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**Chapter A II C**  
**1 January 2006**

**Technical regulation on**  
**occupational health in ships**

## C H A P T E R   I I

### Chemical occupational health effects

**Part C                      Carcinogenic substances and materials,**  
**including asbestos and mutagens**

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## C H A P T E R I I

### Chemical occupational health effects

#### **Part C Carcinogenic substances and materials, including asbestos and mutagens**

##### **Regulation 1 Application**

- 1 The provisions of this part shall apply to work with, including the use, handling and marking of:
  - .1 carcinogenic substances and materials listed in annex 1, including asbestos,
  - .2 materials with a content expressed in percentages as that given in annex 1 or greater,
  - .3 working processes releasing such a substance given in annex 1 in connection with each individual substance, and
  - .4 the mutagens listed in annex 1.
- 2 With the exception of the provisions of regulation 2, this technical regulation shall also apply to the substances and materials listed in annex 1 when carried as cargo.
- 3 This technical regulation contains provisions drawn up on the basis of Council Directive 2004/37/EC of 29 April 2004 on the protection of workers from the risks related to exposure to carcinogens or mutagens at work (Sixth individual Directive within the meaning of Article 16(1) of Council Directive 89/391/EEC) (codified version), Official Journal 2004, L 158, p. 50.

Council Directive 83/477/EEC of 19 September 1983 on the protection of workers from the risks related to exposure to asbestos at work, Official Journal 1983, L 263, p. 25, as amended by as amended by Council Directive 91/382/EC of 25 June 1991 and amended by Directive 2003/18/EC of the European Parliament and of the Council of 27 March 2003, Official Journal 2003, L 97, p 48.

Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC), Official Journal 1998, L 131, p. 11.

Council Directive 83/478/EEC of 19 September 1983 amending for the fifth time (asbestos) Directive 76/769/EEC on the approximation of the laws, regulations and administrative provisions of the Member States relating to restrictions on the marketing and use of certain dangerous substances and preparations. Council Directive 85/610/EEC of 20 December 1985 amending for the seventh time Directive 76/769/EEC, Commission Directive 91/659/EEC of 3 December 1991 adapting to technical progress Annex I to Council Directive 76/769/EEC and Commission Directive 99/77/EC of 26 July 1999 adapting to technical progress for the sixth time Annex 1 to Council Directive 76/769/EEC on the approximation of the laws, regulations and administrative provisions of the Member States relating to restrictions on the marketing and use of certain dangerous substances and preparations (asbestos) Official Gazette 1999. L. 207, p 18.

**Regulation 2 General application provisions**

- 1 This part contains supplementary provisions to chapter I, part A on the performance of work and part A of this chapter on substances and materials.
- 2 Substances and materials covered by this part shall be considered hazardous or otherwise impairing to health and safety. Hence, the provisions on substances and materials used on board ships, cf. part A of this chapter, shall apply in their entirety. In addition, the special requirements that are a consequence of the legislation on safety at sea as such shall apply, such as those on epoxy resins and isocyanates, etc. in the provisions of chapter II, part B on work with code-numbered products on board ships.
- 3 A substance or material may not be used if it is possible to substitute it by a non-hazardous or less hazardous substance or material, cf. the provisions on substitution in chapter II, part A, regulations 7, subparagraph 1 and subparagraphs 3-9.
- 4 Workplace instructions for substances and materials that are drawn up for the employees in accordance with the provisions of part A, regulations 3 and 10 of this chapter shall, in addition to the information mentioned here, shall contain information that work with the substance or material may involve a cancer risk. The workplace instructions for materials shall also provide information about the substances' names. The names applied for the substances and materials in annex 1 shall be used.
- 5 The workplace instructions in accordance with subparagraph 4 shall provide information about any measures in connection with the use of personal protective equipment under regulation 3, subparagraphs 10 and 12.
- 6 Waste that contains harmful substances or mutagens shall be collected, stored and disposed of in suitable, closed containers or, where this is not practicable, in another satisfactory way. Containers shall be marked as indicated in annex 3.

**Regulation 3 General provisions on the use and carriage of cargo**

- 1 This part contains supplementary regulations to chapter I, part A on the performance of work on board ships.

- 2 When using carcinogenic substances or mutagens, working processes, working methods and tools shall be used that exclude or limit the generation of vapours and dust, the creation of smoke and aerosols, etc. as well as sprays and splashes from the substances and materials as much as reasonable considering technical developments.
- 3 Where there is a risk of being exposed to carcinogenic substances or mutagens from the cargo, working methods shall be used that exclude or limit such exposure. This shall apply in the case of working processes such as loading, unloading, tank cleaning, ullage and temperature measurements, sampling, connection and disconnection of hoses and other work on deck. The exposure may cover the generation of vapours and dust, the creation of smoke and aerosols, etc. as well as sprays and splashes from the substances and materials. The working methods shall be chosen in consideration of technical developments.
- 4 Air containing carcinogenic substances or mutagens may not be recirculated.
- 5 If air containing carcinogenic substances or mutagens is extracted locally, the extracted air shall always be led to the open air.
- 6 Ventilation systems installed to protect the employees and technical installations used when working with carcinogenic substances or mutagens shall be provided with suitably working means of surveillance that detect abnormal conditions of operation and accidents and sound an alarm.
- 7 In connection with means of surveillance, written instructions shall have been drawn up indicating what measures to follow in case of abnormal conditions of operation and accidents on board.
- 8 The employees shall be informed of abnormal conditions of operation and of any accident that may involve a risk of being exposed to effects from carcinogenic substances or mutagens or from working processes where such products can be generated.
- 9 For as long as the increased risk is present, persons may be employed within the area in question only to the extent necessary to re-establish normal conditions. To prevent the increased risk of being exposed to the effects of carcinogenic substances or mutagens, suitable breaks shall be imposed, the work shall be distributed between the employees, and the work shall be limited to what is strictly necessary. The persons engaged in work within the area in question shall be effectively protected against effects.

- 10 If it is not possible to carry out the work in another way that is fully reasonable from a health and safety perspective, suitable personal protective equipment shall be used when working with carcinogenic substances or mutagens.
- 11 The personal protective equipment:
  - .1 may not be carried during lunch breaks,
  - .2 shall be stored separate from other clothes,
  - .3 shall be stored and disposed of in closed packaging marked as stipulated in annex 3 when it is to be destroyed or cleaned, and
  - .4 shall be cleaned separately using equipment suitable for the purpose.
- 12 In addition, the provisions of chapter VII on the use of personal protective equipment on board ships shall apply to the use of the personal protective equipment in connection with the work in question.
- 13 In areas with a risk of being exposed to carcinogenic substances or mutagens, it shall be prohibited to smoke, eat or drink, and it shall not be permitted to store tobacco, food and beverages.

**Regulation 4 Assessment of the conditions of health and safety**

- 1 If hazardous substances and materials are found in the workplace, the following assessment elements shall also be included in the risk assessment in accordance with the provisions of part A, regulation 5, subparagraphs 1-6 of this chapter:
  - .1 the hazardous properties of the substances and materials,
  - .2 the level of exposure, its type and duration,
  - .3 the conditions of the work with hazardous substances and materials,
  - .4 the effect of the preventive measures that have been taken or are to be taken,
  - .5 where possible, the conclusions to be drawn from the occupational medical examinations,
  - .6 limit values laid down by the Danish Working Environment Authority, and
  - .7 information about health and safety given by the supplier or the shipowner/master of the ship.
- 2 The shipowner or, on his behalf, the master of the ship shall procure further information from the supplier or other available sources that is necessary for the risk assessment.
- 3 The assessment shall also contain an inventory of the hazardous substances and materials that are used at the workplace with reference to the relevant workplace instructions.
- 4 Repair and maintenance work and the like on board ships that may be foreseen to give rise to considerable effects from hazardous substances and materials or that may impair health and safety for other reasons, though technical precautions have been taken, shall be included in the assessment.

- 5 If the work involves a risk of being exposed to effects from several hazardous substances or materials, the total risk of the various substances and materials shall be assessed.
- 6 The assessment shall be updated when important changes are made to working conditions, but at least every three years.
- 7 When using the substances and materials mentioned in subparagraph 1, the work shall be planned and arranged in consideration of this assessment, and it shall be ensured that such special precautions as stipulated in regulation 6, subparagraph 1 and subparagraphs 5-19 are taken if necessary.
- 8 If carcinogenic substances or mutagens are carried as cargo, the work shall be planned and arranged in consideration of this assessment.

**Regulation 5 Special provisions on use and carriage as cargo**

- 1 The provisions of regulations 6 and 7 shall only apply to the extent implied from annex 1 in connection with each substance, material or working process or from an assessment under regulation 4.
- 2 When the substances and materials mentioned in annex 1 are being carried as cargo, the special provisions of regulation 4, regulation 6, subparagraphs 2-6, subparagraphs 13-19, subparagraph 21, as well as regulation 7, subparagraphs 2-4 shall apply. If the carriage is in the form of packaged, hazardous goods, regulation 6 shall not apply.

**Regulation 6 Special measures**

- 1 To the extent implied by the assessment mentioned in regulation 4, work with the substances and materials concerned shall be carried out in closed systems, if technically possible.
- 2 To the extent implied from annex 1 and from the provision in regulation 5, subparagraph 2, working processes involving carcinogenic substances or mutagens may be carried out only in closed systems or in another way that prevents the release of substances and materials so that any effect from them may be precluded.
- 3 If it is not technically possible to comply with subparagraph 2, the carcinogenic substances or mutagens shall be eliminated by other technical measures so that the risk of exposure is limited as much as possible.
- 4 If it is not technically possible to eliminate the risk of exposure, suitable personal protective equipment shall be used.
- 5 To the extent that it follows from the assessment mentioned in regulation 4, workplaces where work is being carried out with carcinogenic substances or mutagens shall be delimited and marked with warning and safety signs, including no smoking signs.
- 6 Such measures shall always be taken to the extent implied from annex 1 as well as from the provision in regulation 5, subparagraph 2.

- 7 To the extent implied from the assessment mentioned in regulation 4, work with carcinogenic substances or mutagens may be carried out only at workplaces that have been effectively segregated from other workplaces, and access to these areas may only be for employees whose work necessitates such access.
- 8 Such measures shall always be taken to the extent implied from annex 1.
- 9 To the extent implied from the assessment mentioned in regulation 4 that there is a risk of being soiled when using and carrying the products as cargo, the bathing and changing facilities under the provisions of Notice B from the Danish Maritime Authority, chapter II-3, shall include two separate changing rooms, one for ordinary clothing and one for work clothes.
- 10 The changing room for work clothes shall be arranged and equipped so that it is possible to pack the work clothes in closed packaging in a sound and secure way before they are removed for laundry. If disposable clothes or equipment are used, closed, suitable waste containers shall be available for this purpose.
- 11 The changing room for work clothes may not be used by others than those who are exposed to the contamination in question.
- 12 The bathing and changing facilities shall always be arranged to the extent stipulated in annex 1.
- 13 To the extent implied from the assessment mentioned in regulation 4, the employer shall ensure that measuring programmes are including in the check of the working environment (health and safety) under chapter I, part A on the performance of work.
- 14 The measuring programmes shall be recognised and shall always form part of the check to the extent stipulated in annex 1 and in the provision in regulation 5, subparagraph 2.
- 15 The shipowners\* shall keep an updated list of the employees who, under regulation 4 and the provision in regulation 5, subparagraph 2, are deemed to could have been or to have been exposed to a risk when working with carcinogenic substances or mutagens, indicating the effect to which they have or might have been exposed.
- 16 The employees shall have access to the information given in the list in connection with themselves. The employees and their representatives shall have access to the collective and anonymous information in the list.
- 17 The information on each individual employee shall be kept for 40 years after the end of the risk. If the shipping company ceases to exist, the list shall be submitted to the Danish Maritime Authority.
- 18 The shipowner shall ensure that the employees, who under regulation 4 are deemed to could have been at risk of being exposed to carcinogenic substances or mutagens, have access to occupational medical examinations before their employment and subsequently no less than once very three years. The examination shall be carried out in accordance with the provisions of chapter IX in part A on occupational medical examinations.
- 19 To the extent stipulated in annex 1 and the provision in regulation 5, subparagraph 2, the employees shall have access to occupational medical examinations.

- 20 To the extent stipulated in annex 1, carcinogenic substances or mutagens shall be marked in accordance with the provisions of annex 3 before being used on board the ship.
- 21 When carcinogenic substances and materials or mutagens are being carried as cargo, work with these products may be carried out only by persons who have completed special training approved by the Danish Maritime Authority.

**Regulation 7 Limitations of use and reporting**

- 1 To the extent stipulated in annex 1, the use of carcinogenic substances or mutagens shall not be permitted.
- 2 To the extent stipulated in annex 1 and in the provision in regulation 5, subparagraph 2, any accident that may involve a risk of persons being exposed to a danger to their health as a consequence of effects from carcinogenic substances or mutagens shall be reported to the Danish Maritime Authority.
- 3 The report shall include a description of the accident, including the names of the carcinogenic substances or mutagens in question, as well as information about the estimated quantity of the leak.
- 4 The report shall include an indication of the possible reason for the accident as well as an account of how to prevent similar accidents in the future.

**Regulation 8 Asbestos**

The detailed provisions of annex 2 shall apply to the use of asbestos in addition to the provisions above.

## A N N E X 1

### Carcinogenic substances and materials as well as mutagens

Annex 1 consists of two parts: part A and part B.

Part A contains a specific enumeration of substances and materials.

Part B contains a reference to the list of harmful substances made by the Danish Ministry of the Environment.

A substance could be covered by regulations 1-8 through both part A and part B. If this is the case, the special requirements under part A shall apply. If the substance is already included in part A with special provisions or with another percentage, these shall be observed.

#### **Part A**

The column "UN no." indicates the UN no. of the substance or material, which is used in connection with transport. Substances with an \* are found in "Mehrblätter Gefährliche Arbeitsstoffe" (1998), the others are found in "Hommel Handbuch der gefährlichen Güten" (2005).

It shall be stressed that it is not possible to look in the above "the other way round"; this means that, for example, UN 2810 is not only "1-Vinyl-2-pyrrolidon" and hence carcinogenic. Several of the above UN numbers also cover many substances that are not carcinogenic.

The column "CAS no." indicates the identification number of a substance in the "Chemical Abstract Service".

The column "substance" indicates the substances on the list below. The column "substance" also contains materials and substances that escape during a working process.

The column "content in the material (%)" stipulates the percentage of the substance a material shall contain to be covered by this technical regulation.

The column "special provisions" refers to regulations 5-8 in the provisions, which, in addition to regulations 2-4, shall apply to work with the substance or material in question.

The column "supp. remarks and limitations" indicates more precisely to what extent the special provisions mentioned shall apply to the substance/material. Furthermore, any limitations in the application of the technical regulation on the substance/material are stipulated.

| in front of a substance means that amendments have been made compared with the previous annex 1.

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	53-96-3	2-AAF	0.1		
	97-56-3	AAT, see Azocolorants (Solvent Yellow 3)			
	26148-68-5	A- $\alpha$ -C	0.1		
1089	75-07-0	Acetaldehyde	0.1	Reg 7(1)	Application in cleaning agents
			$\leq 1$	Reg 7(1)	Other application
	16568-02-8	Acetaldehyde – <i>N</i> -formyl- <i>N</i> -methylhydrazon, see Gyromitrin			
	60-35-5	Acetamide	0.1		
	2832-40-8	Acetamide, <i>N</i> -(4-((2-hydroxy-5-methylphenyl)azo)phenyl)-, see CI Disperse Yellow 3			
		Acetic acid, reaction product with acetophenone, cyclohexylamine, formaldehyde and methanol, see Acetophenone, reaction product with formaldehyde, cyclohexylamine, methanol and acetic acid			
2810		Acetophenone, reaction product with formaldehyde, cyclohexylamine, methanol and acetic acid	0.1		
	53-96-3	2-Acetylamino-fluorene, see 2-AAF			
	3761-53-3	Acid Red 26, see Azocolorants			
	6459-94-5	Acid Red 114, see Azocolorants			
	1694-09-3	Acid Violet 49, see Bencylviolet 4B			
2074	79-06-1	Acrylamide	0.1	Reg. 7(1)	Application
1093	107-13-1	Acrylonitrile	0.1		
	23214-92-8	Adriamycine	0.1		
	3688-53-7	AF-2	0.1	Reg. 7(1)	Application
	1162-65-8 1165-39-5 1402-68-2 7220-81-7 7241-98-7 6795-23-9	Aflatoxines	0.1		
	15972-60-8	Alachlor	0.1	Reg. 7(1)	Application
2761 n.o.s.	309-00-2	Aldrin	0.1	Reg. 7(1)	Application

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	85535-84-8	Alkanes, C10-13-, chloro, see Chloroalkanes, C10-13			
	94-59-7	5-Allyl-1,3-benzodioxol, see Safrol			
2219	106-92-3	Allylglycidylether	0.1		
3143*	60-09-3	<i>p</i> -Aminoazobenzene, see Azocolorants (Solvent Yellow 1)			
3143	97-56-3	<i>o</i> -Aminoazotoluene, see Azocolorants (Solvent Yellow 3)			
	92-67-1	4-Aminobiphenyl	0	Reg. 7(1)	Application. The prohibition does not apply if the substance occurs in a substance or material in the form of impurities, by-products or as a constituent of waste products and the concentration of the substance is below 0.1 per cent by weight. A risk assessment is relevant only when application is permitted.
		4-Aminobiphenyl. salts hereof	0	Reg. 7(1)	
	77094-11-2	2-Amino-3,4-dimethylimidazo-(4,5- <i>f</i> )quinolin, see MelQ			
	77500-04-0	2-Amino-3,8-dimethylimidazo-(4,5- <i>f</i> )quinoline, see MelQx			
	62450-06-0	3-Amino-1,4-dimethyl-5- <i>H</i> -pyrido(4,3- <i>b</i> )indol, see Trp-P-1			
	67730-10-3	2-Aminodipyrido (1,2- <i>a</i> :3',2'- <i>d</i> )imidazol, see Glu-P-2			
2811* n.o.s.	399-95-1	4-Amino-3-flourphenol	0.1		

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	67730-11-4	2-Amino-6-methyl-dipyrido(1,2- <i>a</i> :3',2'- <i>d</i> )imidazol, see Glu-P-1			
	76180-96-6	2-Amino-3-methyl-imidazo(4,5- <i>f</i> )quinoline, see IQ			
	105650-23-5	2-Amino-1-methyl-6-phenylimidazo-(4,5- <i>b</i> )pyridine, see PhIP			
	68006-83-7	2-Amino-3-methyl-9 <i>H</i> -pyrido(2,3- <i>b</i> )indol, see MeA- $\alpha$ -C			
	62450-07-1	3-Amino-1-methyl-5 <i>H</i> -pyrido(4,3- <i>b</i> )indol, see Trp-P-2			
	712-68-5	2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazol	0.1	Reg. 7(1)	Application
	26148-68-5	2-Amino-9 <i>H</i> -pyrido(2,3- <i>b</i> )indol, see A- $\alpha$ -C			
2763*	61-82-5	Amitrole	0.1	Reg. 7(1)	Application
	7789-09-5	Ammonium chromate, see Chromium compounds, hexavalent			
1547	62-53-3	Aniline	0.1	Reg. 7(1)	Application
		Aniline, salts hereof	0.1		
2431	90-04-0	<i>o</i> -Anisidine	0.1		
		<i>o</i> -Anisidine, salts hereof	0.1		
1549* n.o.s.	1309-64-4 1317-98-2 12412-52-1	Antimontrioxide	0.1	Reg. 7(1)	Application as fire-retardant paint, glue, filler, etc. Other application
	90640-80-5 90640-81-6 90640-82-7 91995-14-1 91995-15-2 91995-16-3 91995-17-4	Anthracene oil with content $\geq$ 0.1% benzene or $\geq$ 0.005% benzo(a)pyrene	0.1	Reg. 7(1)	Application
	90640-80-5 90640-81-6 90640-82-7 91995-14-1 91995-15-2 91995-16-3 91995-17-4	Anthracene oil with content < 0.1% benzene or <0.005% benzo(a)pyrene	0.1	Reg. 7(1)	Application
1651*	86-88-4	ANTU	0.1	Reg. 7(1)	Application
	140-57-8	Aramit <sup>R</sup>	0.1	Reg. 7(1)	Application
	313-67-7 475-80-9	Aristolochic acid	0.1		

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	64742-03-6 64742-04-7 64742-05-8 64742-11-6 91995-78-7	Aromatic extracts of crude oil distillates defined by EINECS-numbers 265-102-1, 295-341-7, 265-111-0, 265-103-7 and 265-104-2	0.1		
1558	7440-38-2	Arsenic	0.1	Reg. 7(1)	Application
1559*	1303-28-2	Arsenic pentoxide	0.1	Reg. 7(1)	Application
1553	7778-39-4	Arsenic acid	0.1	Reg. 7(1)	Application
		Arsenic acid, salts hereof	0.1	Reg. 7(1)	Application
1561	1327-53-3	Arsenic trioxide	0.1	Reg. 7(1)	Application
		Arsenic, other inorganic compounds	0.1	Reg. 7(1)	Application
2590*	12001-28-4 12001-29-5 12172-73-5 77536-66-4 77536-67-5 77536-68-6	Asbestos	0		Refer to annex 2 for application
	1912-24-9	Atrazine	0.1	Reg. 7(1)	Application
	492-80-8	Auramine	0.1		
		Auramine, salts hereof	0.1		
	320-67-2	Azacididine	0.1		
	115-02-06	Azaserine	0.1		
	446-86-6	Azathioprine	0.1		
1185	151-56-4	Aziridine, see Ethylenimine			
	103-33-3	Azobenzene	0.1		
		Azocolorants, see also benzidine-based azocolorants, 4,4'-Bi- <i>o</i> -toluidine-based azocolor and <i>o</i> -dianisidine-based azocolorants:	0.1	Reg. 7(1)	Application
	3761-53-3	Acid Red 26	0.1	Reg. 7(1)	Application
	6459-94-5	Acid Red 114	0.1	Reg. 7(1)	Application
	85136-74-9	Disperse Orange 149	0.1	Reg. 7(1)	Application
	2832-40-8	Disperse Yellow 3	0.1	Reg. 7(1)	Application
	3564-09-8	Ponceau 3 R	0.1	Reg. 7(1)	Application
	2646-17-5	Solvent Orange 2	0.1	Reg. 7(1)	Application
	6358-53-8	Solvent Red 80	0.1	Reg. 7(1)	Application
	60-09-3	Solvent Yellow 1	0.1	Reg. 7(1)	Application
	60-11-7	Solvent Yellow 2	0.1	Reg. 7(1)	Application
	97-56-3	Solvent Yellow 3	0.1	Reg. 7(1)	Application
	842-07-9	Solvent yellow 14	0.1	Reg. 7(1)	Application
		Barium chromate, see Chromium compounds, hexavalent			
	154-93-8	BCNU	0.1		
3077 n.o.s.	17804-35-2	Benomyl	0.1		
1886	98-87-3	Benzal chloride, see $\alpha$ -chlorinated toluenes			
	56-55-3	Benz( <i>a</i> )anthracene	0.1	Reg. 7(1)	Application
1114	71-43-2	Benzene	0.1	Reg. 7(1)	Application

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations	
	51085-52-0	Benzenamine, 2-methyl-5-nitro-, monohydrochloride	0.1			
	615-28-1	1,2-Benzenediamine, dihydrochloride, see <i>o</i> -phenyldiamine dihydrochloride				
1885	92-87-5	Benzidine	0	Reg. 7(1)	Application The prohibition applies only if the substance occurs in a substance or material in the form of impurities, by-products or as a constituent of waste products and the concentration of the substance is below 0.1 weight percentage. A risk assessment is relevant only when application is permitted.	
		Benzidine, salts hereof	0	Reg. 7(1)		
		Benzidine-based azocolorants:				
	1937-37-7	Direct Black (technical goods)	38	0.1	Reg. 7(1)	Application
	2602-46-2	Direct Blue (technical goods)	6	0.1	Reg. 7(1)	Application
	72-57-1	Direct Blue (technical goods)	14	0.1	Reg. 7(1)	Application
	2429-74-5	Direct Blue (technical quality)	15	0.1	Reg. 7(1)	Application
	16071-86-6	Direct Brown (technical goods)	95	0.1	Reg. 7(1)	Application
	573-58-0	Direct Red 28		0.1	Reg. 7(1)	Application

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
		Other benzidine-based azocolorants with the exception of those mentioned in the list of dangerous substances issued by the Danish Environmental Protection Agency and not classified as carcinogens.	0.1	Reg. 7(1)	Application
	205-99-2	Benzo( <i>b</i> )fluoranthene	0.1	Reg. 7(1)	Application
	205-82-3	Benzo( <i>j</i> )fluoranthene	0.1	Reg. 7(1)	Application
	207-08-9	Benzo( <i>k</i> )fluoranthene	0.1	Reg. 7(1)	Application
	271-89-6	Benzofurane	0.1	Reg. 7(1)	Application
	50-32-8	Benzo( <i>a</i> )pyrene	0.1	Reg. 7(1)	Application
1738	100-44-7	Benzylchloride, see $\alpha$ -chlorinated toluenes			
1886	98-87-3	Benzylidendichloride, see $\alpha,\alpha$ -dichlorotoluene			
	1694-09-3	Benzylviolet 4B	0.1		
1567	7440-41-7	Beryllium	0.1		
		Beryllium compounds, except for aluminium beryllium silicates	0.1		
		Beryllium compounds, aluminium beryllium silicates	0.1		
	88-32-4 121-00-6 25013-16-5	BHA	0.1		
	90-41-5	(1,1'-Biphenyl)-2-amine	0.1		
	101-77-9	Bis(4-aminophenyl)methane, see 4,4'-Methyldianiline			
	108225-03-2	7-[[4,6-Bis[(2-amino-propyl)amino]-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-(2-methoxyphenylazo)naphthalensulfonic acid, monoformiate	0.1		
	3296-90-0	2,2-Bis(bromomethyl)propan-1,3-diol	0.1		
1916	111-44-4	Bis(2-chloroethyl) ether, see 2,2'-Dichlorodiethylether			
	494-03-1	<i>N,N</i> -Bis(2-chloroethyl)-2-naphthylamine, see Chloronaphazine			
	154-93-8	1,3-Bis(2-chloroethyl) nitrosourine substance, see BCNU			
	505-60-2	Bis(2-chloroethyl)sulphide	0.1	Reg. 7(1)	Application
2249	542-88-1	Bis(chloromethyl)ether	0.1		
	90-94-8	4,4'-Bis(dimethylamino)-benzophenone			

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	101-90-6	1,3-Bis(2,3-epoxypropoxy) benzene, see Diglycidylresorcinol ether			
		4-[[Bis-(4-fluorophenyl)methylsilyl]methyl]-4 <i>H</i> -1,2,4-triazol, mixture with 1-[[bis-(4-fluorophenyl)methylsilyl]methyl]-1 <i>H</i> -1,2,4-triazol, see Mixture of 4-[[bis-(4-fluorophenyl)methylsilyl]methyl]-4 <i>H</i> -1,2,4-triazol; 1-[[bis-(4-fluorophenyl)methylsilyl]methyl]-1 <i>H</i> -1,2,4-triazol			
	85509-19-9	Bis(4-fluorophenyl)(methyl)(1 <i>H</i> -1,2,4-triazol-1-ylmethyl)silane, see Flusilazol			
	2784-94-3	<i>N,N'</i> -Bis(2-hydroxyethyl)- <i>N</i> -nitro- <i>p</i> -phenyldiamine, see HC Blue No. 1			
		4,4'-Bi- <i>o</i> -toluidine-based azo-colorants except for such mentioned on the list of dangerous substances issued by the Danish Environmental Protection Agency not classified as carcinogens.	0.1	Reg. 7(1)	Application
		Bitumen extracts, steam and air refined	0.1		
		Mixture of: 4-[[bis-(4-fluorophenyl)methylsilyl]methyl]-4 <i>H</i> -1,2,4-triazol; 1-[[bis-(4-fluorophenyl)methylsilyl]methyl]-1 <i>H</i> -1,2,4-triazol	0.1		
		Blendur 1 VP KU 3-4519 with ELINCS no. 421-550-1	0.1		
	9041-93-4 11056-06-7 67763-87-5	Bleomycines	0.1		
	75-27-4	Bromodichloromethane	0.1		
1891	74-96-4	Bromoethane	0.1		

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	593-60-2	Bromoethene, see Vinylbromide			
	138526-69-9	1-Bromo-3,4,5-trifluorobenzene	0.1		
1010	106-99-0	1,3-Butadiene	0.1		
		Butane containing 0.1% 1,3-butadiene	0.1		
	55-98-1	1,4-Butandioldimethansulfonate, see Myleran			
1993	96-29-7	2-Butanonoxime	≥0.1	Reg. 7(1)	Application
1993	2426-08-6	<i>n</i> -Butylglycidylether, see 1-Butyl(2,3-epoxy-1-propyl)ether	0.1		
	88-32-4 121-00-6 25013-16-5	<i>tert</i> -Butyl-4-methoxyphenol, see BHA			
3082 n.o.s.	2312-35-8	2-(4- <i>tert</i> -Butylphenoxy)cyclohexyl-2-propynylsulfite			
	3068-88-0	β-Butyrolactone	0.1		
	7440-43-9	Cadmium	0.1	Reg. 7(1)	Application
2570 n.o.s.	10108-64-2	Cadmium chloride	0.1	Reg. 7(1)	Application
2570 n.o.s.	542-83-6	Cadmium cyanide	0.1	Reg. 7(1)	Application
2570 n.o.s.	7790-79-6	Cadmium fluoride	0.1	Reg. 7(1)	Application
2570 n.o.s.	17010-21-8	Cadmium fluorosilicate	0.1	Reg. 7(1)	Application
	4464-23-7	Cadmium formiate	0.1	Reg. 7(1)	Application
2570 n.o.s.	7790-80-9	Cadmium iodide	0.1	Reg. 7(1)	Application
2570 n.o.s.	1306-19-0	Cadmium oxide	0.1	Reg. 7(1)	Application
2570 n.o.s.	10124-36-4	Cadmium sulfate	0.1	Reg. 7(1)	Application
2570* n.o.s. 3077	1306-23-6 12656-57-4 58339-34-7	Cadmium sulfide	0.1	Reg. 7(1)	Application
	12656-57-4 58339-34-7	Cadmium sulfoselenide	0.1	Reg. 7(1)	Application
		Cadmium, other inorganic compounds	0.1	Reg. 7(1)	Application
	331-39-5	Caffeic acid	0.1		
	13765-19-0	Calcium chromate, see Chromium compounds, hexavalent			
2761*	8001-35-2	Camphechlor, see Polychlorinated camphenes			
	2425-06-1	Captafol	0.1	Reg. 7(1)	Application
2773	133-06-2	Captan	0.1	Reg. 7(1)	Application

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	6804-07-5	Carbadox	0.1		
2757	63-25-2	Carbaryl	0.1	Reg. 7(1)	Application
3077 n.o.s.	10605-21-7	Carbendazim	≥1	Reg. 7(1)	Application
1361*	1333-86-4	Carbon black	0.1		Carbon black and dusty materials with a content of respirable carbon black ≥ 0.1% are covered.
		Carbon black extracts	0.1		
		Carbon-derived substances:			
	8007-45-2 65996-89-6 65996-90-0 101316-84-1	Carbon-derived substances classified as Carc1, cf. the list of dangerous substances issued by the Danish Environmental Protection Agency, including carbon derived substances defined by EINECS numbers 309-886-6, 232-361-7, 266-024-0 and 266-025-6	0.1		
	65996-93-2 84650-02-2 90640-86-1	Carbon-derived substances not mentioned in this annex containing ≥ 0.1 % benzene or ≥ 0.005% benzo(a)pyrene and/or classified as Carc2, cf. the list of dangerous substances issued by the Danish Environmental Protection Agency as well as carbon derived substances defined by EINECS numbers 266-028-2, 283-482-7 and 292-607-4	0.1		
		Other coal tar products, including coal tar pitch, distillates with $k_p > 200^\circ\text{C}$ , except for naphthalene (CAS.no. 91-20-3) and not mentioned otherwise in this annex	0.1		
	97722-04-8	Carbon hydrides, $\text{C}_{26-55}$ , aromatrige	0.1		
	492-80-8	4,4-Carbon imidoylbis ( <i>N,N</i> -dimethylaniline), see Auramine			

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
		4,4'-Carbon imidoylbis ( <i>N,N</i> -dimethylaniline), salts hereof, see Auramine, salts hereof			
1846	56-23-5	Carbon tetrachloride, see Tetrachloromethane			
		Carrageenan, degraded	0.1		
		Cartasol Yellow M-GL conc. with ELINCS no. 401-500-5	0.1		
	13010-47-4	CCNU	0.1		
		Ceramic fibres, see Synthetic mineral fibres			
	115-28-6	Chlorendic acid	0.1		
		Chlorinated C12-paraffines (about 60% chlorinated)	0.1	Reg. 7(1)	Application
		$\alpha$ -Chlorinated toluenes:			
1886	98-87-3	Benzal chloride	0.1		
1738	100-44-7	Benzyl chloride	0.1	Reg. 7(1)	Application
2226	98-07-7	Trichloromethylbenzene	0.1	Reg. 7(1)	Application
	56-75-7	Chloroamphenicol	0.1		
2018	106-47-8	<i>p</i> -Chloroaniline	0.1		
1991	126-99-8	2-Chloro-1,3-butadien	0.1		
2761*	57-74-9 5103-71-9 5103-74-2 5566-34-7 12789-03-6	Chlorodane	0.1	Reg. 7(1)	Application
2761*	143-50-0	Chlorodecon	0.1	Reg. 7(1)	Application
2761*	6164-98-3	Chlorodimeform	0.1	Reg. 7(1)	Application
	19750-95-9	Chlorodimeformhydrochloride	0.1	Reg. 7(1)	Application
1239	107-30-2	Chlorodimethylether	0.1		
	51594-55-9	( <i>R</i> )-1-Chloro-2,3-epoxypropane	0.1		
1037	75-00-3	Chloroethane	0.1	Reg. 7(1)	Application
2232	107-20-0	2-Chloroethanal, see Chloroacetaldehyde			
	13010-47-4	1-(2-Chloroethyl)-3-cyclohexyl-1-nitrosourea, see CCNU			
1086	75-01-4	Chloroethylene, see Vinylchloride			
	13909-09-6	1-(2-Chloroethyl)-3-(4-methylcyclohexyl)-1-nitrosourea, see 1-Methyl-CCNU			

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
1063	74-87-3	Chloromethane, see Methylchloride			
1239	107-30-2	Chloromethylmethylether, see Chlorodimethylether			
	513-37-1	1-Chloro-2-methylpropene	0.1		
1578	100-00-5	1-Chloro-4-nitrobenzene	0.1		
	494-03-1	Chloronaphazine	0.1	Reg. 7(1)	Application
1888	67-66-3	Chloroform	0.1	Reg. 7(1)	Application
1991	126-99-8	Chloroprene, see 2-Chloro-1,2-butadiene			
	54749-90-5	Chlorozotocin	0.1		
	150-68-5	3-(4-Chlorophenyl)-1,1-dimethylurea, see Monuron			
	140-41-0	3-(4-Chlorophenyl)-1,1-dimethyluronium-trichloroacetate, see Monuron-TCA			
	95-83-0	4-Chloro- <i>o</i> -phenyldiamine	0.1		
		4-Chloro- <i>o</i> -phenyldiamine, salts hereof	0.1		
	133855-98-8	Cis-(.PM.)-1-((3-(2-Chlorophenyl)-2-(4-fluorophenyl)oxiranyl)methyl)-1H-1,2,4-triazol	0.1		
	1897-45-6	Chlorothalonil	0.1	Reg. 6(20) Reg. 7(2)-(4)  Reg. 7(1)	Application of antifouling paint containing the substance as biocide. Other application
2239	95-69-2	4-Chloro-2-toluidine	0.1		
	3165-93-3	4-Chloro-2-toluidine-hydrochloride	0.1		
2761*	6164-98-3	<i>N</i> <sup>l</sup> -(4-Chloro- <i>o</i> -tolyl)- <i>N,N</i> -dimethylformamidine, see Chlorodimeform			
	19750-95-9	<i>N</i> <sup>l</sup> -(4-Chloro- <i>o</i> -tolyl)- <i>N,N</i> -dimethylformamidine-hydrochloride, see Chloro-dimeformhydrochloride			
1760 n.o.s.	5216-25-1	1-Chloro-4-(trichloromethyl)benzene	0.1		
	84332-86-5	Chlozoolinate	0.1		
		Chromium compounds, hexavalent, including:			



UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	11103-86-9 13530-65-9 15930-94-6	Zinc chromate	0.1	Reg. 6(1)  Reg. 7(1)	The application of products where it is necessary to obtain sufficient fastening on hard aluminium if there is a risk of aerosol formation. If there is no risk of aerosol formation, only regulations 1-4 apply. Other application
		Chromium compounds, other hexavalent compounds	0.1	Reg. 7(1)	Application
	14977-61-8	Chromium(VI)dichloride dioxide, see chromium compounds, hexavalent			
1758	14977-61-8	Chromium(VI) oxichloride, see Chromium compounds, hexavalent (Chromium(VI) dichloride dioxide)			
1463	1333-82-0	Chromium trioxide, see Chromium compounds, hexavalent			
	117-10-2	Chrysazine, see Dantron			
	218-01-9	Chrysene	0.1		
	6459-94-5	CI Acid Red 114, see Azocolorants (Acid Red 114)			
	569-61-9	CI Basic Red 9	0.1		
		CIB R634 with ELINCS no. 406-220-7	0.1		
	2429-74-5	CI Direct Blue 15 (technical quality), see Benzidine-based azocolorants (Direct Blue 15)			
	2832-48-8	CI Disperse Yellow 3	0.1		
	59865-13-3 79217-60-0	Ciclosporin	0.1		
	842-07-9	CI Solvent Yellow 14, see 1-Phenylazo-2-naphthol			
	15663-27-1	Cisplatin	0.1		



UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	573-58-0	Congo Red, see Benzidin-based azocolorants (Direct Red 28)			
	8001-58-9	Creosote with content $\geq 0.1\%$ benzene or $\geq 0.005\%$ benzo(a)pyrene	0.1	Reg. 7(1)	Application
	8001-58-9	Creosote with content $< 0.1\%$ benzene or $< 0.005\%$ benzo(a)pyrene	0.1	Reg. 7(1)	Application
	61789-28-4 70321-79-8 90640-84-9 90640-85-0	Creosote oil with content $\geq 0.1\%$ benzene or $\geq 0.005\%$ benzo(a)pyrene	0.1	Reg. 7(1)	Application
	61789-28-4 70321-79-8 90640-84-9 90640-85-0	Creosote oil with content $< 0.1\%$ benzene or $< 0.005\%$ benzo(a)pyrene	0.1	Reg. 7(1)	Application
	120-71-8	<i>p</i> -Cresidin	0.1	Reg. 7(1)	Application
		<i>p</i> -Cresidin, salts hereof	0.1	Reg. 7(1)	Application
	14464-46-1	Christobalite, see Crystalline silicon dioxide			
	64742-03-6 64742-04-7 64742-05-8 64742-11-6 91995-78-7	Crude oil distillates, aromatic extracts hereof, see Aromatic extracts of crude oil distillates			
		Crystalline silicon dioxide, including among others:	2.0		Respirable crystalline silicon dioxide and dusty materials with content hereof are covered.
	14464-46-1	Cristobalite	2.0		
	14808-60-7	$\alpha$ -Quartz	2.0		
	15468-32-3	Tridymite	2.0		
	1317-95-9	Tripoli	2.0		
	4342-03-4	Dacarbazine	0.1		
	1596-84-5	Daminozide	0.1	Reg. 7(1)	Application
	117-10-2	Dantron	0.1		
	20830-81-3	Daunomycine	0.1		
2761*	50-29-3	DDT	0.1	Reg. 7(1)	Application
	62-73-7	DDVP, see Dichlorovos			
	613-35-4	<i>N,N'</i> -Diacetylbenzidine	0.1	Reg. 7(1)	Application
	2303-16-4	Diallate	0.1	Reg. 7(1)	Application
	615-05-4	2,4-Diaminoanisol, see 4-Methoxy-1,3-benzenediamine			
		2,4-Diaminoanisol, salts hereof, see 4-Methoxy-1,3-benzendiamin, salts hereof			

UN. no.	CAS.no.		Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	101-80-4		4,4'-Diaminodiphenylether	0.1	Reg. 7(1)	Application
			4,4'-Diaminodiphenylether, salts hereof	0.1	Reg. 7(1)	Application
2651	101-77-9		4,4'-Diaminodiphenylmethane, see 4,4'-Methylenedianiline			
			4,4'-Diaminodiphenylmethane, salts hereof, see 4,4'-Methylenedianiline, salts hereof			
1709	95-80-7 25376-45-8		Diaminotoluene	0.1		
			2,4-Diaminotoluene, salts hereof	0.1		
2930* n.o.s.	119-90-4	/	<i>o</i> -Dianisidine	0.1		
			<i>o</i> -Dianisidine, salts hereof	0.1		
			<i>o</i> -Dianisidine-based azo substances, except for such mentioned on the list of dangerous substances without classification as carcinogens issued by the Danish Environmental Protection Agency.	0.1	Reg. 7(1)	Application
	334-88-3		Diazomethane	0.1		
	226-36-8		Dibenzo( <i>a.h</i> )acridine	0.1	Reg. 7(1)	Application
	224-42-0		Dibenzo( <i>a.j</i> )acridine	0.1	Reg. 7(1)	Application
	53-70-3		Dibenzo( <i>a.h</i> )anthracene	0.1	Reg. 7(1)	Application
	194-59-2		7 <i>H</i> -Dibenzo( <i>c.g</i> )carbazol	0.1	Reg. 7(1)	Application
	192-65-4		Dibenzo( <i>a.e</i> )pyrene	0.1	Reg. 7(1)	Application
	189-64-0		Dibenzo( <i>a.h</i> )pyrene	0.1	Reg. 7(1)	Application
	189-55-9		Dibenzo( <i>a.i</i> )pyrene	0.1	Reg. 7(1)	Application
	191-30-0		Dibenzo( <i>a.l</i> )pyrene	0.1	Reg. 7(1)	Application
2872	96-12-8		1,2-Dibromo-3-chloropropane	0.1	Reg. 7(1)	Application
1605	106-93-4		1,2-Dibromoethane	0.1	Reg. 7(1)	Application
	6994-18-4		2,2-Dibromo-2-nitroethanol	0.1		
	96-13-9		2,3-Dibromo-1-propanol			
	924-16-3		<i>N,N</i> -Dibutylnitrosoamine, see <i>N</i> -Nitrosodibutylamine			
	7572-29-4		Dichloroacetylene	0.1		
	2303-16-4		<i>S</i> -2,3-Dichloroallyl diisopropylthiocarbamate, see Diallate			
3077 n.o.s.	106-46-7	/	<i>p</i> -Dichlorobenzene	0.1	Reg. 7(1)	Application

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
3077 n.o.s. 2811* n.o.s.	91-94-1	3,3-Dichlorobenzidine	0.1	Reg. 7(1)	Application
		3,3-Dichlorobenzidine, salts hereof	0.1		
1993 n.o.s.	764-41-0	1,4-Dichloro-2-butene	0.1		
	28434-86-8	3,3-Dichloro-4,4'-diaminodiphenylether	0.1	Reg. 7(1)	Application
		3,3-Dichloro-4,4'-diaminodiphenylether, salts hereof	0.1	Reg. 7(1)	Application
1916 2761*	111-44-4 50-29-3	2,2-Dichlorodiethylether Dichlorodiphenyltrichloroethane, see DDT	0.1		
1184	107-06-2	1,2-Dichloroethane	0.1	Reg. 7(1)	Application
1303	75-35-4	1,1-Dichloroethene	0.1	Reg. 7(1)	Application
	7572-29-4	Dichloroethyne, see Dichloroacetylene			
1593	75-09-2	Dichloromethane	0.1	Reg. 7(1)	Application
	51-75-2	2,2-Dichloro- <i>N</i> -methyl-diethylamine	0.1	Reg. 7(1)	Application
	126-85-2	2,2-Dichloro- <i>N</i> -methyl-diethylamine- <i>N</i> -oxide	0.1	Reg. 7(1)	Application
	36734-19-7	3-(3,5-Dichlorophenyl)- <i>N</i> -isopropyl-2,4-dioxoimidazolidine-1-carboxamide, see Iprodion			
	50471-44-8	<i>N</i> -(3,5-Dichlorophenyl)-5-methyl-5-vinyl-1,3-oxazolidin-2,4-dion, see Vinclozolin			
	1836-75-5	2,4-Dichlorophenyl-4-nitrophenylether, see Nitrofen			
	112281-77-3	2-(2,4-Dichlorophenyl)-3-(1 <i>H</i> -1,2,4-triazol-1-yl)propyl-1,1,2,2-tetrafluoroethylether, see Tetraconazol			
2750	96-23-1	1,3-Dichloro-2-propanol	0.1	Reg. 7(1)	Application
2047	542-75-6 10061-01-5 10061-02-6	1,3-Dichloropropene (technical goods)	0.1	Reg. 7(1)	Application
1886	98-87-3	$\alpha$ . $\alpha$ -Dichlorotoluene, see $\alpha$ -Chlorinated toluenes (Benzalchloride)			
2783*	62-73-7	(2,2-Dichlorovinyl) dimethylphosphate, see Dichlorvos			
2783*	62-73-7	Dichlorvos	0.1	Reg. 7(1)	Application
2995*	60-57-1	Dieldrin	0.1	Reg. 7(1)	Application
	1464-53-5	Diepoxybutane	0.1	Reg. 7(1)	Application

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
1202*		Diesel fuel for marine engines	0.1		
	1116-54-7	<i>N,N</i> -Diethanolnitrosoamine, see <i>N</i> -Nitrosodiethanolamine			
2922	88-10-8	Diethylcarbamoylchloride	0.1		
	1615-80-1	1,2-Diethylhydrazine	0.1		
	55-18-5	<i>N,N</i> -Diethylnitrosoamine, see <i>N</i> -Nitrosodiethylamine			
	56-53-1	Diethylstilboestrol	0.1		
1594	64-67-5	Diethylsulfate	0.1		
	101-90-6	Diglycidylresorcinol ether	0.1		
	23246-96-0	13,19-Dihydro-12, 18-dihydroxysenecionan-11,16-dion, see Riddelliine			
	85136-74-9	1,2-Dihydro-6-hydroxy-1- (3-isopropoxypropyl)-4-methyl-2-oxo-5-[4-(phenylazo)phenylazo]pyridine-3-carbonitrile	0.1		
	602-87-9	1,2-Dihydro-5-nitroacenaphthylene, see 5-Nitroacenaphthene			
	94-58-6	Dihydrosaffrol	0.1	Reg. 7(1)	Application
	117-10-2	1,8-Dihydroxy-anthraquinon, see Dantron			
	331-39-5	3,4-Dihydroxy cinnamon acid, see Caffeic acid			
	794-93-4	Dihydroxymethylfuratrizine	0.1	Reg. 7(1)	Application
	114565-66-1	4-(4-(1,3-Dihydroxyprop-2-yl)-phenylamino)-1,8-dihydroxy-5-nitroanthraquinone	0.1		
2078	584-84-9	2,4-Diisocyanatoluene	0.1		
2078	91-08-7 26471-62-5	2,6-Diisocyanatoluene	0.1		
	2973-10-6	Diisopropylsulfate	0.1		
2930* n.o.s.	119-90-4	3,3'-Dimethoxybenzidine, see <i>o</i> -Dianisidin			
		3,3'-Dimethoxybenzidine, salts hereof, see <i>o</i> -Dianisidin, salts hereof			
	6358-53-8	1-((2,5-dimethoxyphenyl)azo)-2-naphthol, see Azocolorants (Solvent Red 80)			

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	60-11-7	<i>p</i> -Dimethylaminoazobenzene, see Azocolorants (Solvent Yellow 2)			
	55738-54-0	<i>trans</i> -2-((Dimethylamino)methylimino)-5-(2-(5-nitro-2-furyl)vinyl)-1,3,4-oxadiazol	0.1	Reg. 7(1)	Application
	87-62-7	2,6-Dimethylaniline, see 2,6-Xylidine	0.1		
2253	121-69-7	<i>N,N</i> -Dimethylaniline	0.1		
		<i>N,N</i> -Dimethylanilinium tetrakis (pentafluorophenyl)borate with ELINCS no. 422-050-6	0.1		
	57-97-6	7,12-Dimethylbenzo( <i>a</i> )anthracene	0.1	Reg. 7(1)	Application
2930 n.o.s.	119-93-7	3,3'-Dimethylbenzidine, see <i>o</i> -Tolidine			
		3,3'-Dimethylbenzidine, salts hereof, see <i>o</i> -Tolidine, salts hereof			
2262	79-44-7	Dimethylcarbamoylchloride	0.1		
2956	81-15-2	1-(1,1-Dimethylethyl)-3,5-dimethyl-2,4,6-trinitrobenzene	0.1		
1163	57-14-7	1,1-Dimethylhydrazine	0.1		
2382	540-73-8	1,2-Dimethylhydrazine	0.1	Reg. 7(1)	Application
	62-75-9	<i>N,N</i> -Dimethylnitrosoamine, see <i>N</i> -Nitrosodimethylamine			
1760* n.o.s.	13360-57-1	Dimethylsulfamoylchloride	0.1		
1595	77-78-1	Dimethylsulfate	0.1		
	105735-71-5	3,7-Dinitrofluoranthene	0.1		
	22506-53-2	3,9-Dinitrofluoranthene	0.1		
	42397-64-8	1,6-Dinitropyrene	0.1		
	42397-65-9	1,8-Dinitropyrene	0.1		
2038	121-14-2 602-01-7 606-20-2 610-39-9 618-85-9 619-15-8 25321-14-6	Dinitrotoluene	0.1		
1165	123-91-1	1,4-Dioxane	95-100	Reg. 7(1)	Application of dioxane (as technical goods) 95-100%
			0.1	Reg. 6(2)-(4)	Other application

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	621-64-7	<i>N,N</i> -Dipropylnitrosoamine, see <i>N</i> -Nitrosodipropylamine			
	1937-37-7	Direct Black 38 (technical goods), see Benzidine-based azo-colorants			
	2602-46-2	Direct Blue 6 (technical goods), see Benzidine-based azo-colorants			
	72-57-1	Direct Blue 14 (technical goods), see Benzidine-based azo-colorants			
	16071-86-6	Direct Brown 95 (technical goods), see Benzidine-based azo-colorants			
	573-58-0	Direct Red 28, see Benzidine-based colorants			
	2475-45-8	Disperse Blue 1	0.1		
	573-58-0	Disodium-3,3 <sup>l</sup> -((1,1 <sup>l</sup> biphenyl)-4,4 <sup>l</sup> -diylbis(azo))bis(4-aminonaphthalene-1-sulfonate, see Benzidine-based azo-colorants (Direct Red 28)			
3077 n.o.s.	330-54-1	Diuron	0.1	Reg. 7(1)	Application
2023	106-89-8	Epichlorohydrine	0.1		
3022	106-88-7	1,2-Epoxybutane	0.1	Reg. 7(1)	Application
2023	106-89-8	2,3-Epoxy-1-chloropropane, see Epichlorohydrine			
	96-09-3	(Epoxyethyl)benzene, see Styrene oxide			
2810	556-52-5	2,3-Epoxy-1-propanol	0.1		
	57044-25-4	( <i>R</i> )-2,3-Epoxypropan-1-ol, see <i>R</i> -Glycidol			
	12510-42-8	Erionite	0.1		
	66733-21-9	Erionite fibres	0.1		
	50-28-2	17 $\beta$ -Estradiol	0.1		
	81-14-1	Ethanone (1-(4(1,1-dimethylethyl)-2,6-dimethyl-3,5-dinitrophenyl)-	0.1		
	57-63-6	Ethinylestradiol	0.1		
1917	140-88-5	Ethylacrylate	0.1		
1175	100-41-4	Ethylbenzene	0.1		
2991*	51-79-6	Ethylcarbamate, see Urethane			

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	84332-86-5	Ethyl-( <i>RS</i> )-3-(3,5-dichlorophenyl)-5-methyl-2,4-dioxooxazolidine-5-carboxylate, see Chlozolate			
	106-93-4	Ethylene dibromide, see 1,2-Dibromoethane			
1184	107-06-2	Ethylene dichloride, see 1,2-Dichloroethane			
1185	151-56-4	Ethylenimine	0.1		
1040	75-21-8	Ethylene oxide	0.1	Reg. 7(1)	Application
	2212-67-1	S-Ethylhexahydroazepin-1-carbothioate	0.1		
	62-50-0	Ethylmethane sulfonate	0.1		
	10595-95-6	<i>N,N</i> -Ethylmethylnitrosoamine, see <i>N</i> -Nitrosoethylmethylamine			
	2593-15-9	Etridiazol	0.1		
		Exhaust gas from petrol engines, condensates and extracts			
		Exhaust gas from diesel engines, total fraction and extracts of particle fraction			
	133-07-3	Folpet	0.1	Reg. 7(1)	For application of paint, etc., only regulations 1-4 apply. Other application
1198* 2209	50-00-0	Formaldehyde	0.1 ≥1 ≥1	Reg. 7(1) Reg. 7(1) Reg. 7(1)	Detergents. Disinfectants Paint, varnishes, glues, hardeners, printing ink, etc. Other application
		Formaldehyde, reaction product with acetophenone, cyclohexylamine, methanol and formaldehyde, see Acetophenone, reaction product with formaldehyde, cyclohexylamine, methanol and acetic acid			

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	3570-75-0	2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)thiazol	0.1	Reg. 7(1)	Application
	68553-00-4 68476-33-5 68476-32-4 92045-14-2	Fuel oils defined by EINECS numbers 271-384-7, 270-675-6, 270-674-0 and 295-396-7	0.1		See also Heating oils, heavy
	68476-30-2 68476-31-3	Fuel oils defined by EINECS numbers 270-671-4 and 270-673-5	0.1		See also Heating oils, heavy
	76-34-6 94114-59-7 94114-58-6	Fuel oils defined by EINECS numbers 270-676-1, 302-695-9 and 302-694-3	0.1		See also Diesel fuel for marine engines
1199	98-01-1	Furfural	0.1		
	60568-05-0	Furmecycloxy	0.1	Reg. 7(1)	Application
	3688-53-7	2-(2-Furyl)-3-(5-nitro-2-furyl)acrylamide, see AF-2			
	64741-57-7 64742-59-2 64742-86-5 68527-18-4 68783-08-4 85117-03-9 92045-29-9 97926-59-5	Gas oils defined by EINECS numbers 271-260-2, 285-55-9, 265-189-6, 308-278-8, 265-162-9, 295-411-7, 272-184-2 and 265-058-3	0.1		
		Glass wool fibres, see Synthetic mineral fibres			
	67730-11-4	Glu-P-1	0.1		
	67730-10-3	Glu-P-2	0.1		
2622	765-34-4	Glycidaldehyde	0.1		
	57044-25-4	R-Glycidol	0.1		
		S-Glyto with ELINCS no. 417-210-7	0.1		
	126-07-8	Griseofulvin	0.1		
	16568-02-8	Gyromitrin	0.1	Reg. 7(1)	Application
	2784-94-3	HC Blue No. 1	0.1		
2761	319-84-6 319-85-7 319-86-8 608-73-1 6108-10-7	HCH, except for Lindan	0.1	Reg. 7(1)	Application
		Heating oils, heavy (Grade no. 4 to Grade no. 6)	0.1		
2761	76-44-8	Heptachlor	0.1	Reg. 7(1)	Application
	1024-57-3	Heptachloroepoxide	0.1	Reg. 7(1)	Application
2729	118-74-1	Hexachlorobenzene	0.1	Reg. 7(1)	Application
2761*	319-84-6 319-85-7 319-86-8 608-73-1 6108-10-7	1,2,3,4,5,6-Hexachlorocyclohexane, see HCH			

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
2995*	60-57-1	1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4- <i>exo</i> -5,8- <i>endo</i> -dimethanonaphthalene, see Dieldrin			
	67-72-1	Hexachloroethane	0.1	Reg. 7(1)	Application
	309-00-2	1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4- <i>endo</i> -5,8- <i>exo</i> -dimethanonaphthalene, see Aldrin			
	680-31-9	Hexa-methylphosphortriamide	0.1		
	84-16-2	Hexestrol	0.1		
2029	302-01-2	Hydrazine	0.1	Reg. 7(1)	Application
		Hydrazine, salts hereof	0.1		
	148434-03-1	Hydrazinbis (3-carboxy-4-hydroxybenzensulfonate)	0.1		
		Hydrazine(trinitromethane)	0.1		
	122-66-7	Hydrazobenzene	0.1		
2662	123-31-9	Hydroquinone	0.1	Reg. 7(1)	Application
	2832-40-8	<i>N</i> -[4-[(2-Hydroxy-5-methylphenyl)azo]phenyl]acetamide, see CI Disperse Yellow 3			
	148434-03-1	Hydrozinbis(3-carboxy-4-hydroxybenzensulfonate)	0.1		
	193-39-5	Indeno(1,2,3- <i>cd</i> )pyrene	0.1	Reg. 7(1)	Application
2644	74-88-4	Iodmethane, see Methyl iodide			
	36734-19-7	Iprodione	0.1		
	76180-96-6	IQ	0.1		
	9004-66-4	Iron dextrane	0.1		
		Isobutane containing $\geq$ 0.1% 1,3-butadiene	0.1		
2351	542-56-3	Isobutylnitrite	$\geq$ 1 0.1	Reg. 7(1) Reg. 7(1)	Thinners, paints, glues etc. Other application
	78-59-1	Isophorone	0.1		
1218	78-79-5	Isoprene	0.1		
	34123-59-6	Isoproturone	0.1	Reg. 7(1)	Application
	120-58-1	Isosafrol	0.1		
2761*	143-50-0	Kepone, see Chlordecone			

UN. no.	CAS.no.		Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	143390-89-0		Kresoxim-methyl	0.1		
	303-34-4		Lasiocarpine	0.1	Reg. 7(1)	Application
1616	301-04-2		Lead acetate	0.1	Reg. 7(1)	Application
2291	1335-32-6					
n.o.s.	6080-56-4					
	6080-56-4		Lead acetate, trihydrate, see Lead acetate			
2291	1344-37-2		Lead chromate, see Chromium compounds, hexavalent			
n.o.s.	1344-38-3					
	7758-97-6					
	12656-85-8					
	18454-12-1					
	7784-40-9		Lead hydrogenarsenate	0.1	Reg. 7(1)	Application
	7446-27-7		Lead phosphate	0.1	Reg. 7(1)	Application
	15845-52-0					
1616	1335-32-6		Lead subacetate	0.1	Reg. 7(1)	Application
			Magenta containing CI Basic Red 9	0.1		
	68006-83-7		MeA- $\alpha$ -C	0.1		
	71-58-9		Medroxyprogesteronacetate	0.1		
	77094-11-2		MeIQ	0.1		
	77500-04-0		MeIQx	0.1		
	148-82-3		Melphalane	0.1		
	531-76-0		Merphalane	0.1	Reg. 7(1)	Application
	72-33-3		Mestranol	0.1		
	548-62-9	/	Methanaminium, <i>N</i> -(4-(bis(4-(dimethylamino)phenyl)methylene).2,5-cyclohexdien-1-yliden)- <i>N</i> -methyl-,chloride	0.1		
			Methanol, reaction product with acetophenone, cyclohexylamine, formaldehyde and acetic acid, see Acetophenone, reaction product with formaldehyde, cyclohexylamine, methanol and acetic acid			
2431	90-04-0		<i>o</i> -Methoxyaniline, see <i>o</i> -Anisidine			
	615-05-4		4-Methoxy-1,3-benzodiamine	0.1		

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	614-94-8 39156-41-7	4-Methoxy-1,3-benzodiamine, salts hereof	0.1		
	484-20-8	5-Methoxypsoralene	0.1		
	298-81-7	8-Methoxypsoralene and UV-radiation	0.1		
	77402-05-2	Methylacrylamidoglycolate (containing 0.1% acrylamide)	0.1		
	77402-03-0	Methylacrylamido-methoxyacetate (containing 0.1% acrylamide)	0.1		
	106-49-0	4-Methylanine, see <i>p</i> -Toluidine			
1912	75-55-8	2-Methylaziridine, see Propylenimine			
	590-96-5	Methylazoxymethanol	0.1	Reg. 7(1)	Application
	592-62-1	(Methylazoxymethyl) acetate	0.1	Reg. 7(1)	Application
	592-62-1	(Methyl- <i>ONN</i> -azoxy) methylacetate, see (Methyl azoxymethyl)acetate			
3077 n.o.s.	10605-21-7	Methylbenzimidazol-2-yl-carbamate, see carbendazim			
	13909-09-6	1-Methyl-CCNU	0.1		
1063	74-87-3	Methylchloride	0.1	Reg. 7(1)	Application
	56-49-5	3-Methylcholanthrene	0.1	Reg. 7(1)	Application
	3697-24-3	5-Methylchrysene	0.1	Reg. 7(1)	Application
	101-14-4	4,4 <sup>l</sup> -Methylenbis(2-chloroaniline)	0.1		
		4,4 <sup>l</sup> -Methylenbis(2-chloroaniline), salts hereof	0.1		
	101-61-1	4,4 <sup>l</sup> -Methylenbis( <i>N,N</i> -dimethylaniline)	0.1		
	19900-65-3	4,4 <sup>l</sup> -Methylenbis(2-ethylaniline)	0.1	Reg. 7(1)	Application
	838-88-0	4,4 <sup>l</sup> -Methylenbis(2-methylaniline)	0.1	Reg. 7(1)	Application
		4,4 <sup>l</sup> -Methylenbis(2-methylaniline), salts hereof	0.1	Reg. 7(1)	Application
1593	75-09-2	Methylenchloride, see Dichloromethane			
2651	101-77-9	4,4 <sup>l</sup> -Methylenedianiline	0.1		In paint for repairs of chemical tanks. Other application
		4,4 <sup>l</sup> -Methylenedianiline, salts hereof	0.1	Reg. 7(1)	

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	838-88-00	4,4'-Methylendi- <i>o</i> -toluidine, see 4,4'-Methylenbis(2-methylaniline)			
2644	74-88-4	Methyliodide	0.1		
		Methyl mercury compounds, including among others:	0.1	Reg. 7(1)	Application
	115-09-3	Methyl mercury chloride	0.1	Reg. 7(1)	Application
	66-27-3	Methylmethane-sulfonate	0.1		
	143390-89-0	Methyl-( <i>E</i> )-2-methoxyimino-2-( <i>o</i> -tolylloxymethyl)phenyl)acetate, see Kresoxim-methyl			
2660	99-55-8	2-Methyl-5-niriline	0.1		
	129-15-7	2-Methyl-1-nitroanthraquinone	0.1	Reg. 7(1)	Application
	70-25-7	<i>N</i> -Methyl- <i>N'</i> -nitro- <i>N</i> -nitrosoguanidine	0.1		
	60153-49-3	3-(Methylnitrosamino)propionitrile, see MNPN			
	64091-91-4	4-( <i>N</i> -Methyl- <i>N</i> -nitrosoamino)-1-(3-pyridyl)-1-butanone, see NNK			
1280	75-56-9	Methyloxirane, see 1,2-Propylenoxide			
1709	95-80-7	4-Methyl- <i>m</i> -phenylenediamine, see 2,4-Diaminotoluene			
	56-04-2	Methylthiouracile	0.1		
	4549-40-0	<i>N,N</i> -Methylvinylnitrosoamine, see <i>N</i> -Nitrosomethylvinylamine			
	443-48-1	Metronidazol	0.1		
	2385-85-5	Mirex	0.1	Reg. 7(1)	Application
	50-07-7	Mitomycin C	0.1		
	60153-49-3	MNPN	0.1		
	101-14-4	MOCA, see 4,4'-Methylenbis(2-chloroaniline)			
	315-22-0	Monocrotaline	0.1	Reg. 7(1)	Application

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	150-68-5	Monuron	0.1	Reg. 7(1)	When applied in content < 5% as a catalyst and/or biocide in epoxy products, only regulations 1-4 apply. Other application
	140-41-0	Monuron-TCA	0.1	Reg. 7(1)	Application
		MOPP and other combined chemotherapy, incl. Alkylating compounds (nitrogen, mustard gas, vincristine, procarbazine and prednison)			
	15159-40-7	4-Morpholinocarbamoylchloride	0.1		
	139-91-3	5-(Morpholinomethyl)-3-((5-nitrofurfuryliden)-amino)-2-oxazolidinon	0.1	Reg. 7(1)	Application
1203		Motor petrol		Reg. 7(1)	For filling of motor petrol as well as repairs and maintenance of petrol engines, etc., only regulations 1-4 apply. Other application
	505-60-2	Mustard gas, see Bis(2-chloroethyl) sulfide			
	55-98-1	Myleran	0.1		
	3771-19-5	Nafenopin	0.1	Reg. 7(1)	Application
	91-20-3	Naphthalene	≥10 0.1-10	Reg. 7(1)	Application
	842-07-9	2-Naphthalenol, 1-(phenylazo), see 1-Phenylazo-2-naphthol			
	64742-68-3 64742-69-4 64742-75-2 64742-76-3	Naphthalene oil with content ≥3% DMSO extract	0.1	Reg. 7(1)	Application

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	64742-68-3 64742-69-4 64742-75-2 64742-76-3	Naphthalene oil with content <3% DMSO extract	0.1	Reg. 7(1)	Application
1650	91-59-8	2-Naphthylamine	0	Reg. 7(1)	Application The prohibition does not apply if the substance occurs in a substance or material in the form of impurities, by-products or as an element of waste products and the concentration of the substance is less than 0.1 percent by weight. A risk assessment is only relevant when application is permitted.
		2-Naphthylamine, salts hereof	0	Reg. 7(1)	
	2243-62-1	1,5-Naphthylendiamine	0.1		
	86-88-4	1-(1-Naphthyl)-2-thiourea, see Antu			

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
1378	7440-02-0	Nickel	0.1	Reg. 6 (6)  Reg. 7(1)	Application as powder/in dust form. Welding and cutting in stainless steel and grinding in this compound. Metal alloys are covered only by regulations 1-4. Other application
	3333-67-3	Nickel carbonate	0.1	See Nickel, other compounds	See Nickel, other compounds
1259	13463-39-3	Nickel carbonyl	0.1	See Nickel, other compounds	See Nickel, other compounds
	12054-48-7	Nickel dihydroxide	0.1	See Nickel, other compounds	See Nickel, other compounds
	12035-36-8	Nickel dioxide	0.1	Reg. 7(1)	Application of catalysts  Other application
	1313-99-1	Nickel oxide	0.1	Reg. 7(1)	Application of catalysts. Other application
	12035-72-2	Nickel subsulfide	0.1	Reg. 7(1)	Application of catalysts. Other application
	7786-81-4	Nickel sulfate	0.1	See Nickel, other compounds	See Nickel, other compounds
	16812-54-7	Nickel sulfide	0.1	Reg. 7(1)	Application of catalysts. Other application

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	12137-08-5	Nickel(I)sulfide	0.1	See Nickel, other compounds	See Nickel, other compounds
	1314-06-3	Nickel trioxide	0.1	Reg. 7(1)	Application of catalysts. Other application
		Nickel, other compounds	0.1	Reg. 7(1)	Application of catalysts. Application as powder/in dusty form. Application of paint products, printing ink, etc. Other application
	61-57-4	Niridazol	0.1		
	139-13-9 5064-31-3 10042-84-9 15467-20-6 18662-53-8 18994-66-6 23255-03-0	Nitrilotriacetic acid (NTA) and its sodium salts	0.1		Working processes where materials are used such as Cleaning in Place products, products for automatic dishwashers or liquid laundry products with a content of 10% or less of NTA or its sodium salts are not covered by this part if they are used in a closed system with automatic feeding.
	602-87-9	5-Nitroacenaphthene	0.1	Reg. 7(1)	Application
2730	91-23-6	2-Nitroanisol	0.1		
1662	98-95-3	Nitrobenzene	0.1		

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	92-93-3	4-Nitrobiphenyl	0	Reg. 7(1)	Application The prohibition does not apply if the substance occurs in a substance or material in the form of impurities, by-products or as an element of waste products and the concentration of the substance is less than 0.1 percent by weight.
	7496-02-8	6-Nitrochrysene	0.1	Reg. 7(1)	Application
2780*	1836-75-5	Nitrophenene	0.1	Reg. 7(1)	Application
	607-57-8	2-Nitrofluorene	0.1	Reg. 7(1)	Application
	555-84-0	1-((5-Nitrofurfurylidene)amino)-2-imidazolidinone	0.1	Reg. 7(1)	Application
	531-82-8	<i>N</i> -(4-(5-Nitro-2-furyl)-2-thiazolyl)acetamide	0.1	Reg. 7(1)	Application
	51-75-2	Nitrogen mustard gas, see 2,2-Dichloro- <i>N</i> -methyldiethylamine			
	126-85-2	Nitrogen mustard gas <i>N</i> -oxide, see 2,2-Dichloro- <i>N</i> -methyldiethylamine- <i>N</i> -oxide			
1261	75-52-5	Nitromethane	0.1		
	581-89-5	2-Nitronaphthalene	0.1	Reg. 7(1)	Application
2608	79-46-9	2-Nitropropane	0.1		
	5522-43-0	1-Nitropyrene	0.1	Reg. 7(1)	Application
	57835-92-4	4-Nitropyrene	0.1	Reg. 7(1)	Application
	56-57-5	4-Nitroquinoline- <i>N</i> -oxide	0.1		
	924-16-3	<i>N</i> -Nitrosodibutylamine	0.1	Reg. 7(1)	Application
	1116-54-7	<i>N</i> -Nitrosodiethanolamine	0.1		
1602*	55-18-5	<i>N</i> -Nitrosodiethylamine	0.1		
	62-75-9	<i>N</i> -Nitrosodimethylamine	0.1		
	621-64-7	<i>N</i> -Nitrosodipropylamine	0.1	Reg. 7(1)	Application
	10595-95-6	<i>N</i> -Nitrosoethylmethylamine	0.1	Reg. 7(1)	Application
	759-73-9	<i>N</i> -Nitroso- <i>N</i> -ethylurea	0.1		
	615-53-2	<i>N</i> -Nitroso- <i>N</i> -methyl-ethylcarbamate	0.1		
	615-53-2	<i>N</i> -Nitroso- <i>N</i> -methyl-urethane, see <i>N</i> -Nitroso- <i>N</i> -methylethylcarbamate			

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	684-93-5	<i>N</i> -Nitroso- <i>N</i> -methylurea	0.1		
	4549-40-0	<i>N</i> -Nitrosomethylvinylamine	0.1	Reg. 7(1)	Application
	59-89-2	<i>N</i> -Nitrosomorpholine	0.1	Reg. 7(1)	Application
	16543-55-8	<i>N</i> '-Nitrososnicotine	0.1	Reg. 7(1)	Application
	100-75-4	<i>N</i> -Nitrosopiperidine	0.1	Reg. 7(1)	Application
	930-55-2	<i>N</i> -Nitrosopyrrolidine	0.1	Reg. 7(1)	Application
	13256-22-9	<i>N</i> -Nitrososarcosine	0.1	Reg. 7(1)	Application
	64091-91-4	NNK (nicotine-derived nitrosoaminoketone)	0.1		
	68-22-4	Norethisteron	0.1		
		Norethynodrel and oestrogens	0.1		
	303-47-9	Ochratoxin A	0.1		
2761*	57-74-9	1,2,3,4,5,6,7,8,8-Octachloro-3a,4,7,7a-tetrahydro-4,7-methanoindane, see Chlordane			
		Oestrogen, treatment with			
		Oestrogens, conjugated	0.1		
	53-16-7	Oestron	0.1		
		Oil-derived substances containing $\geq 0.1$ % benzene, $\geq 0.1$ % buta-1,3-dien, $\geq 3\%$ DMSO extract or $\geq 0.005\%$ benzo( <i>a</i> )pyrene and/or classified as Carc2, cf. the list of dangerous substances issued by the Danish Environmental Protection Agency, except for as mentioned otherwise in this annex	0.1		
		Oil-derived substances classified as Carc3, cf. the list of dangerous substances issued by the Danish Environmental Protection Agency, except for as mentioned otherwise in this annex	0.1		
	604-75-1	Oxazepane	0.1		
	84332-86-5	5-Oxazolidincarboxyl acid, 3-(3,5-dichlorophenyl)-5-methyl-2,4-dioxo-, ethyl ester, (+-)-, see Chlozolate			
1040	75-21-8	Oxiran, see Ethylene oxide			
		Pain-killers with phenacetine			
		Palygorskite (attpulgite) fibres ( $> 5\mu\text{m}$ )	0.1		
	794-93-4	Panfurane S, see Dihydroxymethylfuratrizine			

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	13654-09-6 27753-52-2 27858-07-7 36355-01-8 59080-40-9 59536-65-1 67774-32-7	PBB, see Polybrominated biphenyls			
	1336-36-3	PCB, see Polychlorinated biphenyls			
1669	76-01-7	Pentachloroethane	0.1	Reg. 7(1)	Application
3155	87-86-5	Pentachlorophenol	0.1	Reg. 7(1)	Application
		Pentachlorophenol, salts hereof	0.1		
	62-44-2	Phenacetine	0.1		
	136-40-3	Phenazopyridine hydrochloride	0.1		
	50-06-6	Phenobarbital	0.1		
	59-96-1	Phenoxybenzamine hydrochloride	0.1		
	842-07-9	1-Phenylazo-2-naphthol			
1673	95-54-5	<i>o</i> -Phenylendiamine			
	615-28-1	<i>o</i> -Phenylendiamine dihydrochloride	0.1		
	122-60-1	Phenylglycidylether	0.1		
2572	100-63-0	Phenylhydrazine	0.1		
	27140-08-5	Phenylhydrazine hydrochloride	0.1		
	59-88-1	Phenylhydraziniumchloride	0.1		
	52033-74-6	Phenylhydraziniumsulfate (2:1)	0.1		
	135-88-6	<i>N</i> -Phenyl-2-naphthylamine	0.1		
	132-27-4	<i>o</i> -Phenylphenol, Na-salt, see Sodium salt of <i>o</i> -phenylphenol			
	57-41-0 630-93-3	Phenytoin and its sodium salt	0.1		
	105650-23-5	PhIP	0.1		
	13654-09-6 27753-52-2 27858-07-7 36355-01-8 59080-40-9 59536-65-1 67774-32-7	Polybrominated biphenyls	0.1	Reg. 7(1)	Application
	1336-36-3	Polychlorinated biphenyls	0.1	Reg. 7(1)	Application
2761*	8001-35-2	Polychlorinated camphenes	0.1	Reg. 7(1)	Application
	3761-53-3	Ponceau MX, see Azocolorants (Acid Red 26)			
	3564-09-8	Ponceau 3R, see Azocolorants			
1484	7758-01-2	Potassium bromate	0.1		

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	7789-00-6	Potassium chromate, see Chromium compounds, hexavalent			
	7778-50-9	Potassium dichromate, see Chromium compounds, hexavalent			
	7778-73-6	Potassium pentachlorophenolate, see Pentachlorophenol, salts hereof			
	1120-71-4	1,3-Propansulton	0.1		
	116355-83-0	1,2,3,- Propantricarboxyl acid, 1,1-[1-(12-amino-1,9, 11-trihydroxy-2-methyltridecyl)-2-(1-methylpentyl)-,2-ethandiyl]ester, see Fumonisine B <sub>1</sub>			
	139-40-2	Propazine	0.1	Reg. 7(1)	Application
2074	79-06-1	2-Propene amide, see Acrylamide			
1917	140-88-5	2-Propene acid ethylester, see Ethylacrylate			
	57-57-8	β-Propiolactone	0.1		
1912	75-55-8	Propylenimine	0.1		
1280	75-56-9	1,2-Propylene oxide	0.1		
	2122-19-2	Propylthiourine substances	0.1		
	51-52-5	Propylthiouracile	0.1		
	23950-58-5	Propyzamide	0.1		
	120-80-9	Pyrocatechol	0.1		
	14808-60-7	α-Quartz, see Crystalline silicon dioxide			
	14859-67-7	Radon-222	0.1		
	101-90-6	Resorcinoldiglycidyl ether, see Diglycidylresorcinol ether			
	23246-96-0	Riddelliine	0.1		
		Rockwool fibres, see Synthetic mineral fibres	0.1		
	94-59-7	Safrol	0.1		
		Sequential contraceptive pills			
	68308-34-9	Shale oil	0.1		
		Silicon dioxide, crystalline, see Crystalline silicon dioxide			
	122-34-9	Simazine	0.1	Reg. 7(1)	Application
		Slag wool fibres, see synthetic mineral fibres			
		Sod			

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	132-27-4	Sodiumbiphenyl-2-yloxyde, see Sodium salt of <i>o</i> -phenylphenol			
	7775-11-3	Sodium chromate, see Chromium compounds, hexavalent			
	10588-01-9	Sodium dichromate, see Chromium compounds, hexavalent			
	7789-12-0	Sodium dichromate, dihydrate, see Chromium compounds, hexavalent			
	573-58-0	Sodium diphenyldiazobis( $\alpha$ -naphthyl-aminosulfonate), see Benzidine-based azocolorants (Direct Red 28)			
	131-52-2	Sodium pentachlorophenolate, see Pentachlorophenol, salts hereof			
	57-30-7	Sodium phenobarbital	0.1		
	132-27-4	Sodium salt of <i>o</i> -phenylphenol	$\geq 1$ 0.1-1	Reg. 7(1)	Application
	10048-13-2	Sterigmatocystine	0.1	Reg. 7(1)	Application
	18883-66-4	Streptozotocine	0.1		
	7789-06-2	Strontium chromate, see Chromium compounds, hexavalent			
2055	100-42-5	Styrene	0.1	Reg. 6(20)  Reg. 6(6) Reg. 6(8) Reg. 6(14) Reg. 7(2)-(4)	All materials. Hardened polyester is not covered. Polyester moulding.
2810 n.o.s. 1993*	96-09-3	Styrene oxide	0.1		
2772	95-06-7	Sulfallate	0.1	Reg. 7(1)	Application
		Synthetic mineral fibres: Ceramic fibres	0.1	Reg. 7(1)	Application

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
		Synthetic mineral fibres: Mineral wool as glass wool fibres, slag wool fibres and rockwool fibres classified as Carc3, cf. the list of dangerous substances issued by the Danish Environmental Protection Agency	0.1	Reg. 7(1)	Working processes developing respirable synthetic mineral fibres are covered by this part.
		T-271 with ELINCS no. 417-980-4	0.1		
		T-69 with ELINCS no. 414-770-4	0.1		
		Talcum with asbestos in the form of fibre			Asbestos, see annex 2.
	10540-29-1	Tamoxifene	0.1		
	1746-01-6	TCDD	0.1	Reg. 7(1)	Application
	58-22-0 481-30-1	Testosterone and its esters	0.1		
	2475-45-8	1,4,5,8-Tetraamino-9,10-anthracendione, see Disperse Blue 1			
	1746-01-6	2,3,7, 8-Tetrachlorodibenzo- <i>p</i> -dioxin, see TCDD			
1897	127-18-4	Tetrachloroethene	0.1	Reg. 7(1)	Application
1897	127-18-4	Tetrachloroethylene, see Tetrachloroethene			
	1897-45-6	Tetrachloroisophthalonitrile, see Chlorothalonile			
1846	56-23-5	Tetrachlorocarbon, see Tetrachloromethane			
1846	56-23-5	Tetrachlormethane	0.1	Reg. 7(1)	When applying materials in which the substance occurs as a residue in chlorocatechol in a content of less than 0.2%, only regulations 1-4 apply. Other application
	112281-77-3	Tetraconazol	0.1		
	116-14-3	Tetrafluoroethylene	0.1		
1510	509-14-8	Tetranitromethane	0.1		
	62-55-5	Thioacetamide	0.1		
	139-65-1	4,4'-Thiodianiline	0.1	Reg. 7(1)	Application
		4,4'-Thiodianiline, salts hereof	0.1	Reg. 7(1)	Application
	52-24-4	Thiotepa	0.1		

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	141-90-2	Thiouracil	0.1		
3077 n.o.s.	62-56-6	Thiourea	≥5  ≥1	Reg. 7(1)  Reg. 7(1)	Tank cleaning agents, polishes and care products as well as other special cleaning agents Other application
		Tobacco smoke			
		Toxines from <i>Fusarium moniliforme</i>			
2811* n.o.s.	119-93-7	/ <i>o</i> -Tolidine	0.1	Reg 7(1)	Application
		<i>o</i> -Tolidine, salts hereof	0.1		
	65321-67-7	Toluene-2,4-diammonium sulfate	0.1		
2078	91-08-7 584-84-9 26471-62-5	2,4- and 2,6- Toluene diisocyanate, see 2,4- and 2,6-Diisocyanate toluene			
1708	95-53-4	<i>o</i> -Toluidine	0.1		
		<i>o</i> -Toluidine, salts hereof	0.1		
1708	106-49-0	<i>p</i> -Toluidine	0.1		
	2646-17-5	1-( <i>o</i> -Tolylazo)-2-naphthol, see Azocolorants (Solvent Orange 2)			
	97-56-3	4-( <i>o</i> -Tolylazo)- <i>o</i> -toluidine, see Azocolorants			
	8001-35-2	Toxaphene, see Polychlorinated camphenes			
	299-75-2	Treosulfane	0.1		
	126-73-8	Tributylphosphate	0.1		
2761*	50-29-3	1,1,1-Trichloro-2,2-bis( <i>p</i> -chlorophenyl)ethane, see DDT			
	2431-50-7	2,3,4-Trichlorobut-1-en	0.1		
3082	79-00-5	1,1,2- Trichloroethene	0.1		
1710	79-01-6	Trichloroethene	0.1	Reg. 7(1)	Application
1710	79-01-6	Trichloroethylene, see Trichloroethene			
1888	67-66-3	Trichloromethane, see Chloroform			
	817-09-4	Trichloromethine	0.1		
2226	98-07-7	Trichloromethylbenzene, see $\alpha$ -Chlorinated toluenes			
2020 2811* n.o.s.	88-06-2	2,4,6-Trichlorophenol	0.1	Reg. 7(1)	Application

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
2810 n.o.s.	96-18-4	1,2,3-Trichloropropane	0.1	Reg. 7(1)	Application
2226	98-07-7	$\alpha$ , $\alpha$ , $\alpha$ -Trichlorotoluene, see $\alpha$ -Chlorinated toluenes			
	15468-32-3	Tridymite, see Crystalline silicon dioxide			
		Triethylarsenate with ELINCS no. 427-700-2	0.1		
	2451-62-9	Triglycidylisocyanurate	0.1		
	137-17-7	2,4,5-Trimethylaniline	0.1		
	21436-97-5	2,4,5,-Trimethylaminiumchloride	0.1		
	4058-22-4	Trisodium-[4-(8-acetylamino-3,6-disulfonato-2-naphthylazo)-4 <sup>ll</sup> -(6-benzoylamino-3-sulfonato-2-naphthylazo)-biphenyl-1,3 <sup>ll</sup> ,1 <sup>lll</sup> -tetraolato-0,0 <sup>ll</sup> ,0 <sup>lll</sup> ]copper (II), see Solaminlichtblau VRGL 133			
	12607-70-4	Trinickelcarbonate tetrahydroxide	0.1	See Nickel, other compounds	See Nickel, other compounds
	12035-72-2	Trinickeldisulfide, see Nickel subsulfide			
	900-95-8	Triphenyltinacetate	0.1	Reg. 7(1)	Application
	76-87-9	Triphenyltinhydroxide	0.1	Reg. 7(1)	Application
	1317-95-9	Tripoli, see Crystalline silicon dioxide			
	52-24-4	Tris(1-aziridinyl)phosphinsulfide, see Thiotepa			
	115-96-8	Tris(2-chloroethyl)phosphate	0.1	Reg. 7(1)	Application
	126-72-7	Tris(2,3-dibromopropyl)phosphate	0.1	Reg. 7(1)	Application
	59653-74-6	1,3,5-Tris[(2 <i>S</i> and 2 <i>R</i> )-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1 <i>H</i> ,3 <i>H</i> ,5 <i>H</i> )-trion			
	2451-62-9	1,3,5-Tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1 <i>H</i> ,3 <i>H</i> ,5 <i>H</i> )-trion, see triglycidylisocyanurate			
	62450-06-0	Trp-P-1	0.1	Reg. 7(1)	Application
	62450-07-1	Trp-P-2	0.1	Reg. 7(1)	Application

UN. no.	CAS.no.	Substance	Content in the material (%)	Special provisions	Supp. remarks and limitations
	72-57-1	Trypan blue (technical goods), see Benzidine-based azo-colorants (Direct Blue 14)	0.1		
	66-75-1	Urethane mustard gas	0.1	Reg. 7(1)	Application
	15545-48-9	Urea <i>N</i> -(3-chloro-4-methylphenyl)- <i>N,N</i> -dimethyl	0.1		
2991*	51-79-6	Urethane	0.1		
	166242-53-1	UVCB condensation product of Tetrakis(hydroxymethyl)phosphoniumchloride, urea and distilled hydrogenated C <sub>16-18</sub> -talgalamine	0.1		
		Vernetzer TMAG	0.1		
	50471-44-8	Vinclozolin	0.1	Reg. 7(1)	Application
1301	108-05-4	Vinylacetate	0.1		
1085	593-60-2	Vinylbromide	0.1	Reg. 7(1)	Application
1086	75-01-4	Vinylchloride	0.1	Reg. 7(1)	Application
	100-40-3	4-Vinylcyclohexene	0.1	Reg. 7(1)	When applying paint products, only regulations 1-4 apply. Other application
	106-87-6	Vinylcyclohexandiepoxide	0.1	Reg. 7(1)	Application
1860*	75-02-5	4-Vinylflouride	0.1	Reg. 7(1)	Application
2810	88-12-0	1-Vinyl-2-pyrrolidon	0.1	Reg. 7(1)	Cleaning agents
			≥1	Reg 7(1)	Other application
		Welding smoke	0.1		
		Wood dust (high concentrations through a longer period of time)			
		Wood dust from deciduous trees			
	13530-65-9	Zinc chromate, see Chromium compounds, hexavalent			

**Part B**

The provisions of the Danish Ministry for the Environment on the classification, packaging and marking of hazardous, chemical substances are laid down in an order that is revised on a continuous basis in accordance with the amendments in Council Directive 67/548/EEC on classification, packaging and labelling of dangerous substances.

Furthermore, the Danish Ministry of the Environment publishes a list of dangerous substances in a statutory order that is also revised on a continuous basis in accordance with the said directive. The reference in part B to the classification rules and to the list of dangerous substances shall apply to the orders hereon in force at any time.

<b>Substance</b>	<b>Content in materials (%)</b>	<b>Special provisions</b>	<b>Supplementary remarks and limitations</b>
Substances that meet the criteria for classification as carcinogenic categories 1 and 2 (Carc 1 and Carc 2) or as mutagens categories 1 and 2 (Mut 1 and Mut 2) in accordance with the rules on classification of the Danish Ministry of the Environment.	0.1		If the substance is already listed in annex 1, part A, with special provisions or with another percentage, these shall be observed.
Substances classified as carcinogenic category 3 (Carc 3) on the list of dangerous substances of the Danish Ministry of the Environment.	1		If the substance is already listed in annex 1, part A, with special provisions or with another percentage, these shall be observed.

## A N N E X 2

### Special provisions on the use of asbestos

#### Application and definitions

**1** In this annex, regulations are laid down on the use and disposal of asbestos or materials containing asbestos, any work with such materials and any other work connected with a risk of exposure to effects from asbestos or materials containing asbestos on board ships.

In addition, regulations are laid down on the import of ships with asbestos as well as the import of equipment containing asbestos for use on board ships.

The regulations do not cover conditions covered by the Working Environment Act (*arbejdsmiljøloven*).

**2** **Asbestos shall mean the following silicates with fibre structure:**

- 1) Actinolite, CAS no. 77536-66-4
- 2) Asbestos, grunerite (amosite), CAS no. 12172-73-5
- 3) Anthophyllite, CAS no. 12001-29-5
- 4) Chrysotile, CAS no. 12001-29-5
- 5) Crocidolite, CAS no. 12001-28-4
- 6) Tremolite, CAS no. 77536-68-6

#### **3** **Prohibition**

**3.1** It shall be prohibited to import, including to buy, ships with asbestos as well as to use or work with asbestos or materials containing asbestos in any form, cf. however subparagraph 3.2.

**3.2** It shall be permitted to carry out dismantling work and repairs and maintenance of ships or parts hereof as well as work on technical aids for which materials containing asbestos have been used.

#### **4** **General provisions**

**4.1** Work shall be organised and performed in a manner which ensures as far as possible that persons at the workplace and nearby are not exposed or cannot be exposed to dust from asbestos or materials containing asbestos. The number of persons exposed or who can be exposed to dust from asbestos or materials containing asbestos shall be kept to a minimum, cf. regulation 6.7.

**4.2** Tools that produce dust containing asbestos may only be used in exceptional circumstances. In such cases, the tools shall be fitted with effective extraction.

**4.3** High-pressure hosing of materials containing asbestos is prohibited.

**5.1** Work with asbestos or materials containing asbestos shall not take place unless air pollution in the inhalation zone is removed, usually using mechanical ventilation.

**5.2** If, in exceptional circumstances it is not possible to remove air pollution pursuant to point 5.1, appropriate breathing apparatus shall be used in accordance with points 11-14.

- 6 On recruitment, employees shall receive detailed information about the health risks related to the work, including the necessity to refrain from smoking. Before the work is carried out, the employees shall be carefully instructed on how to perform the work in a way that does not involve any risk, including information about the technical aids and personal protective equipment to be used, and they shall be informed about the disposal of waste containing asbestos, including packaging. Employees shall also be told about the relevant limit values and about the necessity to make control measurements of the air.
- 7 In the risk assessment pursuant to regulation 4, for each work area in which there is a risk of being exposed to dust from material containing asbestos, there shall be an assessment of how and to what extent employees can be exposed to this dust. This assessment shall be revised in the event of doubts as to its correctness or when there is a material change in working conditions.
- 8 For work which only involves a risk of short-term and low exposures to asbestos and where the impact is clearly less than the limit value for asbestos in the air, points 17.2 and 25-26 shall not apply for the following work:
- 1) Short-term non-continuous repair work in which work is only with asbestos which does not easily crumble.
  - 2) Work to remove undamaged asbestos materials without destroying the materials and in which the asbestos fibres are bound tightly together in a matrix.
  - 3) Work to contain and pack materials containing asbestos which are in good condition.
  - 4) Work to monitor and control the air and collect samples in order to determine whether a given material contains asbestos.
- 9.1 If dusty work with asbestos or materials containing asbestos is carried out, regulations 6.9-6.11 shall apply.
- 9.2 For non-dusty work with asbestos or materials containing asbestos, in the immediate vicinity of the workplace there shall be access to facilities for storage of personal protective equipment which are separate from ordinary clothing as well as hand-basins with hot and cold water. There shall also be access to showers with hot and cold water.
- 9.3 There shall be access to a mess room which must not be used for work purposes.
10. In workplaces where there may be a risk of being exposed to the effects of asbestos or materials containing asbestos, it shall be possible to clean and maintain rooms and equipment effectively. It shall be possible for cleaning and maintenance to be carried out regularly and as often as necessary to prevent the risk of dust pollution during work and after work has ceased.
- 11 **Personal protective equipment, limitations on working hours, shielding of workplace and warning signs etc.**
- 11.1 Where there is a risk of impacts from asbestos dust, cf. point 7, the employees shall use personal protective equipment such as dust-resistant work clothes and headgear and if necessary breathing apparatus if the air pollution is not removed in accordance with point 5.1.

- 11.2** All employees shall be provided with an appropriate filtering breathing apparatus (dust mask), irrespective of whether the air pollution is removed in accordance with point 5.1.
- 12.1** Personal protective equipment shall be changed frequently. Personal protective equipment shall not be carried outside the place at which work with asbestos is taking place. Before work clothes are removed, they shall be cleaned of dust.
- 13.1** When personal protective equipment is used during work, after use this shall be checked and cleaned and stored in a specified place.
- 13.2** When personal protective equipment is discarded it shall be collected in dustproof packing and disposed of as waste containing asbestos, cf. point 23.
- 13.3** Personal protective equipment shall be cleaned separate from other clothes. When being carried to the laundry, they shall be packaged in dustproof packing clearly marked that the content may release dust containing asbestos.
- 14.1** If the use of personal protective equipment leads to physical or mental strains as a consequence of the nature of the work, the temperature or the like, engagement in the work in question shall be limited, for example by means of special breaks during the work.
- 14.2** Work with an air-supplied breathing apparatus may not exceed 6 hours' duration per day for each individual employee.
- 14.3** During dismantling work, the work with an air-supplied breathing apparatus may not exceed 4 hours' duration per day. There shall be sufficient breaks, at least after 2 hours' continuous work.
- 14.4** Work with a filtering breathing apparatus (dust mask) may not exceed 3 hours' duration per day for each individual employee.
- 14.5** If each individual employee carries out work of a different nature within the same working day, cf. points 14.2-14.4, the time during which the employee has to work with the breathing apparatus described shall be reduced proportionally.
- 15.1** At the workplace, other persons than those carrying out the work with asbestos or materials containing asbestos or necessary work in connection with this may not be so close to the work that they are exposed to impacts harmful to health.
- 15.2** In connection with dismantling work where asbestos occurs to a considerable degree, the relevant workplace shall be shielded from the surroundings by means of a tent or the like, which is impenetrable to dust. Access to the tent shall be via an air lock and the ventilation of the tent shall be arranged so that a negative pressure prevents the spreading of dust to other areas.
- 15.3** The provisions of regulation 6, subparagraphs 5-7 shall apply to work with asbestos. The warning signs posted shall read: "WARNING. ASBESTOS WORK AREA. UNAUTHORIZED PERSONS KEEP OUT." See chapter VIII on safety signs and other forms of signalling.
- 16** **Dismantling repair and maintenance work. Notification.**

This part shall apply to dismantling work as well as to work with the repair and maintenance of ships or parts hereof. The regulations of this part shall cover cleaning in connection with these types of work.

- 17.1** The Danish Maritime Authority shall be informed of the dismantling of materials containing asbestos in ships where this material has been used as insulation against heat, cold, noise, moisture and fire before the work is initiated. This obligation rests with employers, shipowners\* and masters of ships.
- 17.2** Other work covered by this Executive Order and which the employer deems not only to involve short-term and low exposures to asbestos, cf. point 8, shall also be notified to the Danish Maritime Authority.
- 17.3** Notification to the Danish Maritime Authority shall be electronically or on paper and shall include the following information:
- 1) The name and address of the shipping company.
  - 2) The name of the ship, its call sign and official number.
  - 3) The time when it is expected that the work will be started and completed.
  - 4) Description of the extent of the work.
  - 5) Description of the working methods used.
  - 6) Number of persons engaged in the work, including information about their training in the dismantling of materials containing asbestos.
  - 7) Short description of safety measures, including personal protective equipment.
  - 8) Description of cleaning work, including who carries out this work.
  - 9) Indication of the type of asbestos (if known).
  - 10) Date and signature of the shipping company and the safety organisation, respectively. If it is not necessary to set up such a safety organisation on the ship, the notification shall be signed by a representative of the employees.
- 17.4** The work shall again be notified to the Danish Maritime Authority when changes in the work conditions could lead to significant increases in impacts from dust from asbestos or materials containing asbestos.
- 18.1** Prior to commencement of work to dismantle or remove asbestos, at the request of the Danish Maritime Authority, the shipping company shall be in a position to prove that the undertaking is qualified to carry out such work, cf. the requirements for training etc. of employees in points 19.1 and 19.2.
- 18.2** Prior to commencement of dismantling or maintenance work, the shipowner or master shall obtain the necessary information on this in order to confirm that asbestos is present in the materials in question. If there is the least suspicion of the presence of asbestos in a material, the work shall be organised and performed in accordance with the regulations of this annex.
- 18.3** Before dismantling work is initiated, a work plan shall be drawn up that can ensure that the work, including the cleaning, is performed in accordance with the regulations of this technical regulation.

**18.4** Furthermore, the plan shall indicate what measures it is necessary to take to ensure the health and safety of the employees on board. It shall in particular be indicated how asbestos or materials containing asbestos shall be removed to a reasonable extent before the dismantling technique is initiated and what personal protective equipment shall be available to the employees.

## **19 Training**

**19.1** Persons carrying out dismantling work mentioned in point 17.1 shall have completed a special training course approved by the Danish Maritime Authority.

**19.2** Employees carrying out either work outdoors as mentioned in point 17.1 or other work than that mentioned in 17.1 and who are or can be exposed to impacts from dust from asbestos shall complete relevant training and instruction courses with regard to prevention and health and safety, in particular with regard to:

- 1) the properties and effects of asbestos for health, including the synergistic effects of smoking,
- 2) the types of products or materials which could contain asbestos,
- 3) activities which could lead to exposure to asbestos and the significance of preventive control measures to reduce the exposure,
- 4) safe work methods, control and personal protective equipment,
- 5) the purpose and the correct choice of breathing equipment as well as the limitations of this and the correct use,
- 6) emergency measures,
- 7) procedures for decontamination,
- 8) disposal of waste, and
- 9) requirements for health checks.

**19.3** Education and training pursuant to point 19.2 shall be offered regularly by the employer and without any cost to the employees.

## **20 Measurement**

**20.1** Regulation 6, subparagraphs 13 and 14 shall apply for work with asbestos. Depending on the special risk assessment pursuant to point 7 and in order to ensure compliance with the limit value for asbestos, measurements for asbestos dust shall be carried out regularly. Sample taking shall comply with the following requirements:

- 1) Sample taking shall be carried out by personnel with the necessary qualifications. The subsequent analysis of the samples shall be carried out by accredited laboratories.
- 2) Sample taking shall be with such a duration that an impact can be ascertained which, after being weighted for time either by measurement or by calculation, is representative of a reference period of eight hours (one shift).

3) Counting of fibres shall as far as possible be carried out using a phase-contrast microscope (PCM) in accordance with the methods recommended by the World Health Organisation in 1997 (ISBN 92 4 154496 1), or using another method which gives corresponding results. For measurement of asbestos in air, only fibres longer than five micrometres and thinner than three micrometres shall be taken into consideration as well as where the ratio between length/thickness is greater than 3:1.

- 20.2** Performance of measurements shall be organised after consulting the safety organisation or, if it is not necessary to set up such an organisation on the ship, after consulting another representative of the employees.
- 20.3** The shipowner, or in his place the master, shall deliver a copy of the sample result etc. to the safety organisation or, if it is not necessary to set up such an organisation on the ship, another representative of the employees. The shipowner, or in his place the master, shall assess the results in collaboration with the safety organisation or the employee representative.
- 21.1** If the asbestos-dust measurements show that the relevant limit values are being exceeded, the cause of this shall be ascertained. As quickly as possible measures shall be introduced to remediate the situation and a new asbestos measurement shall be carried out to check the effectiveness of the measures.
- 21.2** Work in the effected area may only continue if appropriate measures to protect the persons in question are taken.
- 22** Employees and the safety organisation or, if it is not necessary to set up such an organisation on the ship, other representatives of the employees shall be notified, if the limit value for asbestos is exceeded. The shipowner or in his place the master, shall also provide information about the cause of this. The shipowner or in his place the master shall consult the employees or their representatives about the measures to be taken in this context. If the situation is urgent, the shipowner or in his place the master may inform them of the measures which have been taken.

### **Special regulations on waste containing asbestos**

- 23** Asbestos dust as well as dusty waste, filters and the like containing asbestos shall be stored and disposed of in wet condition in closed, tight packaging marked with information that it contains asbestos. Waste containing asbestos that might emit dust shall be wet and covered during transport to prevent the escape of dust to the surroundings.
- 24** Disposal shall also be in accordance with the relevant regulations on waste from the Ministry of the Environment.
- 25** **Medical examinations and registration of persons exposed to asbestos**
- 25.1** Regulation 6, subparagraphs 15-19 shall apply for work with asbestos or materials containing asbestos. Medical examinations shall be performed no less than once every three years in accordance with the following practical guidelines which may stipulate that exposure to free asbestos fibres may cause the following diseases: asbestosis, mesothelioma, cancer of the lung, stomach or intestine.

- 25.2** The medical practitioner shall have knowledge of the conditions and particular circumstances under which the individual employee has been exposed to asbestos.
- 25.3** Medical examinations of employees shall be performed in accordance with occupational medicine principles and practice and should, as a minimum include the following:
- 1) preparation of records regarding the health of the patient,
  - 2) a personal interview,
  - 3) routine clinical examination, including in particular the thorax,
  - 4) examination of respiration (spirometer and flow-volume curve).
- The medical practitioner shall decide on further examinations such as examinations of the cytology of the sputum, an X-ray of the thorax or tomography, on the basis of the latest knowledge about occupational medicine.
- 26** The updated list, cf. regulation 6, subparagraph 15 shall state the nature and duration of the individual's work as well as the asbestos impacts associated with this. The Danish Maritime Authority and the examining medical practitioner shall have access to the updated list. The employees shall have access to the information entered in the records relating to their own person. The employees and their representatives within the undertaking or installation shall have access to the collective and anonymous information in the records.
- 27** **Transitional provisions**
- 27.1** Asbestos and materials containing asbestos which could legally be imported and used prior to 1 January 2005 may continue to be used until the material has reached the end of its useful life or is disposed of.

## A N N E X 3

### Provisions on marking

These provisions shall apply to the marking of waste (regulation 2, subparagraph 6, used personal protective equipment (regulation 3, subparagraph 11, no. 3) and special substances (regulation 6, subparagraph 20).

#### **1. The obligation to mark substances and label design**

To the extent that the substances or materials have not already been marked for carcinogenic risk in accordance with the regulations on marking issued by the Danish Ministry of the Environment, the packaging of the substances/materials in question shall be furnished with a label with the following text: "Contains a substance covered by Danish legislation on occupational health as regards carcinogenic risk".

- a) The label shall have a height of at least 2.5 cm and a width of at least 5 cm.
- b) The width of the label shall, as a minimum, be twice the height.
- c) The letters shall be black on a yellow background.

#### **2. The placing of the label**

The label shall be placed in a visible place on each of the units that contain the substance or material unless the marking cannot be made in a reasonable way, for example due to limited dimensions, general unsuitability or certain technical difficulties.