, make sure you take note of each of the following points:

1. The type, composition and concentration of the hazardous substances must be determined or already known (take note of the CAS number)
2. What occupational exposure limits apply to the hazardous substances present?
3. The working conditions at the workplace must be determined or already known.
4. There must be sufficient oxygen in the environment (please take note of the applicable legal requirements, in Germany this is at least 17 % vol.).
5. In what state do the hazardous substances manifest: as gas, particles or a mixture?
6. What warning properties do the hazardous substances have (smell, taste, etc.)?
7. What additional personal protective equipment is necessary (e.g. safety spectacles, chemical protection suits, gloves)?

After consideration of these seven points, the necessary nominal protection factor (NPF) must be decided using the following formula:

Protection factor = harmful substance concentration/OEL
 (OEL = An occupational limit is an upper limit on the acceptable concentration of a hazardous substance in workplace air for a particular material or class of materials.)

After determining the NPF, the appropriate mask can be selected:

- **FFP1** masks for up to a maximum 4 times the protection factor
- **FFP2** masks for up to a maximum 10 times the protection factor
- **FFP3** masks for up to a maximum 30 times the protection factor

These values apply for Germany and may vary depending on the national regulations.

uvex preformed and folding masks are particularly well-suited for use in combination with uvex safety spectacles.

You can find more information about respiratory protection on ures.uvex.de/en



Hazardous substances:

Substance name	CAS no.	Limit value ml/m ³	Limit value mg/m ³	State	Filter type	uvex Face masks
Acetaldehyde	75-07-0	50	91	liquid	AX	
Acetic acid	64-19-7	10	25	liquid	E (A, B)	on request
Acetone	67-64-1	500	1200	liquid	AX	
Acetonitrile	75-05-8	20	34	liquid	A	on request
Acid gas				gas	E	on request
Acrolein	107-02-8	0,09	0,2	liquid	AX	
Acrylamide	79-06-1		0,07	solid	A/P3	on request
Acrylic acid	79-10-7	10	30	liquid	A	on request
Acrylonitrile	107-13-1		0,26	liquid	A	on request
Aluminium	7429-90-5		1,25	solid	P1	all P1 masks
Aluminium chloride				solid	P2	all P2 masks
Aluminium oxide (no fibres)	1302-74-5		1,25	solid	P1	all P1 masks
Aluminium oxide smoke (welding)				solid	P2/P3	all P2/P3 masks
Amine (C7-C9 aliph.)				liquid	A,K	on request
2-Aminobutane, see Butylamine				liquid	AX	
Ammonia	7664-41-7	20	14	gas/liquid	K	on request
Ammonium chloride				solid	P2	all P2 masks
Ammonium hydroxide, see ammonia					K	on request
Aniline	62-53-3	2	7,7	liquid	A	on request
Antimony	7440-36-0			solid	P3	all P3 masks
Arsenic trioxide (arsenic)				solid	P3	all P3 masks
Arsenous acid			0,1	solid	P3	all P3 masks
Arsenous acid salts			0,1	solid	P3	all P3 masks
Arsine	7784-42-1			gas	B (P3)	
Artificial mineral fibres				solid	P3	all P3 masks
Asbestos up to 100,000 F/m ³	1332-21-4			solid	P2/3	all P2/P3 masks
Asbestos up to 100,000 up to 300,000 F/m ³				solid	P3 VM	all P3 VM masks
Ash				solid	P2	all P2 masks
Atrazine	1912-24-9		1	solid	P2	all P2 masks
Bacteria risk group 2					P2	all P2 masks
Bacteria risk group 3					P3	all P3 masks
Barium compound, sol.			0,5	solid	P2	all P2 masks
Benzene	71-43-2	0,06	0,2	liquid	A	on request
Benzoic acid				solid	P2	all P2 masks
Benzo(a)pyrene	50-32-8		70	solid	P3	all P3 masks
Benzyl chloride, see a-chlorotoluene					B, A (P3)	on request
Beryllium	7440-41-7		0,005	solid	P3	all P3 masks
Biological agents risk group 2				solid	P2	all P2 masks
Biphenyl	92-52-4			solid	AP3	on request

Hazardous substances:

Substance name	CAS no.	Limit value ml/m ³	Limit value mg/m ³	State	Filter type	uvex Face masks
Bitumen, smoke/aerosols	8052-42-4			solid/gas	AP3	on request
Boric acid	10043-35-3		0,5	solid	P2	all P2 masks
Brass				solid	P2/P3	all P2/P3 masks
Bromine	7726-95-6		0,7	liquid	B	on request
1,3-Butadiene	106-99-0	0,2	0,5	gas	AX	
Butane	106-97-8	1000	2400	gas	AX	
Butanol		100	310	liquid	A	on request
Butanone	78-93-3	200	600	liquid	A	on request
2-Butoxyethanol	111-76-2	10	49	liquid	A	on request
2-Butoxyethyl acetate	112-07-2	20	130	liquid	A	on request
Butyl acetate		62	300	liquid	A	on request
Butylamine	141-32-2	2	6,1	liquid	A	on request
Cadmium and compounds	744-43-9		0,03	solid	P3	all P3 masks
Calcium carbonate				solid	P1	all P1 masks
Calcium hydroxide	1305-62-0		1	solid	P2	all P2 masks
Calcium oxide	1305-78-8		1	solid	P2	all P2 masks
Calcium sulphate	7778-18-9		6	solid	P2	all P2 masks
Carbon dioxide	124-38-9	5000	9100	gas	UU	
Carbon disulphide					B	on request
Carbon disulphide	75-15-0	10	30	liquid	B	on request
Carbon fibres				solid	P2	all P2 masks
Carbon monoxide	630-08-0	30	35	gas	CO	
Caustic alkali				solid/liquid	P2	all P2 masks
Cement				solid	P2	all P2 masksn
Chlorine	7782-50-5	0,5	1,5	gas	B	on request
Chloroacetic acid	79-11-8	1	4	liquid	E	on request
Chlorobenzene	108-90-7	10	47	liquid	A	on request
2-Chlorobuta-1,3-diene	126-99-8			liquid	AX	
1-chloro-2,3-epoxypropane	106-89-8	0,6	2,3	liquid	A	on request
Chloroform, see trichloromethane					AX	
3-Chloropropene	107-05-1			liquid	AX	
a-Chlorotoluene	100-44-7			liquid	B, A (P3)	on request
Chromium			0,05	solid	P3	all P3 masks
Cobalt			0,1	solid	P3	all P3 masks
Compound in respirable droplets			0,05		P3	all P3 masks
Concrete (spraying)					P2	all P2 masks
Copper	7440-50-8		0,01	solid	P2	all P2 masks
Corundum (aluminium oxide)			1,25	solid	P1	all P1 masks
Cotton dust			1,5	solid	P2	all P2 masks

Substance name	CAS no.	Limit value ml/m ³	Limit value mg/m ³	State	Filter type	uvex Face masks
Coxiella burnetii				solid	P3	all P3 masks
Cresol	1319-77-3			liquid	A	on request
Cristobalite, see quartz				solid	P3	all P3 masks
Cumene	98-82-8	20	100	liquid	A	on request
Cutting fluids				liquid	P2	all P2 masks
Cyanamide	420-04-2	0,2	0,35	solid	BP2	on request
Cyanide			2	solid	P2	all P2 masks
Cyclohexane	110-82-7	200	700	liquid	A	on request
Cyclohexanol	108-93-0			liquid	A	on request
Cyclohexanone	108-94-1	20	80	liquid	A	on request
Cyclohexylamine	108-91-8	2	8,2	liquid	A,K	
Cytostatics				solid	P3	all P3 masks
2,4-D	94-75-7		2	solid	P2/3	all P2/P3 masks
Decomposition products from plastics				solid/gas	ABEP3	on request
Demeton	8065-48-3	0,01	0,1	liquid	AP2	
Diacetone alcohol	123-42-2	20	96	liquid	A	on request
Diazinon	333-41-5		0,1	liquid	P3	all P3 masks
Dibenzodioxin					P3	all P3 masks
1,2 Dichlorobenzene	95-50-1	10	61	liquid	A	on request
1,1-Dichloroethene	75-35-4	2	8	liquid	AX	
1,2-Dichloroethene	540-59-0	200	800	liquid	AX	
Dichloromethane	75-09-2	75	260	liquid	AX	
Dichlorvos	62-73-7	0,11	1	liquid	AP2	on request
Dichromate					P3	all P3 masks
Diesel engine emissions			0,3	solid	P3	all P3 masks
Diesel fuel				liquid	A	on request
Diethyl ether	60-29-7	400	1200	liquid	AX	
Diethylamine	109-89-7	5	15	liquid	AX, K	
Diisopropyl ether	108-20-3	200	850	liquid	A	on request
Dimethoxymethane	109-87-5	1000	3200	liquid	AX	
Dimethylamine	124-40-3	2	3,7	gas	K	on request
3,3-Dimethylbenzidine	119-93-7	0,003	0,03	solid	(A) P3	on request
Dimethylformamide	68-12-2	5	15	liquid	A	on request
Dimethylnitrosamine	62-75-9		0,001	liquid	A (B) (P3)	on request
Dimethyl sulphate	77-78-1	0,02	0,1	liquid	A (P3)	on request
1,4-Dioxane	123-91-1	20	73	liquid	A	on request
Dipropylene glycol monomethyl ether	34590-94-8	50	310	liquid	A	on request
Disulfiram	97-77-8		2	solid	P2	all P2 masks
Disulphur dichloride	10025-67-9			liquid	B	on request

Substance name	CAS no.	Limit value ml/m ³	Limit value mg/m ³	State	Filter type	uvex Face masks
Enzyme				solid	P3	all P3 masks
Epichlorohydrin, see chloroexpropane	106-89-8			liquid	A	on request
2,3-Epoxy-1-propanol	556-52-5			liquid	A	on request
Epoxy resin				liquid	A	on request
Ethanol	64-17-5	500	960	liquid	A	on request
2-Ethoxyethanol (Cellosolve)	110-80-5	2	7,6	liquid	A	on request
2-Ethoxyethyl acetate	111-15-9	2	10,8	liquid	A	on request
Ethyl acetate	141-78-6	400	1500	liquid	A	on request
Ethyl acrylate	140-88-5	5	21	liquid	A	on request
Ethylamine	75-04-7	5	9,4	gas	K	on request
Ethylbenzene	100-41-4	20	88	liquid	A	on request
Ethylene glycol	107-21-1	10	26	liquid	AP2	on request
Ethyl formate	109-94-4	100	310	liquid	AX	
Fibre dust, anorganic					P2	all P2 masks
Fibre glass				solid	P2	all P2 masks
Flour dust				solid	P1/P2	all P1/P2 masks
Fluoride			1	solid	P2	all P2 masks
Fluorine	7782-41-4	1	1,6	gas	B	on request
Formaldehyde, formalin	50-00-0	0,3	0,37	gas	Spezial	
Formamide				liquid	A	on request
Formic acid	64-18-6	5	9,5	liquid	E, B	
Fuel (petrol)				liquid	A	on request
Fungal spores (risk group 2)				solid	P2	all P2 masks
Glutaraldehyde	111-30-8	0,05	0,2	liquid	AP2	on request
Graphite	7782		1,325	solid	P1	all P1 masks
Gypsum, see calcium sulphate				solid	P2	all P2 masks
Halogen					B	on request
Haloethan	151-67-7	5	41	liquid	AX	
Heptane	142-82-5	500	2100	liquid	A	on request
Hexachlorocyclohexane	319-84-6		0,5	solid	AP2	on request
Hexane	110-54-3	50	180	liquid	A	on request
Hexane isomers		500	1800	liquid	AX	
House dust (mites)				solid	P	all P1 masks
Hydrazine	302-01-2	0,1	0,13	liquid	K	on request
Hydrocarbons (PAK)				liquid/solid	A/P3	on request
Hydrochloric acid, see hydrogen chloride				gas/liquid	E	on request
Hydrogen bromide	10035-10-6	2	6,7	gas/liquid	E	on request
Hydrogen chloride	7647-01-0	2	3	gas	E	on request
Hydrogen cyanide	74-90-8	1,9	2,1	liquid	B	on request

Hazardous substances:

Substance name	CAS no.	Limit value ml/m ³	Limit value mg/m ³	State	Filter type	uvex Face masks
Hydrogen fluoride, hydrofluoric acid	7664-39-3	1	0,83	gas/liquid	E, B	on request
Hydrogen peroxide	7722-84-1	0,5	0,71	liquid	NO, B	on request
Hydrogen sulphide	7783-06-4	5	7,1	gas	B	on request
Insecticides				solid/liquid	AP2/3	on request
Iodine	7553-56-2			solid	BP2	on request
Iron dust			1,25	solid	P2	all P2 mask
Iron oxide			1,25	solid	P2	all P2 maskss
Isoamyl alcohol	123-51-3	20	73	liquid	A	on request
Isocyanate, see diisocyanate					B (A) P3	on request
Isophorone	78-59-1	2	11	liquid	A (P2)	on request
Isopropanol	67-63-0	200	500	liquid	A	on request
Lead and compounds	7439-92-1			solid	P3	all P3 masks
Lead chromate	7758-97-6			solid	P3	all P3 masks
Lead smoke				solid	P3	all P3 masks
Low boilers gr. 1/2					AX	
Magnesium oxide	1309-48-4		3	solid	P1	all P1 masks
Magnesium smoke					P2	all P2 masks
Maleic anhydride	108-31-6	0,1	0,41	solid	AP2	on request
Manganese and compounds			0,5	solid	P2	all P2 masks
Marble				solid	P1	all P1 masks
Mercaptan					B	on request
Mercury	7439-97-6		0,02	liquid	Hg	
Methane				gas	UU	
Methanol	67-56-1	200	270	liquid	AX	
3-Methoxybutyl acetate	4435-53-4			liquid	A	on request
Methoxyethanol Me-Glycol	109-84-4	1	3,2	liquid	A	on request
1-Methoxy-2-propanyl acetate	108-65-6	50	270	liquid	A	on request
Methyl acrylate	96-33-3	5	18	liquid	A	on request
Methyl ethyl ketone (MEK), see butanone	78-93-3	200	600	liquid	A	on request
Methyl isobutyl ketone (MIBK)	108-10-1	20	83	liquid	A	on request
Methylamine	74-89-5	10	13	gas	K	on request
Methylated spirit				liquid	A	on request
Methylcyclohexanol	25639-42-3	6	28	liquid	A	on request
Minium (lead oxide)				solid/liquid	P2	all P2 masks
Molybdenum and compounds				solid	P2	all P2 masks
Multi-drug resistant tuberculosis (TB)				solid/liquid	P3	all P3 masks
Nanoparticles				solid	P3	all P3 masks
Naphthalene	91-20-3	0,1	0,5	solid (gas)	AP3	on request
Nickel			0,5	solid	P2	all P2 masks

Hazardous substances:

Substance name	CAS no.	Limit value ml/m ³	Limit value mg/m ³	State	Filter type	uvex Face masks
Nitric acid	7697-37-2	1	2,6	liquid	B, NO	on request
Nitro compounds (organic)				liquid	A	on request
Nitro thinner				liquid	A	on request
Nitrogen oxide (see nitrous gases)				gas	NO	
N-Nitrosamine			0,01	solid (gas)	(A) P3	on request
Octane		500	2400	liquid	A	on request
Organic smoke				liquid	A	on request
Oxalic acid	144-62-7		1	solid	P2	all P2 masks
Ozone	10028-15-6			gas	NO (A;B)	on request
Paint splashes					AP2	on request
Parathion (E605)	56-38-2		0,1	liquid	(A) P2/3	on request
Perchloroethylene, see tetrachloroethylene						on request
Peracetic acid	79-21-0			liquid	E, B (P3)	
Pet hair				solid	P1	all P1 masks
Petrol				liquid	A	on request
Petroleum				liquid	A	on request
Petroleum distillate				liquid	A	on request
Petroleum naphtha				liquid	A	on request
Phenol	108-95-2	2	8	solid (gas)	A (P2)	on request
Phenylhydrazine	100-63-0			solid/liquid	AP3	on request
Phosgene	75-44-5	0,1	0,41	gas	B	on request
Phosgene, carbonyl dichloride	75-44-5	0,1	0,41	gas	B	
Phosphorated hydrogen, (phosphine)	7803-51-2	0,1	0,14	gas	B	
Phosphorus pentoxide	1314-56-3		2	solid	P2	all P2 masks
Phosphorus trichloride	7719-12-2	0,5	2,8	liquid	B, E (P2)	on request
Pollen				solid	P2	all P3 masks
Polychlorinated biphenyl				liquid	AP3	on request
Polyvinyl chloride (PVC)	9002-86-2		1,25	solid	P2	all P2 masks
Potassium hydroxide, caustic potash				solid/liquid	P2	all P2 masks
2-Propanol (Isopropanol)	67-63-0	200	500	liquid	A	
Propionic acid	201-176-3	10	31	liquid	A (ABE)	on request
Prussic acid, see hydrogen cyanide					B	on request
Pyridine	110-86-1			liquid	A	on request
Quartz				solid	P3	all P3 masks
Risk group 3				solid	P3	all P3 masks
Rust				solid	P1	all P1 masks
Silica gas			0,3	solid	P2	all P2 masks
Silicic acid			4	solid	P2	all P2 masks
Silicon carbide	409-21-2			solid	P2	all P2 masks

Hazardous substances:

Substance name	CAS no.	Limit value ml/m ³	Limit value mg/m ³	State	Filter type	uvex Face masks
Silver compounds			0,01	solid	P3	all P3 masks
Smoke				solid/gas	P2/(BP3)	on request
Sodium azide	247-852-1		0,2	solid	P2	all P2 masks
Sodium hydroxide, caustic soda	1310-73-2			solid/liquid	P2	all P2 masks
Sodium hypochlorite				solid (gas)	P (B)	on request
Solvent mixture					A	on request
Soot				solid	P2	all P2 masks
Stainless steel, smoke, fine dust				solid	P3	all P3 masks
Stibine	7803-52-3			gas	B	
Stone dust (containing quartz)				solid	P2	all P2 masks
Styrene	100-42-5	20	86	liquid	A	on request
Sulphur dioxide	7446-09-5	1	2,5	gas	E	on request
Sulphuric acid	7664-93-9		0,1	liquid	P	
Talc				solid	P2	all P2 masks
Tellurium and compounds				solid	P3	all P3 masks
1,1,2,2-Tetrachloro-1,2-difluoroethane (R 112)	76-12-0	200	1700	liquid	A	on request
1,1,2,2-Tetrachloroethane	79-34-5	1	7	liquid	A	on request
Tetrachloroethylene	127-18-4	20	138	liquid	A	on request
Tetrachloromethane	56-23-5	0,5	3,2	liquid	A	on request
Tetrahydrofuran (THF)	109-99-9	50	150	liquid	A	on request
Thiram	137-26-8		1	solid	P2	all P2 masks
Tin compounds, org.					AP3	on request
Tin, tin compounds, inorg.				solid (liquid)	P2 (B)	on request
Titanium dioxide			1,25	solid	P1	all P1 masks
Tobacco dust				solid	P2	all P2 masks
Tobacco smoke				solid (gas)	P3 (ABE)	on request
o-Toluidine	95-53-4		0,5	liquid	A	on request
Toluene	108-88-3	50	190	liquid	A	on request
1,1,1-Trichloroethane	71-55-6	200	1100	liquid	A	on request
1,1,2-Trichloroethane	79-00-5	10	55	liquid	A	on request
Trichloroethylene (Tri)	79-01-6			liquid	A	on request
Trichloromethane, see chloroform		0,5	2,5	liquid	AX	
Triethylamine	121-44-8	1	4,2	liquid	A (K)	
Trimethylbenzenes (all isomers)		20	100	liquid	A	on request
Tri-n-butyltin compounds (TBTO)		0,0018	0,009	liquid	(A) P3	on request
Turpentine	8006-64-2			liquid	A	on request
Uranium compounds				solid	P3	all P3 masks
Vanadium pentoxide	1314-62-1			solid	P3	all P3 masks
Vinyl acetate	108-05-4	5	18	liquid	A	on request



Hazardous substances:

Substance name	CAS no.	Limit value ml/m ³	Limit value mg/m ³	State	Filter type	uvex Face masks
Vinyl chloride	75-01-4	2	5	gas	AX	
Virus risk group 2					P2	all P2 masks
Virus risk group 3					P3	all P3 masks
Welding fumes			1,25	solid	P3	all P3 masks
Wood dust				solid	P2	all P2 masks
Xylene (all isomers)	1330-20-7	100	440	liquid	A	on request
2,4-Xylidine	95-68-1	5	25	liquid	A	on request
Zinc oxide smoke	1314-13-2		0,1	solid	P2	all P2 masks

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