
STATUTORY INSTRUMENTS

2007 No. 3100

MERCHANT SHIPPING

The Merchant Shipping and Fishing Vessels (Health and Safety at Work) (Carcinogens and Mutagens) Regulations 2007

<i>Made</i>	- - - -	<i>29th October 2007</i>
<i>Laid before Parliament</i>		<i>1st November 2007</i>
<i>Coming into force</i>	- -	<i>1st March 2008</i>

The Secretary of State makes the following Regulations in exercise of the powers conferred upon her by section 2(2) of the European Communities Act 1972 ^{F1} and sections 85(1), (3), (5), (6) and (7) and 86(1) of the Merchant Shipping Act 1995 ^{F2}.

The Secretary of State is a Minister designated ^{F3} for the purpose of section 2(2) of the European Communities Act 1972 in relation to measures relating to the safety of ships, and the health and safety of persons in them.

In so far as the following Regulations are made in the exercise of powers conferred by section 85 of the Merchant Shipping Act 1995, the Secretary of State has in pursuance of section 86(4) of that Act consulted persons in the United Kingdom that she considered would be affected by her proposal to make these Regulations.

F1 1972 c. 68.

F2 1995 c. 21; section 85 was amended by the Merchant Shipping and Maritime Security Act 1997 (c. 28) section 8, Schedule 7, Part I and by the British Overseas Territories Act 2002 (c. 8), section 2(3).

F3 1993/595.

Citation and commencement

1. These Regulations may be cited as the Merchant Shipping and Fishing Vessels (Health and Safety at Work) (Carcinogens And Mutagens) Regulations 2007 and shall come into force on 1st March 2008.

Interpretation

2.—(1) In these Regulations—
“the Act” means the Merchant Shipping Act 1995;
[^{F4}“carcinogen” means—

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- (a) a substance or mixture which meets the criteria for classification as a category 1A or 1B carcinogen set out in Annex I to the CLP Regulation whether or not the substance or mixture would be required to be classified under that Regulation; or
- (b) a substance or mixture which is—
 - (i) referred to in Schedule 1; or
 - (ii) released by a process referred to in Schedule 1 and is a substance hazardous to health;]

[^{F5}“CLP Regulation” means Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No 1907/2006, of which Articles 6(5), 11(3), 12, 14, 18(3)(b), 23, 25 to 29, 35(2) second and third sub-paragraphs and Annexes I to VII are to be read as amended from time to time;]

“employer” means a person by whom a worker is employed on a ship under a contract of employment;

“exposure” means exposure to carcinogens or mutagens or to both;

“the General Duties Regulations” means the Merchant Shipping and Fishing Vessels (Health and Safety at Work) Regulations 1997 ^{F6};

“health and safety” means the health and safety of persons whilst on board, or boarding or leaving, a ship;

[^{F7}“mutagen” means a substance or mixture which meets the criteria for classification as a category 1A or 1B germ cell mutagen set out in Annex I to the CLP Regulation, whether or not the substance or mixture would be required to be classified under that Regulation;]

“preparation” means a mixture or solution of two or more substances;

“regulation 4 assessment” has the meaning given by regulation 4(2);

“representative” in relation to workers means any person lawfully elected, chosen or designated to represent the workers in regard to issues about the safety and health protection of workers at work;

[^{F8}“ship” includes hovercraft;]

“substance” means any natural or artificial substance whether in solid or in liquid form or in the form of a gas or vapour and includes micro-organisms;

“trainees and apprentices” does not include persons who are training in a sail training vessel;

“United Kingdom ship” means a ship which is—

- (a) a United Kingdom ship within the meaning of s 85(2) of the Act;
- (b) a Government ship within the meaning of section 308(4) of the Act; or
- (c) a hovercraft registered under the Hovercraft Act 1968 ^{F9}; and

“United Kingdom waters” means the sea or other waters within the seaward limits of the territorial sea of the United Kingdom.

(2) In these Regulations, “worker” means a person employed under a contract of employment, whether express or implied, and if express whether oral or in writing, to work on activities to which these Regulations apply and includes a trainee or apprentice so employed except a trainee to whom paragraph (3) applies.

(3) This paragraph applies to a trainee training in a sailing vessel which is—

- (a) being used either—

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- (i) to provide instruction in the principles of responsibility, resourcefulness, loyalty and team endeavour and to advance education in the art of seamanship; or
 - (ii) to provide instruction in navigation and seamanship for yachtsmen; and
- (b) is being operated under one of the following codes—
- (i) the Large Commercial Yacht Code as set out in Merchant Shipping Notice No. 1792(M), issued by the Maritime and Coastguard Agency, an executive agency of the Department for Transport;
 - (ii) the Code of Practice for the Safety of Small Commercial Sailing Vessels ^{F10};
 - (iii) the Code of Practice for the Safety of Small Commercial Motor Vessels ^{F11}; or
 - (iv) the Code of Practice for the Safety of Small Vessels in Commercial Use for Sport or Pleasure Operating from a Nominated Departure Point ^{F12}.

(4) In paragraph (3) each reference to a Code includes a reference to any document containing an amendment or replacement of that Code which is considered by the Secretary of State to be relevant from time to time.

[^{F13}(5) In the application of these Regulations to a hovercraft, a reference to the master of a ship includes a reference to the captain of that hovercraft.]

- F4** Word in [reg. 2\(1\)](#) substituted (1.6.2015) by [The Classification, Labelling and Packaging of Chemicals \(Amendments to Secondary Legislation\) Regulations 2015 \(S.I. 2015/21\)](#), regs. 1(3), **16(2)(a)**
- F5** Words in [reg. 2\(1\)](#) inserted (1.6.2015) by [The Classification, Labelling and Packaging of Chemicals \(Amendments to Secondary Legislation\) Regulations 2015 \(S.I. 2015/21\)](#), regs. 1(3), **16(2)(b)**
- F6** 1997/2962, amended by [S.I. 1998/2411](#), 2001/54.
- F7** Words in [reg. 2\(1\)](#) substituted (1.6.2015) by [The Classification, Labelling and Packaging of Chemicals \(Amendments to Secondary Legislation\) Regulations 2015 \(S.I. 2015/21\)](#), regs. 1(3), **16(2)(c)**
- F8** Words in [reg. 2\(1\)](#) inserted (26.4.2010) by [The Merchant Shipping and Fishing Vessels \(Health and Safety at Work\) \(Miscellaneous Amendments\) Regulations 2010 \(S.I. 2010/1110\)](#), regs. 1(3), **4(a)**
- F9** 1968 c. 59.
- F10** Published by the Stationery Office in 1993 (ISBN 0-11-551184-9).
- F11** Published by the Stationery Office in 1993 (ISBN 0-11-551185-7).
- F12** Published by the Stationery Office in 1999 (ISBN 0-11-551812-6).
- F13** [Reg. 2\(5\)](#) inserted (26.4.2010) by [The Merchant Shipping and Fishing Vessels \(Health and Safety at Work\) \(Miscellaneous Amendments\) Regulations 2010 \(S.I. 2010/1110\)](#), regs. 1(3), **4(b)**

Application

3.—(1) Without prejudice to regulation 5 of the General Duties Regulations and subject to paragraphs (2) to (6), these Regulations apply to activities on United Kingdom ships in which workers are or are likely to be exposed to carcinogens or mutagens as a result of their work.

(2) Where—

- (a) a ship is being used in the course of public service activities or activities for the purpose of civil protection services; and
- (b) characteristics peculiar to those activities inevitably conflict with a provision of these Regulations,

that provision does not apply in relation to that ship to the extent of that conflict.

(3) To the extent that a provision of these Regulations does not apply in relation to a ship because of paragraph (2) there is in relation to that ship a duty on the employer to ensure, so far as reasonably practicable, the health and safety of the workers engaged in that activity.

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(4) These Regulations do not apply—

- (a) to workers exposed only to radiation covered by the Treaty establishing the European Atomic Energy Community; or
- (b) to, or in relation to the activities of, workers to which the Control of Substances Hazardous to Health Regulations 2002 ^{F14} or the Control of Substances Hazardous to Health Regulations (Northern Ireland) 2003 ^{F15} apply.

(5) The provisions of the General Duties Regulations continue to apply to activities to which these Regulations apply; where these Regulations contain more stringent or specific provisions then such provisions apply.

(6) This regulation (other than paragraph (1)) and regulations 21 and 23 apply in relation to ships which are not United Kingdom ships, when they are in United Kingdom waters.

(7) In paragraph (2)—

“civil protection services” includes the fire and rescue and ambulance services and search and rescue services provided by any other person;

“public service activities” includes the activities of the armed forces, HM Coastguard, HM Revenue and Customs, immigration officers, police, prison officers and the security and intelligence services.

F14 [S.I. 2002/2677](#), amended by [S.I. 2004/3386](#); there are other amending instruments but none is relevant.

F15 (NI) 2003 No 34, amended by S.R. (NI) 2003 No 288, 2005 No 165.

Assessment of health risks

4.—(1) In the case of any activity likely to involve a risk of exposure, the employer shall—

- (a) in carrying out the risk assessment required by regulation 7 of the General Duties Regulations—
 - (i) determine the nature, degree and duration of workers' exposure in order to make it possible to assess any risk to the workers' health or safety and to lay down the measures to be taken;
 - (ii) in assessing the risk of such exposure take account of all routes of exposure, such as absorption into or through the skin; and
 - (iii) give particular attention to any effects concerning the health and safety of workers at particular risk and take account of the desirability of not employing such workers in areas where they may come into contact with carcinogens or mutagens;
- (b) renew the assessment regularly and in any event when any change occurs in the conditions which may affect workers' exposure; and
- (c) supply the Secretary of State, if she so requests, with the information used for making the assessment.

(2) An assessment carried out in accordance with this regulation, whether for the first time or by way of renewal, is in these Regulations called a regulation 4 assessment.

Reduction and replacement of carcinogens and mutagens

5.—(1) The employer shall reduce the use of carcinogens and mutagens on United Kingdom ships where workers are employed to work, in particular by replacing them, in so far as it is technically possible, by substances, preparations or processes which, under their conditions of use, are not dangerous or are less dangerous to workers' health or safety.

(2) The employer shall, upon request, submit the findings of his investigations to the Secretary of State.

Prevention and reduction of exposure

6.—(1) Where the results of a regulation 4 assessment reveal a risk to workers' health or safety from their exposure, the employer shall take the steps required by this regulation to prevent that exposure.

(2) The employer shall replace the carcinogen or mutagen as mentioned in regulation 5(1).

(3) Where that is not possible the employer shall ensure that the carcinogen or mutagen is, so far as technically possible, manufactured or used in a closed system.

(4) Where a closed system is not technically possible, the employer shall ensure that the level of exposure of workers is reduced to as low a level as is technically possible.

(5) In no circumstances shall exposure exceed the limit values set out in the table in Schedule 2.

(6) Wherever a carcinogen or mutagen is used, the employer shall, in addition to the measures required by the preceding provisions of this regulation, take all the measures specified in Schedule 3.

(7) In this regulation and in Schedule 2 “limit value” means, unless otherwise specified, the limit of the time-weighted average of the concentration for a carcinogen or mutagen in the air within the breathing zone of a worker in relation to a specified reference period as set out in that Schedule.

Information for the Secretary of State

7. Where a regulation 4 assessment reveals a risk to workers' health or safety, the employer who carried out the assessment shall, if so requested by the Secretary of State, make available to the Secretary of State appropriate information on—

- (a) the activities or industrial processes assessed, including the reasons for using carcinogens or mutagens;
- (b) the quantities of substances or preparations manufactured or used which contain carcinogens or mutagens;
- (c) the number of workers exposed;
- (d) the preventive measures taken;
- (e) the type of protective equipment used;
- (f) the nature and degree of exposure;
- (g) the cases of replacement.

Unforeseen exposure

8.—(1) If an unforeseeable event or an accident likely to result in an abnormal exposure of workers occurs, the employer shall—

- (a) inform the workers of the occurrence; and
- (b) until the situation has been restored to normal and the causes of the abnormal exposure eliminated, take the following precautions.

(2) The precautions are that—

- (a) only those workers essential to the carrying out of repairs and other necessary works are to be permitted to work in the affected area;
- (b) the workers concerned must be provided with, and required to wear, protective clothing and individual respiratory protection equipment;

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- (c) the exposure must not be permanent and must be limited to the minimum time strictly necessary for each worker; and
- (d) unprotected workers must not be allowed to work in the affected area.

Foreseeable exposure

9.—(1) This regulation applies to activities (“relevant activities”), such as maintenance, in respect of which—

- (a) it is foreseeable that there is potential for a significant increase in the exposure of workers; and
- (b) all scope for further technical preventive measures for limiting exposure has been exhausted.

(2) The employer shall, subject to the following provisions of this regulation, determine the measures necessary to reduce the workers' exposure to the minimum possible and to ensure their protection while they are engaged in relevant activities.

(3) Without prejudice to his responsibility, the employer shall consult the workers engaged in relevant activities in his undertaking or establishment, or both, before making a determination under paragraph (2).

(4) The employer shall in particular—

- (a) ensure that the exposure of workers engaged in relevant activities is not permanent and is kept to the strict minimum of time necessary for each worker;
- (b) provide workers engaged in relevant activities with protective clothing and individual respiratory equipment which they must be required to wear as long as the abnormal exposure persists; and
- (c) take appropriate measures to ensure that the areas in which relevant activities take place are clearly demarcated and indicated or that unauthorised persons are prevented by other means from entering those areas.

(5) This regulation is without prejudice to the provisions of the Merchant Shipping and Fishing Vessels (Personal Protective Equipment) Regulations 1999 ^{F16}.

F16 1999/2205.

Access to risk areas

10.—(1) The employer shall take appropriate measures to ensure that risk areas are accessible only to workers who are required to enter them by reason of their work or duties.

(2) In paragraph (1) “risk areas” means the areas in which any activity takes place which has been shown by a regulation 4 assessment to involve a risk to workers' health and safety.

Hygiene and individual protection

11. The employer shall take appropriate measures to ensure that, in relation to any activity involving a risk of contamination by carcinogens or mutagens,—

- (a) workers do not eat, drink or smoke in working areas where there is a risk of contamination by carcinogens or mutagens;
- (b) without prejudice to regulation 9, workers are provided with appropriate special clothing;
- (c) separate storage places are provided for working or protective clothing and for other clothes;

- (d) workers are provided with appropriate and adequate washing and toilet facilities;
- (e) protective equipment is properly stored in a well defined place and is checked and cleaned if possible before, and in any case after, each use; and
- (f) defective equipment is properly repaired or replaced before further use.

Information and training of workers

12.—(1) The employer shall take appropriate measures to ensure that workers or their representatives, or both, receive sufficient and appropriate training, on the basis of all available information, in particular in the form of information and instructions concerning—

- (a) potential risks to health, including the additional risks due to tobacco consumption;
- (b) precautions to prevent exposure;
- (c) the requirements of hygiene;
- (d) the wearing and use of protective clothing; and
- (e) the steps to be taken by workers, including rescue workers, in the case of incidents and to prevent incidents.

(2) Training provided under paragraph (1) shall be—

- (a) adapted to take account of new or changed risks; and
- (b) repeated periodically if necessary.

(3) The employer shall, in relation to all installations, containers and packages containing carcinogens or mutagens—

- (a) tell workers where they are;
- (b) ensure that they are clearly and legibly labelled; and
- (c) ensure that clearly visible warning and hazard signs are displayed on them.

(4) The employer shall take appropriate measures to ensure that—

- (a) without prejudice to the duties imposed on the employer by these Regulations (in particular by regulation 9) workers or their representatives can verify that these Regulations are being applied or can be involved in their application, in particular with regard to—
 - (i) the consequences for workers' safety and health of the selection, wearing and use of protective clothing and equipment; and
 - (ii) the measures to be determined by the employer under regulation 9;
- (b) workers or their representatives are informed as quickly as possible of abnormal exposures, including those referred to in regulation 9, of the causes thereof and the corrective measures to be taken;
- (c) an up-to-date list is kept of the workers engaged in activities as respects which a regulation 4 assessment has revealed a risk to the health or safety of workers, including (if the information is available) the exposure to which they have been subjected;
- (d) the doctor or the Secretary of State as well as any other person with responsibility for the health and safety of workers at work has access to that list;
- (e) each worker has access to the information on the list that relates to him personally; and
- (f) workers or their representatives have access to anonymous collective information.

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Consultation with and participation of workers

13. The employer shall consult workers or their representatives about matters covered by these Regulations in accordance with regulation 20 of the General Duties Regulations.

Health surveillance

14.—(1) The employer shall ensure that there are arrangements whereby workers for whom a regulation 4 assessment reveals a risk to health or safety are kept under health surveillance.

(2) In particular a worker shall be able to undergo, if appropriate, relevant health surveillance before exposure and at regular intervals thereafter and the arrangements shall be such that it is directly possible to implement individual and occupational hygiene measures.

(3) If a worker is found to be suffering from an abnormality which is suspected to be the result of exposure to carcinogens or mutagens, the doctor or body responsible for the health surveillance of workers may require other workers who have been similarly exposed to undergo health surveillance and, in that event, a further regulation 4 assessment shall be undertaken.

(4) In cases where health surveillance is carried out, an individual medical record shall be kept and the doctor or body responsible for health surveillance shall propose any protective or preventive measures to be taken in respect of any individual workers.

[^{F17}(4A) Where the doctor or body responsible for the health surveillance of a worker records in that worker's individual medical record, kept pursuant to paragraph (4), that the health surveillance of the worker should continue after exposure has ended, the worker's employer must ensure that, while the worker is employed by the employer, the health surveillance of that worker continues for as long as recommended by the doctor or body.

(4B) The worker's employer ceases to be under an obligation to ensure that health surveillance continues for as long as recommended by the doctor or body when a doctor or body responsible for the health surveillance of the worker records in the worker's individual medical record that this is no longer recommended.]

(5) Information and advice shall be given to workers regarding any health surveillance which they may undergo following the end of exposure.

(6) Workers must be given access to the results of health surveillance which concern them.

(7) Workers or the employer may request a review of the results of health surveillance.

(8) The doctor or body undertaking health surveillance shall have regard to the practical recommendations for the health surveillance of workers set out in Schedule 4.

(9) All cases of cancer identified as resulting from occupational exposure to a carcinogen or mutagen shall be notified to the Secretary of State.

F17 Reg. 14(4A)(4B) inserted (2.3.2020) by [The Carcinogens and Mutagens \(Miscellaneous Amendments\) Regulations 2020 \(S.I. 2020/40\)](#), regs. 1, **3(2)**

Record-keeping

15.—(1) The employer shall keep—

- (a) the list referred to in regulation 12(4)(c); and
- (b) the medical record referred to in regulation 14(4),

for at least 40 years following the end of exposure.

(2) If the employer ceases to trade, he shall make the records referred to in paragraph (1)(a) and (b) available to the Secretary of State.

Persons on whom duties are imposed

16.—(1) Where a person on whom a duty is imposed by any of the preceding provisions of these Regulations does not have control of the matter to which that provision relates because that person does not have responsibility for the operation of the ship, that duty also extends to any other person who has control of that matter.

(2) It is the duty of every worker performing activities to which these Regulations apply—

- (a) to make full and proper use of all clothing and equipment with which he has been provided by the employer in pursuance of these Regulations; and
- (b) to give effect to all instruction and training with which he has been provided under regulation 12.

Offences and penalties

17.—(1) A person who acts in contravention of, or fails to comply with, regulation 4, 5, 6, 9 or 14 is guilty of an offence and liable—

- (a) on summary conviction to a fine not exceeding the statutory maximum; or
- (b) on conviction on indictment to imprisonment for a term not exceeding two years or a fine, (or both).

(2) A person who acts in contravention of, or fails to comply with, regulation 8, 10 or 13 is guilty of an offence and liable on summary conviction to a fine not exceeding level 4 on the standard scale.

(3) A person who acts in contravention of, or fails to comply with, regulation 7, 11, 12, 15 or 25 is guilty of an offence and liable on summary conviction to a fine not exceeding level 3 on the standard scale.

(4) A worker who fails to comply with regulation 16(2) is guilty of an offence and liable on summary conviction to a fine not exceeding level 2 on the standard scale.

(5) Section 146(1) of the Act (enforcement of fines) applies to any fine imposed for an offence under paragraphs (1) to (3) of this regulation, as if the reference to proceedings against the owner or master of a ship for an offence under Chapter 2 were a reference to proceedings against any person for an offence under those paragraphs.

Offences by body corporate

18.—(1) Where a body corporate is guilty of an offence under these Regulations and that offence is proved to have been committed with the consent or connivance of, or to be attributable to any neglect on the part of, any director, manager, secretary or other similar officer of the body corporate or a person who was purporting to act in any such capacity, he as well as the body corporate is guilty of an offence and liable to be proceeded against and punished accordingly.

(2) Where the affairs of a body corporate are managed by its members, paragraph (1) applies in relation to the acts and defaults of a member in connection with his functions of management as if he were a director of the body corporate.

(3) Where an offence under these Regulations committed by a Scottish partnership is proved to have been committed with the consent or connivance of, or to be attributable to any neglect on the part of, a partner, that partner as well as the partnership is guilty of that offence and liable to be proceeded against and punished accordingly.

Onus of proving what is reasonably practicable

19. In any proceedings for an offence under any of these Regulations consisting of a failure to comply with a duty or requirement to do something so far as is reasonably practicable, it shall be

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for the defendant to prove that it was not reasonably practicable to do more than was in fact done to satisfy the duty or requirement.

Detention of a United Kingdom ship

20.—(1) Where a surveyor of ships is satisfied that there is or has been a failure by an employer or other person referred to in regulation 16(1) to comply in relation to any United Kingdom ship with the preceding requirements of these Regulations, that ship is liable to be detained until a surveyor of ships is satisfied that those requirements are complied with.

(2) A surveyor of ships may permit a ship which is liable to be detained under paragraph (1) to proceed to sea for the purposes of proceeding to the nearest appropriate repair yard.

(3) A ship shall not be delayed or detained unreasonably under this regulation.

(4) Where a ship is detained because in relation to it there has been a failure to comply with the requirements of these Regulations, and that failure has ceased, a person having power to detain the ship shall, at the request of the owner or master, immediately release the ship—

- (a) if no proceedings for an offence arising from the failure in question are instituted within the period of seven days beginning with the day on which the ship is detained;
- (b) if proceedings for an offence arising from the failure in question, having been instituted within that period, are concluded without the employer or other person having control of the matter in question being convicted;
- (c) if either—
 - (i) the sum of £30,000 is paid to the Secretary of State by way of security, or
 - (ii) security which, in the opinion of the Secretary of State, is satisfactory and is for an amount not less than £30,000 is given to the Secretary of State,
 by or on behalf of the employer or other person having control of the matter in question;
- (d) where the employer or other person having control of the matter in question is convicted of an offence arising from the failure in question, if any costs or expenses ordered to be paid by him, and any fine imposed on him, have been paid; or
- (e) the release is ordered by a court or tribunal referred to in article 292 of the United Nations Convention on the Law of the Sea 1982^{F18}, and any bond or other financial security ordered by such court or tribunal is posted.

(5) The Secretary of State shall repay any sum paid in pursuance of paragraph (4)(c) or release any security so given—

- (a) if no proceedings for an offence arising from the failure in question are instituted within the period of seven days beginning with the day on which the sum is paid; or
- (b) if proceedings for an offence arising from the failure in question, having been instituted within that period, are concluded without the employer or other person having control of the matter in question being convicted.

(6) Where a sum has been paid, or security has been given, by any person in pursuance of paragraph (4)(c) and the employer or other person having control of the matter in question is convicted of an offence arising from the failure in question, the sum so paid or the amount made available under the security shall be applied as follows—

- (a) first in payment of any costs or expenses ordered by the court to be paid by the employer or other person having control of the matter in question; and
- (b) next in payment of any fine imposed by the court,

and any balance shall be repaid to the first-mentioned person.

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(7) Section 145 of the Act (interpretation of section 144) applies for the purposes of paragraphs (4) to (6) as if—

- (a) references to the master or owner of the ship were references to the employer or other person having control of the matter in question; and
- (b) references to an offence under section 131 were references to an offence arising from the failure in question.

F18 Cmnd. 8941.

Inspection and other measures in respect of ships registered outside the United Kingdom

21.—(1) When a ship which is not a United Kingdom ship is in United Kingdom waters, a relevant inspector may inspect that ship to ascertain whether the standards required in relation to United Kingdom ships by these Regulations are met in relation to that ship.

(2) Where a surveyor of ships is satisfied that the standards required in relation to United Kingdom ships by these Regulations are not met in relation to a ship which is not a United Kingdom ship but is in United Kingdom waters, that surveyor of ships may—

- (a) send a report to the government of the State whose flag the ship is entitled to fly, and a copy thereof to the Director General of the International Labour Office; and
- (b) where conditions on board are clearly hazardous to health or safety, take such measures as are necessary to ensure those conditions are rectified.

(3) A ship to which paragraph (2)(b) applies is liable to be detained until a surveyor of ships is satisfied that those conditions are rectified.

(4) A surveyor of ships may permit a ship which is liable to be detained under paragraph (3) to proceed to sea for the purposes of proceeding to the nearest appropriate repair yard.

(5) If any of the measures specified in paragraph (b) or (3) are taken, the surveyor of ships shall immediately notify the nearest maritime, consular or diplomatic representative of the State whose flag the ship is entitled to fly.

(6) A ship shall not in the exercise of the power under this regulation be delayed or detained unreasonably.

(7) In paragraph (1), “relevant inspector” means a person mentioned in paragraph (a), (b) or (c) of section 258(1) of the Act ^{F19}.

F19 Section 258(1) was amended by the [Merchant Shipping and Maritime Security Act 1997 \(c.28\)](#), [sections 9](#) and 29(2), Schedule 1 paragraph 4 and Schedule 9 Part I.

Application of powers of inspectors in relation to Government ships

22. Sections 258 to 266 of the Act apply to these Regulations as if they were for all purposes made under section 85 of the Act and accordingly those sections apply in relation to Government ships.

Enforcement of detention

23.—(1) Section 284 of the Act applies where a ship is liable to be detained under these Regulations as if—

- (a) references to detention of a ship under the Act were references to detention of the ship in question under these Regulations; and
- (b) subsection (7) were omitted.

Changes to legislation: *The Merchant Shipping and Fishing Vessels (Health and Safety at Work) (Carcinogens and Mutagens) Regulations 2007 is up to date with all changes known to be in force on or before 18 May 2020. There are changes that may be brought into force at a future date. Changes that have been made appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes*

(2) Where a ship is liable to be detained under these Regulations the person detaining the ship shall serve on the master of the ship a detention notice which shall—

- (a) state that a surveyor of ships is of the opinion that in relation to that ship there is a failure to comply with the requirements of these Regulations;
- (b) specify the matters which, in the opinion of the surveyor of ships, have the effect that in relation to that ship those requirements are not met; and
- (c) require the terms of the notice to be complied with until the ship is released by any person mentioned in section 284(1) of the Act.

Right of appeal and compensation

24. Regulations 11 and 12 (right of appeal and compensation) of the Merchant Shipping (Port State Control) Regulations 1995^{F20} (which by virtue of regulation 19 of those Regulations apply in relation to the exercise of powers of detention contained in safety regulations) apply in relation to a detention notice served on a Government ship under these Regulations as if these Regulations were for all purposes made under section 85 of the Act.

F20 [S.I. 1995/3128](#), as amended by [S.I. 2003/1636](#) and other amendments which are not relevant to these Regulations.

Prohibition on levy

25. No charge in respect of anything done or provided in pursuance of any specific requirement of these Regulations shall be levied or permitted to be levied on any worker.

[^{F21}Review

26.—(1) The Secretary of State must from time to time—

- (a) carry out a review of the regulatory provision contained in these Regulations, and
- (b) publish a report setting out the conclusions of the review.

(2) The first report must be published before 2nd March 2025.

(3) Subsequent reports must be published at intervals not exceeding 5 years.

(4) Section 30(4) of the Small Business, Enterprise and Employment Act 2015 requires that a report published under this regulation must, in particular—

- (a) set out the objectives intended to be achieved by the regulatory provision referred to in paragraph (1)(a),
- (b) assess the extent to which those objectives are achieved,
- (c) assess whether those objectives remain appropriate, and
- (d) if those objectives remain appropriate, assess the extent to which they could be achieved in another way which involves less onerous regulatory provision.

(5) In this regulation, “regulatory provision” has the same meaning as in sections 28 to 32 of the Small Business, Enterprise and Employment Act 2015 (see section 32 of that Act).]

F21 [Reg. 26](#) inserted (2.3.2020) by [The Carcinogens and Mutagens \(Miscellaneous Amendments\) Regulations 2020 \(S.I. 2020/40\)](#), regs. 1, 4

Changes to legislation: *The Merchant Shipping and Fishing Vessels (Health and Safety at Work) (Carcinogens and Mutagens) Regulations 2007 is up to date with all changes known to be in force on or before 18 May 2020. There are changes that may be brought into force at a future date. Changes that have been made appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes*

Signed by authority of the Secretary of State

Department for Transport

Jim Fitzpatrick
Parliamentary Under Secretary of State,

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SCHEDULE 1

Regulation 2

OTHER SUBSTANCES AND PROCESSES TO WHICH
THE DEFINITION OF CARCINOGEN RELATES

Aflatoxins.

Arsenic.

Auramine manufacture.

Work involving exposure to dusts, fumes and sprays produced during the roasting and electro-refining of cupro-nickel mattes.

Work involving exposure to polycyclic aromatic hydrocarbons present in coal soot, coal tar or coal pitch

Hardwood dusts.

[^{F22}Work involving exposure to respirable crystalline silica dust generated by a work process.]

F22 Words in Sch. 1 inserted (2.3.2020) by [The Carcinogens and Mutagens \(Miscellaneous Amendments\) Regulations 2020 \(S.I. 2020/40\)](#), regs. 1, **5(2)**

F22 Words in Sch. 1 inserted (2.3.2020) by [The Carcinogens and Mutagens \(Miscellaneous Amendments\) Regulations 2020 \(S.I. 2020/40\)](#), regs. 1, **5(2)**

Isopropyl alcohol manufacture (strong acid process).

Leather dust in boot and shoe manufacture, arising during preparation and finishing.

Magenta manufacture.

Mustard gas (beta, beta'- dicholorodiethyl sulphide).

Rubber manufacturing and processing giving rise to rubber process dust and rubber fume.

Used engine oils.

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The following polychlorodibenzodioxins—

2,3,7,8-TCCD
1,2,3,7,8-PeCDD
1,2,3,4,7,8-HxCDD
1,2,3,6,7,8-HxCDD
1,2,3,7,8,9-HxCDD
1,2,3,4,6,7,8-HpCDD
OCDD.

The following polychlorodibenzofurans—

2,3,7,8-TCDF
2,3,4,7,8-PeCDF
1,2,3,7,8-PeCDF
1,2,3,4,7,8-HxCDF
1,2,3,7,8,9-HxCDF
1,2,3,6,7,8-HxCDF
2,3,4,6,7,8-HxCDF
1,2,3,4,6,7,8-HpCDF
1,2,3,4,7,8,9-HpCDF
OCDF.

Where T=tetra, Pe=penta, Hx=hexa, Hp=hepta and O=octa.

[^{F23}SCHEDULE 2

Regulation 6(2)

TABLE OF LIMIT VALUES

F23 Sch. 2 substituted (2.3.2020) by [The Carcinogens and Mutagens \(Miscellaneous Amendments\) Regulations 2020 \(S.I. 2020/40\)](#), reg. 1, [Sch.](#)

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Name of agent	EC No	CAS No	Limit values			Notation	Transitional measures
			mg/m ³	ppm	f/ml		
Hardwood dusts	—	—	2	—	—	—	Limit value 3 mg/m ³ until 17 January 2023
Chromium (VI) compounds which are carcinogens within the meaning of point (i) of Article 2(a) (as chromium)	—	—	0,005	—	—	—	Limit values: 0,025 mg/m ³ for welding or plasma cutting processes or similar work processes that generate fume until 17 January 2025, and 0,010 mg/m ³ until 17 January 2025 in all other cases
Refractory ceramic fibres which are carcinogens within the meaning of point (i) of Article 2(a)	—	—	—	—	0,3	—	
Respirable crystalline silica dust	—	—	0,1	—	—	—	
Benzene	200-75371-43-2	71-43-2	3,25	1	—	skin	
Vinyl chloride monomer	200-83175-01-4	75-01-4	2,6	1	—	—	
Ethylene oxide	200-84975-21-8	75-21-8	1,8	1	—	skin	

(1) EC No, i.e. EINECS, ELINCS or NLP, is the official number of the substance within the European Union, as defined in Section 1.1.1.2 in Annex VI, Part 1, to Regulation (EC) No 1272/2008.

(2) CAS No: Chemical Abstract Service Registry Number.

(3) Measured or calculated in relation to a reference period of eight hours.

(4) mg/m³ = milligrams per cubic metre of air at 20 °C and 101,3 kPa (760 mm mercury pressure).

(5) ppm = parts per million by volume in air (ml/m³).

(6) f/ml = fibres per millilitre.

(7) Inhalable fraction: if hardwood dusts are mixed with other wood dusts, the limit value shall apply to all wood dusts present in that mixture.

(8) Respirable fraction.

(9) Substantial contribution to the total body burden via dermal exposure possible.]

Changes to legislation: The Merchant Shipping and Fishing Vessels (Health and Safety at Work) (Carcinogens and Mutagens) Regulations 2007 is up to date with all changes known to be in force on or before 18 May 2020. There are changes that may be brought into force at a future date. Changes that have been made appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

Name of agent	EC No	CAS No	Limit values			Notation	Transitional measures
			mg/m ³	ppm	f/ml		
1,2-Epoxypropane	200-87975-56-9	75-56-9	2,4	1	—	—	
Acrylamide	201-17379-06-1	79-06-1	0,1	—	—	skin	
2-Nitropropane	201-20979-46-9	79-46-9	18	5	—	—	
o-Toluidine	202-42995-53-4	95-53-4	0,5	0,1	—	skin	
1,3-Butadiene	203-450486-99-0	486-99-0	2	1	—	—	
Hydrazine	206-114302-01-0	302-01-0	0,013	0,01	—	skin	
Bromoethylene	209-800503-60-2	503-60-2	4	1	—	—	

- (1) EC No, i.e. Eines, ELINCS or NLP, is the official number of the substance within the European Union, as defined in Section 1.1.1.2 in Annex VI, Part 1, to Regulation (EC) No 1272/2008.
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- (6) f/ml = fibres per millilitre.
- (7) Inhalable fraction: if hardwood dusts are mixed with other wood dusts, the limit value shall apply to all wood dusts present in that mixture.
- (8) Respirable fraction.
- (9) Substantial contribution to the total body burden via dermal exposure possible.]

SCHEDULE 3

Regulation 6(6)

MEASURES TO BE TAKEN BY THE EMPLOYER

1. Limitation of the quantities of a carcinogen or mutagen at the place of work.
2. Keeping as low as possible the number of workers exposed or likely to be exposed.
3. Design of work processes and engineering control measures so as to avoid or minimise the release of carcinogens or mutagens into the place of work.
4. Evacuation of carcinogens or mutagens at source, local extraction system or general ventilation, all such methods to be appropriate and compatible with the need to protect public health and the environment.
5. Use of existing appropriate procedures for the measurement of carcinogens or mutagens, in particular for the early detection of abnormal exposures resulting from an unforeseeable event or an accident.
6. Application of suitable working procedures and methods.
7. Collective protection measures.
8. Where exposure cannot be avoided by other means, individual protection measures taken on their own or together with collective protection measures.
9. Hygiene measures, including in particular regular cleaning of floors, walls and other surfaces.

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10. Information for workers.

11. Demarcation of risk areas and use of adequate warning and safety signs including no smoking signs in areas where workers are exposed or likely to be exposed to carcinogens or mutagens.

12. Drawing up plans to deal with emergencies likely to result in abnormally high exposure.

13. Means for safe storage, handling and transportation, in particular using sealed and clearly and visibly labelled containers.

14. Means for safe collection, storage and disposal of waste by workers, including the use of sealed and clearly and visibly labelled containers.

SCHEDULE 4

Regulation 14(8)

PRACTICAL RECOMMENDATIONS FOR THE HEALTH SURVEILLANCE OF WORKERS

1. The doctor or authority responsible for the health monitoring of workers exposed to carcinogens or mutagens must be familiar with the exposure conditions or circumstances of each worker.

2. Health monitoring of workers must be carried out in accordance with the principles and practices of occupational medicine and must include at least the following measures—

- (a) keeping records of a worker's medical and occupational history;
- (b) a personal interview;
- (c) where appropriate, biological monitoring, as well as detection of early and reversible effects.

3. Further tests may be decided upon for each worker when he is the subject of health monitoring, in the light of the most recent knowledge available to occupational medicine.

EXPLANATORY NOTE

(This note is not part of the Regulations)

These Regulations implement, in relation to United Kingdom ships (as defined by *regulation 2*), Directive [2004/37/EC](#) (O.J.No. L158, 30/04/2004 p. 50), which consolidates Directive [1990/394/EEC](#) of 28th June 1990 on the protection of workers from the risks related to exposure to carcinogens and mutagens, as amended by Directives [1997/42/EC](#) and [1999/38/EC](#) and is an individual Directive within the meaning of Article 16(1) of Directive [89/391/EEC](#), on the introduction of measures to encourage improvements in the safety and health of workers at work. *Regulation 3* sets out the precise application of the Regulations and applies *regulations 21 and 23* also to non-United Kingdom ships when they are in UK waters (*regulation 3(5)*). *Regulation 16* prescribes the persons whose duty it is to comply with the provisions of the Regulations. In the case of an activity likely to involve the risk of exposure to carcinogens or mutagens, *regulation 4* imposes particular duties on an employer in relation to the risk assessment which he is required to carry out under *regulation 7* of the Merchant Shipping and Fishing Vessels (Health and Safety at Work) Regulations 1997 and *regulation 5 and regulation 6* (which introduces

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Schedules 2 and 3) place employers under duties in relation to the reduction and replacement of carcinogens and mutagens and the prevention and reduction of exposure to them.

Regulation 7 specifies types of information which an employer, whose assessment under *regulation 4* reveals risks to health or safety, must make available to the Secretary of State upon request.

Regulation 8 provides that, if an unforeseeable event or accident likely to result in an abnormal exposure of workers occurs, employers must inform the workers and take the precautions specified in *regulation 8(2)*. *Regulation 9* places a duty on employers to take various measures in respect of activities giving rise to a foreseeable risk of exposure. *Regulations 10 and 11* require employers to take appropriate measures to restrict access to risk areas and as respects hygiene and individual protection in relation to any activity involving a risk of contamination.

Regulation 12 specifies the information and training that employers must provide for workers and *regulation 13* imposes a general duty on employers to consult with workers or their representatives about matters covered by these Regulations. *Regulation 14* requires employers to ensure that there are arrangements whereby workers for whom an assessment under *regulation 4* reveals a risk to health are kept under health surveillance and makes detailed provision as to such surveillance. In particular the doctor or body undertaking health surveillance is required to have regard to the practical recommendations set out in Schedule 4. *Regulation 15* requires employers to keep specified records for at least 40 years following the end of exposure to carcinogens or mutagens and to pass the records to the Secretary of State if they cease to trade.

Regulations 17 to 24 concern enforcement. By *regulation 17* contraventions of these Regulations are made criminal offences. Provision is made for corporate offences (*regulation 18*) and the burden of showing that compliance with a duty in these Regulations is not reasonably practicable is on the defendant (*regulation 19*). Inspection and detention of United Kingdom and of non-United Kingdom ships are separately provided for (*regulations 20 and 21*). *Regulation 22* provides that sections 258 to 260 of the Merchant Shipping Act 1995 are, for the purposes of these Regulations to apply in relation to Government ships. Provisions of the 1995 Act and of the Merchant Shipping (Port State Control) Regulations 1995 dealing with the enforcement of detention and with arbitration and compensation are also applied (*regulations 23 and 24*).

Regulation 25 prohibits the levying of any charge on a worker in respect of anything done or provided in pursuance of any specific requirement of these Regulations.

These Regulations are made under powers contained in the Merchant Shipping Act 1995, except in their application to Government ships (*regulation 2(1)*) where the power is provided by section 2(2) of the European Communities Act 1972.

A regulatory impact assessment and a transposition note have been prepared and a copy of each has been placed in the Library of each House of Parliament. Copies can be obtained from the Maritime and Coastguard Agency, Spring Place, 105 Commercial Road, Southampton SO15 1EG (telephone number 012380 329100).

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Changes and effects yet to be applied to :

- reg. 2(1) words inserted by [S.I. 2018/1202 reg. 7\(2\)](#)
- reg. 3(4)(a) words substituted by [S.I. 2018/1202 reg. 7\(3\)](#)