# SEA POLLUTION (CONTROL OF POLLUTION BY NOXIOUS LIQUID SUBSTANCES IN BULK) REGULATIONS 1994

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S.I. No. 46 of 1994.

I, DAVID ANDREWS, Minister for the Marine, in exercise of the powers conferred on me by sections 10 of the Sea Pollution Act, 1991 (No. 27 of 1991) and for the purpose of giving effect to the MARPOL Convention, Annex II, hereby make the following Regulations:

## PART I

## General

### REG 1

Citation and commencement.

1. These Regulations may be cited as the Sea Pollution (Control of Pollution by Noxious Liquid Substances in Bulk) Regulations, 1994 and shall come into operation on the 1st day of June, 1994.

## REG 2

Interpretation and application.

2. (1) In these Regulations except where the context otherwise requires:

"the Act" means the Sea Pollution Act, 1991;

"anniversary date" means the day and the month of each year which will correspond to the date of expiry of the International Pollution Prevention Certificate for the carriage of Noxious Liquid Substances in Bulk:

the "Bulk Chemical Code" means the Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk adopted by the Marine Environment Protection Committee of the Organisation by resolution MEPC.20 (22), as amended by resolution MEPC.41 (29) on 16 March, 1990 and as may be amended by the Organisation; "chemical tanker" means a ship constructed or adapted primarily to carry a cargo of noxious liquid substances in bulk and includes an oil tanker as defined in the Sea Pollution (Prevention of Oil

oil tanker as defined in the Sea Pollution (Prevention of Oil Pollution) Regulations, 1994 (No. 44 of 1994), when carrying a cargo or part cargo of noxious liquid substances in bulk;

"clean ballast" means ballast carried in a tank which, since it was last used to carry a noxious liquid substance in bulk, has been thoroughly cleaned and the residues resulting therefrom have been discharged and the tank emptied in accordance with the appropriate requirements of these Regulations;

"en route" means that the ship is under way at sea on a course, or courses, which so far as practicable for navigational purposes, will cause any discharge to be spread over as great an area of the sea as is reasonably practicable;

"IPPC Certificate" means an International Pollution Prevention Certificate for the Carriage of Noxious Liquid Substances in Bulk; "International Bulk Chemical Code" means the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk adopted by the Marine Environment Protection Committee of the Organisation by resolution MEPC 19 (22), as amended by resolution MEPC.40 (29) on 16 March, 1990 and as may be amended by the Organisation;

"liquid substances" are those having a vapour pressure not exceeding 2.8 kp/cm2 at a temperature of 37.8°C

a "Marine Notice" means a Notice described as such, issued by the Minister for the Marine and which may be amended or replaced from time to time:

the "MARPOL Convention" means the International Convention for the Prevention of Pollution from Ships, 1973, as amended by the Protocol thereto, 1978;

"the Minister" means the Minister for the Marine;

"nearest land". The term "from the nearest land" means from the baseline from which the territorial sea of the territory in question is established in accordance with the Convention on the Territorial Sea and the Contiguous Zone, 1958 except that, for the purposes of the present Convention "from the nearest land" off the north-eastern coast of Australia shall mean from a line drawn from a point on the coast of Australia in latitude 11°00' S, longitude 142°08' E to a point in latitude 10°35' S, longitude 141°55' E, thence to a point latitude 10°00' S, longitude 142°00' E, thence to a point latitude 9°10' S, longitude 143°52' E, thence to a point latitude 9°00' S, longitude 144°30' E, thence to a point latitude 13°00' S, longitude 144°00' E, thence to a point latitude 15°00' S, longitude 146°00' E, thence to a point latitude 18°00' S, longitude 147°00' E, thence to a point latitude 21°00' S, longitude 153°00' E, thence to a point on the coast of Australia in latitude 24°42' S, longitude 153°15' E;

"noxious liquid substances" means the substances listed in the First Schedule (being substances falling into Categories A, B, C and D) and any other liquid substances which are provisionally listed or class-approved as Category A, B, C or D substances and includes residual mixtures:

the "Organisation" means the International Maritime Organisation; a "Party" means a State which has ratified the MARPOL Convention; "residual mixtures" means in relation to any category of noxious liquid substances, ballast water, tank washings or other mixtures containing residues of a noxious liquid substance of such category but excludes clean ballast:

"segregated ballast" means ballast water introduced into a tank permanently allocated to the carriage of ballast or to the carriage of ballast or cargoes other than oil or noxious liquid substances as variously defined in the Annexes of the MARPOL Convention, and which is completely separated from the cargo and oil fuel system; "ship constructed" means a ship the keel of which is laid or which is at a similar stage of construction. A ship converted to a chemical tanker, irrespective of the date of construction, shall be treated as a chemical tanker constructed on the date on which such conversion commenced. This conversion provision shall not apply to the modification of a ship which complies with all of the following conditions:

- (a) the ship is constructed before 1 July, 1986; and
- (b) the ship is certified under the Bulk Chemical Code to carry only those products identified by the Code as substances with pollution hazards only;
- "similar stage of construction" means the stage at which:
- (a) construction identifiable with a specific ship begins; and

(b) assembly of that ship has commenced comprising at least 50 tons or one per cent of the estimated mass of all structural material, whichever is less;

"special area" means a sea area where for recognised technical reasons in relation to its oceanographic and ecological condition and to the particular character of its traffic the adoption of special mandatory methods for the prevention of sea pollution by noxious liquid substances is required.

Special areas are the Baltic Sea area and the Black Sea area, defined as follows:

"the Baltic Sea area" means the Baltic Sea proper with the Gulf of Bothnia, the Gulf of Finland and the entrance to the Baltic Sea bounded by the parallel of the Skaw in the Skagerrak at 57°44.8'N; "the Black Sea area" means the Black Sea proper with the boundary between the Mediterranean and the Black Sea constituted by the parallel 41°N;

"surveyor" means a surveyor of ships or other competent person appointed under section 20 of the Act for the purposes of section 17 of the Act.

- (2) Subject to Section 4 of the Act (which provides for exemptions) and unless expressly provided otherwise, these Regulations apply to all ships carrying noxious liquid substances in bulk;
- (3) The Minister may allow any fitting, material, appliance or apparatus to be fitted in a ship as an alternative to that required by these Regulations if such fitting, material, applicance or apparatus is at least as effective as that required by these Regulations. The authority of the Minister shall not extend to the substitution of operational methods to effect the control of discharge of noxious liquid substances as equivalent to those design and construction features which are prescribed by these Regulations; (4) Any reference in these Regulations to standards and guidelines developed by the Organisation, shall include a reference to any document amending those standards and guidelines which is considered by the Minister to be relevant from time to time and is specified in a Marine Notice.

# **PART II**

# **Categorisation, Listing and Discharge of Noxious Liquid Substances** REG 3

Noxious liquid substances.

3. (1) For the purpose of these Regulations, noxious liquid substances shall be divided into four categories as follows: Category A: Noxious liquid substances which if discharged into the sea from tank cleaning or deballasting operations would present a major hazard to either marine resources or human health or cause serious harm to amenities or other legitimate uses of the sea and, therefore, justify the application of stringent anti-pollution measures:

Category B: Noxious liquid substances which if discharged into the sea from tank cleaning or deballasting operations would present a hazard to either marine resources or human health or cause harm to amenities or other legitimate uses of the sea and, therefore,

justify the application of special anti-pollution measures; Category C: Noxious liquid substances which if discharged into the sea from tank cleaning or deballasting operations would present a minor hazard to either marine resources or human health or cause minor harm to amenities or other legitimate uses of the sea and, therefore, require special operational locations;

Category D: Noxious liquid substances which if discharged into the sea from tank cleaning or deballasting operations would present a recognisable hazard to either marine resources or human health or cause minimal harm to amenities or other legitimate uses of the sea and, therefore, require some attention in operational conditions.

- (2) Guidelines for use in the categorisation of noxious liquid substances are given in the First Schedule to these Regulations.
- (3) The list of noxious liquid substances carried in bulk and presently categorised which are subject to the provisions of these Regulations is set out in the Second Schedule to these Regulations.
- (4) References in these Regulations to substances provisionally assessed are to provisional assessments made in accordance with Regulation 3 of Annex II of the MARPOL Convention.

## REG 4

Other liquid substances.

- 4. (1) The substances listed in the Third Schedule to these Regulations have been evaluated and found to fall outside Categories A, B, C and D because they are presently considered to present no harm to human health, marine resources, amenities or other legitimate uses of the sea, when discharged into the sea from tank cleaning or deballasting operations.
- (2) The discharge of bilge or ballast water or other residues or mixtures containing only substances listed in the Third Schedule to these Regulations shall not be subject to any requirement of these Regulations.
- (3) The discharge into the sea of clean ballast or segregated ballast shall not be subject to any requirement of these Regulations.

Category A, B and C substances outside special areas and Category D substances in all areas

## REG 5

Discharge of noxious liquid substances.

- 5. Subject to the provisions of Section 11 of the Act:
- (1) The discharge into the sea of substances in Category A or of those provisionally assessed as such or of residual mixtures, is hereby prohibited.

If tanks, containing such substances or mixtures are to be washed, the resulting residues shall be discharged to a reception facility until the concentration of the substance in the effluent to such facility is at or below the residual concentration prescribed for that substance in column III of the Second Schedule to these Regulations and until the tank is empty.

- (2) Any water subsequently added to the tank may be discharged into the sea when all the following conditions are satisfied:
- (a) the ship is proceeding en route at a speed of at least 7

knots in the case of self-propelled ships or at least 4 knots in the case of ships which are not self-propelled;

- (b) the discharge is made below the waterline, taking into account the location of the seawater intakes; and
- (c) the discharge is made at a distance of not less than 12 nautical miles from the nearest land and in a depth of water of not less than 25 metres.
- (3) The discharge into the sea of substances in Category B or Category C or of those provisionally assessed as such or of residual mixtures, is hereby prohibited except when all of the following conditions are satisfied:
- (a) the ship is proceeding en route at a speed of at least 7 knots in the case of self-propelled ships or at least 4 knots in the case of ships which are not self-propelled;
- (b) the procedures and arrangements for discharge are approved by the Minister. Such procedures and arrangements shall be based upon standards developed by the Organisation and shall ensure that the concentration and rate of discharge of the effluent is such that the concentration of the substance in Category B in the wake astern of the ship does not exceed 1 part per million and that the concentration of the substance in Category C in the wake astern of the ship does not exceed 10 parts per million.
- (c) the maximum quantity of cargo discharged from each tank and its associated piping system does not exceed the maximum quantity approved in accordance with the procedures referred to in subparagraph (b) of this paragraph, which shall for a substance in Category B in no case exceed the greater of 1 cubic metre or 1/3,000th of the tank capacity in cubic metres and for a substance in Category C, in no case exceed the greater of 3 cubic metres or 1/1,000th of the tank capacity in cubic metres;
- (d) the discharge is made below the waterline, taking into account the location of the seawater intakes; and
- (e) the discharge is made at a distance of not less than 12 nautical miles from the nearest land and in a depth of water of not less than 25 metres.
- (4) The discharge into the sea of substances in Category D or of those provisionally assessed as such or of residual mixtures, is hereby prohibited except when all the following conditions are satisfied:
- (a) the ship is proceeding en route at a speed of at least 7 knots in the case of self-propelled ships or at least 4 knots in the case of ships which are not self-propelled;
- (b) such mixtures are of a concentration not greater than one part of the substance in ten parts of water; and
- (c) the discharge is made at a distance of not less than 12 nautical miles from the nearest land.
- (5) Ventilation procedures approved by the Minister may be used to remove cargo residues from a tank. Such procedures shall be based upon standards developed by the Organisation. Any water subsequently introduced into the tank shall be regarded as clean and shall not be subject to paragraph (1), (2), (3) or (4) of this Regulation.
- (6) The discharge into the sea of substances which have not been categorised, provisionally assessed, or evaluated as referred to in Regulation 4 (1) of these Regulations, or of residual mixtures, is hereby prohibited.

Category A, B and C substances within special areas (7) The discharge into the sea of substances in Category A or of those provisionally assessed as such or of residual mixtures, is hereby prohibited.

If tanks containing such substances or mixtures are to be washed the resulting residues shall be discharged to a reception facility which the Parties bordering the special area shall provide in accordance with Regulation 7 of these Regulations until the concentration of the substance in the effluent to such facility is at or below the residual concentration prescribed for that substance in column IV of the Second Schedule to these Regulations and until the tank is empty. Any water subsequently added to the tank may be discharged into the sea when all the following conditions are satisfied:

- (a) the ship is proceeding en route at a speed of at least 7 knots in the case of self-propelled ships or at least 4 knots in the case of ships which are not self-propelled;
- (b) the discharge is made below the waterline, taking into account the location of the seawater intakes; and
- (c) the discharge is made at a distance of not less than 12 nautical miles from the nearest land and in a depth of water of not less than 25 metres.
- (8) The discharge into the sea of substances in Category B or of those provisionally assessed as such or of residual mixtures, is hereby prohibited except when all the following conditions are satisfied:
- (a) the tank has been prewashed in accordance with the procedure approved by the Minister and based on standards developed by the Organisation and the resulting tank washings have been discharged to a reception facility;
- (b) the ship is proceeding en route at a speed of at least 7 knots in the case of self-propelled ships or at least 4 knots in the case of ships which are not self-propelled;
- (c) the procedures and arrangements for discharge and washings are approved by the Minister. Such procedures and arrangements shall be based upon standards developed by the Organisation and shall ensure that the concentration and rate of discharge of the effluent is such that the concentration of the substance in the wake astern of the ship does not exceed 1 part per million;
- (d) the discharge is made below the waterline, taking into account the location of the seawater intakes; and
- (e) the discharge is made at a distance of not less than 12 nautical miles from the nearest land and in a depth of water of not less than 25 metres.
- (9) The discharge into the sea of substances in Category C or of those provisionally assessed as such or of residual mixtures, is hereby prohibited except when all the following conditions are satisfied:
- (a) the ship is proceeding en route at a speed of at least 7 knots in the case of self-propelled ships or at least 4 knots in the case of ships which are not self-propelled;
- (b) the procedures and arrangements for discharge are approved by the Minister. Such procedures and arrangements shall be based upon standards developed by the Organisation and shall ensure that the concentration and rate of discharge of the effluent is such that

the concentration of the substance in the wake astern of the ship does not exceed 1 part per million;

- (c) the maximum quantity of cargo discharged from each tank and its associated piping system does not exceed the maximum quantity approved in accordance with the procedures referred to in subparagraph (b) of this paragraph which shall in no case exceed the greater of 1 cubic metre of 1/3,000th of the tank capacity in cubic metres;
- (d) the discharge is made below the waterline, taking into account the location of the seawater intakes; and
- (e) the discharge is made at a distance of not less than 12 nautical miles from the nearest land and in a depth of water of not less than 25 metres.
- (10) Ventilation procedures approved by the Minister may be used to remove cargo residues from a tank. Such procedures shall be based upon standards developed by the Organisation. Any water subsequently introduced into the tank shall be regarded as clean and shall not be subject to paragraph (7), (8) or (9) of this Regulation.
- (11) The discharge into the sea of substances which have not been categorised, provisionally assessed or evaluated as referred to in Regulation 4 (1) of these Regulations, or of residual mixtures, is hereby prohibited.
- (12) Nothing in this Regulation shall prohibit the owner and master of a ship from retaining on board the residues from a Category B or C cargo and discharging such residues into the sea outside a special area in accordance with paragraph (3) of this Regulation.

## REG 6

Pumping, piping and unloading arrangements.

- 6. (1) The owner of every ship constructed on or after 1 July, 1986 shall provide the ship with pumping and piping arrangements to ensure, through testing under favourable pumping conditions, that for each tank designated for the carriage of a Category B substance or a Category C substance, respectively, the quantity of residue retained in the tank's associated piping and in the immediate vicinity of that tank's suction point would not exceed:
- (a) in the case of a tank designated for the carriage of a Category B substance, 0.1 cubic metres, or
- (b) in the case of a tank designated for the carriage of a Category C substance, 0.3 cubic metres.
- (2) Subject to the provisions of paragraph (3) of this Regulation, the owner of every ship constructed before 1 July, 1986 shall provide the ship with pumping and piping arrangements to ensure, through testing under favourable pumping conditions, that for each tank designated for the carriage of a Category B substance or a Category C substance, respectively, the quantity of residue retained in the tank's associated piping and in the immediate vicintity of that tank's suction point would not exceed:
- (a) in the case of a tank designated for the carriage of a Category B substance, 0.3 cubic metres, or
- (b) in the case of a tank designated for the carriage of a Category C substance, 0.9 cubic metres.
- (3) Until 2 October, 1994 ships referred to in paragraph (2) of this Regulation if not in compliance with the requirements of that

paragraph shall, as a minimum, be provided with pumping and piping arrangements to ensure, through testing under favourable pumping conditions and surface residue assessment, that each tank designated for the carriage of a Category B substance or a Category C substance the quantity of residue retained in that tank and the associated piping would not exceed:

- (a) in the case of a tank designated for the carriage of a Category B substance, 1 cubic metre or 1/3000th of the capacity of the tank in cubic metres, whichever is the greater, or
- (b) in the case of a tank designated for the carriage of a Category C substance, 3 cubic metres or 1/1000th of the capacity of the tank in cubic metres, whichever is the greater.
- (4) Pumping conditions referred to in paragraphs (1), (2) and (3) of this Regulation shall be approved by the Minister and based on standards developed by the Organisation. Pumping efficiency tests referred to in paragraphs (1), (2) and (3) of this Regulation shall use water as the test medium and shall be approved by the Minister and based on standards developed by the Organisation. The residues on cargo tank surfaces, referred to in paragraph (3) of this Regulation shall be based on standards developed by the Organisation. (5) (a) Subject to the provisions of subparagraph (b) of this
- (5) (a) Subject to the provisions of subparagraph (b) of this paragraph, the provisions of paragraph (2) of this Regulation need not apply to a ship constructed before 1 July, 1986 which is engaged in restricted voyages as determined by the Minister between:
- (i) ports or terminals within the State or other Party; or
- (ii) ports or terminals of Parties.
- (b) The provisions of subparagraph (a) of this paragraph shall only apply to a ship constructed before 1 July, 1986 if:
- (i) each time a tank containing Category B or C substances or mixtures is to be washed or ballasted, the tank is washed in accordance with a pre-wash procedure approved by the Minister and based on standards developed by the Organisation and the tank washings are discharged to a reception facility;
- (ii) subsequent washings or ballast water are discharged to a reception facility or at sea in accordance with other provisions of these Regulations;
- (iii) the adequacy of the reception facilities at the ports or terminals referred to above, for the purpose of this paragraph, is approved by the Minister or the Administration in case of ports or terminals of other Parties;
- (iv) the Certificate required under these Regulations is endorsed to the effect that the ship is soley engaged in such restricted voyages.
- (6) For a ship whose constructional and operational features are such that ballasting of cargo tanks is not required and cargo tank washing is only required for repair or dry-docking, the Minister may allow exemption from the provisions of paragraphs (1), (2) and (3) of this Regulation, provided that all the following conditions are complied with:
- (a) the design, construction and equipment of the ship are approved by the Minister, having regard to the service for which it is intended:
- (b) any effluent from tank washings which may be carried out before a repair or dry-docking is discharged to a reception facility, the

adequacy of which is ascertained by the Minister;

- (c) the certificate required under these Regulations indicates:
- (i) that each cargo tank is certified for the carriage of only one named substance; and
- (ii) the particulars of the exemption;
- (d) the ship carries a suitable operational manual approved by the Minister.

## REG 7

Reception facilities and cargo unloading terminal arrangements.

- 7. (1) Harbour authorities and persons having control of a harbour shall provide reception facilities according to the needs of ships using its ports, terminals or repair ports as follows:
- (a) cargo loading and unloading ports and terminals shall have facilities adequate for reception without undue delay to ships of such residues and mixtures containing noxious liquid substances as would remain for disposal from ships carrying them as a consequence of the application of these Regulations; and
- (b) ship repair ports undertaking repairs to chemical tankers shall have facilities adequate for the reception of residues and mixtures containing noxious liquid substances.
- (2) The types of facilities provided for the purpose of paragraph
- (1) of this Regulation at each cargo loading and unloading port, terminal and ship repair port shall be to the satisfaction of the Minister.
- (3) Harbour authorities and persons having control of cargo unloading terminals shall provide arrangements to facilitate stripping of cargo tanks of ships unloading noxious liquid substances at these terminals. Cargo hoses and piping systems of the terminal, containing noxious liquid substances received from ships unloading these substances at the terminal, shall not be drained back to the ship.

  (4) The Minister shall notify the Organisation, for transmission to the Parties concerned, of any case where facilities required under paragraph (1) or arrangements required under paragraph (3) of this Regulation are alleged to be inadequate.

# REG 8

## Measures of control.

- 8. (1) (a) The Minister shall appoint or authorise surveyors for the purpose of implementing this Regulation. The surveyors shall execute control as approved by the Minister and based on standards and control procedures developed by the Organisation.
- (b) The master of a ship carrying noxious liquid substances in bulk shall ensure that the provisions of Regulation 5 and this Regulation have been complied with and that the Cargo Record Book is completed in accordance with Regulation 9 of these Regulations whenever operations as referred to in that Regulation take place.
- Washing tanks which contained Category A substances—in all areas (2) With respect to Category A substances a tank which has been unloaded shall, subject to the provisions of paragraph (10) of this Regulation, with respect to Category A substances, be washed in accordance with the requirements of paragraph (3) or (4) of this Regulation before the ship leaves the port of unloading.

- (3) If the tank is to be washed in accordance with paragraph (2) of this Regulation, the effluent from the tank washing operation shall be discharged to a reception facility at least until the concentration of the substance in the discharge, as indicated by analyses of samples of the effluent taken by the surveyor, has fallen to the residual concentration specified for that substance in the Second Schedule to these Regulations. When the required residual concentration has been achieved, remaining tank washings shall continue to be discharged to the reception facility until the tank is empty. Appropriate entries of these operations shall be made in the Cargo Record Book and endorsed by the surveyor referred to under paragraph (1) (a) of this Regulation.
- (4) Where the Minister is satisfied that it is impracticable to measure the concentration of the substance in the effluent without causing undue delay to the ship, he may accept an alternative procedure as being equivalent to paragraph (3) of this Regulation provided that:
- (a) The tank is prewashed in accordance with a procedure approved by the Minister and based on standards developed by the Organisation; and
- (b) The surveyor referred to under paragraph (1) (a) of this Regulation certifies in the Cargo Record Book that:
- (i) the tank, its pump and piping systems have been emptied; and
- (ii) the prewash has been carried out in accordance with the prewash procedure approved by the Minister for that tank and that substance; and
- (iii) the tank washings resulting from such prewash have been discharged to a reception facility and the tank is empty.

  Washing tanks which contained Category B and C substances—outside special areas
- (5) With respect to Category B and C substances, the following provisions shall apply outside special areas:
- A tank which has been unloaded shall, subject to the provisions of paragraph (10) of this Regulation, with respect to Category B and C substances, be prewashed before the ship leaves the port of unloading, whenever:
- (i) the substance unloaded is identified in the standards developed by the Organisation as resulting in a residue quantity exceeding the maximum quantity which may be discharged into the sea under Regulation 5 (3) of these Regulations in case of Category B or C substances, respectively; or
- (ii) the unloading is not carried out in accordance with the pumping conditions for the tank approved by the Minister and based on standards developed by the Organisation as referred to under Regulation 6 (4) of these Regulations, unless alternative measures are taken to the satisfaction of the surveyor referred to in paragraph (1) (a) of this Regulation, to remove the cargo residues from the ship to quantities specified in Regulation 6 of these Regulations as applicable.

The prewash procedure used shall be approved by the Minister and based on standards developed by the Organisation and the resulting tank washings shall be discharged to a reception facility at the port of unloading.

Washing tanks which contained Category B substances—within special areas

- (6) With respect to Category B substances, the following provisions shall apply within special areas:
- (a) A tank which has been unloaded shall, subject to the provisions of subparagraph (b) of this paragraph and paragraph (10) of this Regulation with respect to Category B substances, be prewashed before the ship leaves the port of unloading and the resulting tank washings shall be discharged to a reception facility at the port of unloading. The prewash procedure used shall be approved by the Minister and based on standards developed by the Organisation.
- (b) The requirements of subparagraph (a) of this paragraph do not apply when all the following conditions are satisfied:
- (i) the Category B substance unloaded is identified in the standards developed by the Organisation as resulting in a residue quantity not exceeding the maximum quantity which may be discharged into the sea outside special areas under Regulation 5 (3) of these Regulations, with respect to Category B substances, and the residues are retained on board for subsequent discharge into the sea outside the special area in compliance with Regulation 5 (3) of these Regulations; and
- (ii) the unloading is carried out in accordance with the pumping conditions for the tank approved by the Minister and based on standards developed by the Organisation as referred to under Regulation 6 (4) of these Regulations, or failing to comply with the approved pumping conditions, alternative measures are taken to the satisfaction of the surveyor referred to in paragraph (1) (a) of this Regulation, to remove the cargo residues from the ship to quantities specified in Regulation 6 of these Regulations as applicable.

Washing tanks which contained Category C substances — within special areas

- (7) With respect of Category C substances, the following provisions shall apply within special areas:
- (a) A tank which has been unloaded shall, subject to the provisions of subparagraph (b) of this paragraph and paragraph (10) of this Regulation with respect to Category C substances, be prewashed before the ship leaves the port of unloading, whenever:
- (i) the Category C substance unloaded is identified in the standards developed by the Organisation as resulting in a residue quantity exceeding the maximum quantity which may be discharged into the sea under Regulation 5 (9) of these Regulations; or
- (ii) the unloading is not carried out in accordance with the pumping conditions for the tank approved by the Minister and based on standards developed by the Organisation as referred to under Regulation 6 (4) of these Regulations, unless alternative measures are taken to the satisfaction of the surveyor referred to in paragraph (1) (a) of this Regulation, to remove the cargo residues from the ship to quantities specified in Regulation 6 of these Regulations as applicable.

The prewash procedure used shall be approved by the Minister and based on standards developed by the Organisation and the resulting tank washings shall be discharged to a reception facility at the port of unloading.

- (b) The requirements of subparagraph (a) of this paragraph do not apply when all the following conditions are satisfied:
- (i) the Category C substance unloaded is identified in the standards developed by the Organisation as resulting in a residue quantity not

exceeding the maximum quantity which may be discharged into the sea outside special areas under Regulation 5 (3) of these Regulations, with respect to Category C substances, and the residues are retained on board for subsequent discharge into the sea outside the special area in compliance with Regulation 5 (3) of these Regulations; and (ii) the unloading is carried out in accordance with the pumping conditions for the tank approved by the Minister and based on standards developed by the Organisation as referred to under Regulation 6 (4) of these Regulations, or failing to comply with the approved pumping conditions, alternative measures are taken to the satisfaction of the surveyor referred to in paragraph (1) (a) of this Regulation, to remove the cargo residues from the ship to quantities specified in Regulation 6 of these Regulations as applicable.

Washing tanks which contained Category D substances—all areas (8) With respect to Category D substances, a tank which has been unloaded shall either be washed and the resulting tank washings shall be discharged to a reception facility, or the remaining residues in the tank shall be diluted and discharged into the sea in accordance with Regulation 5 (4) of these Regulations. Discharge from a slop tank

(9) Any residues retained on board in a slop tank, including those from cargo pump-room bilges, which contain a Category A substance, or within a special area either a Category A or a Category B substance, shall be discharged to a reception facility in accordance with the provisions of Regulation 5 (1), (2), (7) or (8) of these Regulations, whichever is applicable.

Exemptions—Categories A, B and C—all areas

(10) At the request of the ship's owner, an exemption from the provisions of this Regulation may be granted by the Minister to a ship engaged in voyages to ports or terminals under the jurisdiction of other Parties. When such an exemption has been granted, the appropriate entry made in the Cargo Record Book shall be endorsed by the surveyor referred to in paragraph (1) (a) of this Regulation.

# (a) Category A substances

At the request of the ship's owner, the Minister may exempt a ship from the requirements of paragraph (2) of this Regulation, where satisfied that:

- (i) the tank unloaded is to be reloaded with the same substance or another substance compatible with the previous one and that the tank will not be washed or ballasted prior to loading; or
- (ii) the tank unloaded is neither washed nor ballasted at sea and the provisions of paragraph (3) or (4) of this Regulation are complied with at another port provided that it has been confirmed in writing that a reception facility at that port is available and is adequate for such a purpose; or
- (iii) the cargo residues will be removed by a ventilation procedure approved by the Minister and based on standards developed by the Organisation.
- (b) Categories B and C substances

At the request of the ship's owner, the Minister may exempt a ship from the requirements of paragraphs (5), (6) (a) and (7) (a) of this Regulation where satisfied that:

(i) the tank unloaded is to be reloaded with the same substance or

another substance compatible with the previous one and that the tank will not be washed or ballasted prior to loading; or

- (ii) the tank unloaded is neither washed nor ballasted at sea and the tank is prewashed in accordance with a procedure approved by the Minister and based on standards developed by the Organisation and resulting tank washings are discharged to a reception facility at another port, provided that it has been confirmed in writing that a reception facility at that port is available and adequate for such a purpose; or
- (iii) the cargo residues will be removed by a ventilation procedure approved by the Minister and based on standards developed by the Organisation.

# PART III Records

REG9

# Cargo record book.

- 9. (1) Every ship to which these Regulations apply shall be provided by the owner with a Cargo Record Book, whether as part of the ship's official log book or otherwise, in the form specified in the Fourth Schedule to these Regulations.
- (2) The Cargo Record Book shall be completed, on a tank-to-tank basis, whenever any of the following operations with respect to a noxious liquid substance take place in the ship:
- (i) loading of cargo;
- (ii) internal transfer of cargo;
- (iii) unloading of cargo;
- (iv) cleaning of cargo tanks;
- (v) ballasting of cargo tanks;
- (vi) discharge of ballast from cargo tanks;
- (vii) disposal of residues to reception facilities;
- (viii) discharge into the sea or removal by ventilation of residues in accordance with Regulation 5 of these Regulations.
- (3) In the event of any discharge of the kind referred to in Article 8 of the MARPOL Convention and section 11 of the Sea Pollution Act, 1991 of any noxious liquid substance or mixture containing such substance, whether intentional or accidental, an entry shall be made in the Cargo Record Book stating the circumstances of, and the reason for, the discharge.
- (4) When a surveyor appointed or authorised by the Minister to supervise any operations under these Regulations has inspected a ship, then that surveyor shall make an appropriate entry in the Cargo Record Book.
- (5) The entries in the Cargo Record Book shall be in an official language of the State whose flag the ship is entitled to fly, and, for ships holding an IPPC Certificate or a certificate referred to in Regulation 12A of these Regulations, in English or French. The entries in an official national language of the State whose flag the ship is entitled to fly shall prevail in case of a dispute or discrepancy.
- (6) The Cargo Record Book shall be kept in such a place as to be readily available for inspection and, except in the case of unmanned

ships under tow, shall be kept on board the ship. It shall be retained for a period of three years after the last entry has been made.

(7) The Minister may inspect the Cargo Record Book on board any ship to which these Regulations apply while the ship is in port, and may make a copy of any entry in that book and may require the master of the ship to certify that the copy is a true copy of such entry. Any copy so made which has been certified by the master of the ship as a true copy of an entry in the ship's Cargo Record Book shall be made admissible in any judicial proceedings as evidence of the facts stated in the entry. The inspection of a Cargo Record Book and the taking of a certified copy by the Minister under this paragraph shall be performed as expeditiously as possible without causing the ship to be unduly delayed.

# PART IV Surveys and Certification

**REG 10** 

## Surveys.

- 10. (1) Ships carrying noxious liquid substances in bulk shall be subject to the surveys specified below:
- (a) An initial survey before the ship is put in service or before the IPPC Certificate required under regulation 11 of these Regulations is issued for the first time, which shall include a complete survey of its structure, equipment, systems, fittings, arrangements and material in so far as the ship is covered by these Regulations. This survey shall be such as to ensure that the structure, equipment, systems, fittings, arrangements and material fully comply with the applicable requirements of these Regulations.
- (b) a renewal survey at intervals specified by the Minister but not exceeding 5 years, except where Regulation 12 (2), 12 (5), 12 (6) or 12 (7) of these Regulations is applicable. The renewal survey shall be such as to ensure that the structure, equipment, systems, fittings, arrangements and material fully comply with applicable requirements of these Regulations.
- (c) An intermediate survey within 3 months before or after the second anniversary date or within 3 months before or after the third anniversary date of the IPPC Certificate which shall take the place of one of the annual surveys specified in paragraph (1) (d) of this Regulation. The intermediate survey shall be such as to ensure that the equipment and associated pump and piping systems fully comply with the applicable requirements of these Regulations and are in good working order. Such intermediate surveys shall be endorsed on the IPPC Certificate.
- (d) An annual survey within 3 months before or after each anniversary date of the IPPC Certificate including a general inspection of the structure, equipment, systems, fittings, arrangements and material referred to in paragraph (1) (a) of this Regulation to ensure that they have been maintained in accordance with paragraph (3) of this Regulation and that they remain satisfactory for the service for which the ship is intended. Such annual surveys shall

be endorsed on the IPPC Certificate.

- (e) An additional survey either general or partial, according to the circumstances, shall be made after a repair resulting from investigations prescribed in paragraph (3) of this Regulation, or whenever any important repairs or renewals are made. The survey shall be such as to ensure that the necessary repairs or renewals have been effectively made, that the material and workmanship of such repairs or renewals are in all respects satisfactory and that the ship complies in all respects with the requirements of these Regulations.
- (2) (a) The condition of the ship and its equipment shall be maintained to conform with the provisions of these Regulations to ensure that the ship in all respects will remain fit to proceed to sea without presenting an unreasonable threat of harm to the marine environment.
- (b) After any survey of the ship under paragraph (1) of this Regulation has been completed, no change shall be made in the structure, equipment, systems, fittings, arrangements or material covered by the survey, without the sanction of the Minister, except the direct replacement of such equipment and fittings.
- (c) Whenever an accident occurs to a ship or a defect is discovered which substantially affects the integrity of the ship or the efficiency or completeness of its equipment covered by these Regulations, the master and owner of the ship shall report at the earliest opportunity to the Minister, the recognised organisation or the nominated surveyor responsible for issuing the relevant IPPC Certificate, who shall cause investigations to be initiated to determine whether a survey as required under paragraph (1) of this Regulation is necessary. If the ship is in a port of another Party, the master and owner shall also report immediately to the appropriate authorities of the port State and the nominated surveyor or recognised organisation shall ascertain that such report has been made.

## **REG 11**

Issue or endorsement of certificate.

- 11. (1) An IPPC Certificate shall be issued, after an initial or renewal survey in accordance with the provisions of regulation 10 of these Regulations, to any ship carrying noxious liquid substances in bulk and which is engaged in voyages to ports or terminals under the jurisdiction of other Parties.
- (2) Such IPPC Certificates shall be issued or endorsed either by the Minister or by any person or organisation duly authorised by the Minister. In every case, the Minister assumes full responsibility for the Certificate.
- (3) (a) The Government of another Party may, at the request of the Minister, cause a ship to be surveyed and, if satisfied that the provisions of these Regulations are complied with, shall issue or authorise the issue of an IPPC Certificate to the ship and, where appropriate, endorse or authorise the endorsement of that Certificate on the ship, in accordance with these Regulations.
- ( b ) A copy of the IPPC Certificate and a copy of the survey report shall be transmitted as soon as possible to the Minister.
- (c) An IPPC Certificate so issued shall contain a statement to

the effect that it has been issued at the request of the Minister and it shall have the same force and receive the same recognition as the IPPC Certificate issued under paragraph (1) of this Regulation.

- (d) An IPPC Certificate shall not be issued to a ship which is entitled to fly the flag of a State which is not a Party.
- (4) The IPPC Certificate shall be drawn up in the form corresponding to the model given in the Fifth Schedule to these Regulations. If the language used is not English, the text shall include a translation into English.
- (5) Notwithstanding any other provisions of the amendments to these Regulations adopted by the Marine Environment Protection Committee (MEPC) by resolution MEPC.39 (29), any IPPC Certificate, which is current when these amendments enter into force, shall remain valid until it expires under the terms of these Regulations prior to the amendments entering into force.

### **REG 12**

Duration and validity of certificate.

- 12. (1) An IPPC Certificate shall be issued for a period specified by the Minister, which shall not exceed 5 years from the date of issue.
- (2) (a) Notwithstanding the requirements of paragraph (1) of this Regulation, when the renewal survey is completed within 3 months before the expiry date of the existing IPPC Certificate, the new IPPC Certificate shall be valid from the date of completion of the renewal survey to a date not exceeding 5 years from the date of expiry of the existing Certificate;
- (b) When the renewal survey is completed after the expiry date of the existing IPPC Certificate, the new IPPC Certificate shall be valid from the date of completion of the renewal survey to a date not exceeding 5 years from the date of expiry of the existing Certificate;
- (c) When the renewal survey is completed more than 3 months before the expiry date of the existing IPPC Certificate, the new IPPC Certificate shall be valid from the date of completion of the renewal survey to a date not exceeding 5 years from the date of completion of the renewal survey.
- (3) If an IPPC certificate is issued for a period of less than 5 years, the Minister may extend the validity of the Certificate beyond the expiry date to the maximum period specified in paragraph (1) of this Regulation, provided that the surveys referred to in Regulation 10 (1) (c) and 10 (1) (d) of these Regulations applicable when an IPPC Certificate is issued for a period of 5 years are carried out as appropriate.
- (4) If a renewal survey has been completed and a new IPPC Certificate cannot be issued or placed on board the ship before the expiry date of the existing IPPC Certificate, the person or organisation authorised by the Minister may endorse the existing IPPC Certificate and such a certificate shall be accepted as valid for a further period which shall not exceed 5 months from the expiry
- (5) If a ship at the time when an IPPC Certificate expires is not in a port in which it is to be surveyed, the Minister may extend

the period of validity of the Certificate but this extension shall be granted only for the purpose of allowing the ship to complete its voyage to the port in which it is to be surveyed, and then only in cases where it appears proper and reasonable to do so. No IPPC Certificate shall be extended for a period longer than 3 months, and a ship to which an extension is granted shall not, on its arrival in the port in which it is to be surveyed, be entitled by virtue of such extension to leave that port without having a new IPPC Certificate. When the renewal survey is completed, the new Certificate shall be valid to a date not exceeding 5 years from the date of expiry of the existing Certificate before the extension was granted.

- (6) An IPPC Certificate issued to a ship engaged on short voyages which has not been extended under the foregoing provisions of this Regulation may be extended by the Minister for a period of grace of up to one month from the date of expiry stated on it. When the renewal survey is completed, the new IPPC Certificate shall be valid to a date not exceeding 5 years from the date of expiry of the existing Certificate before the extension was granted.

  (7) In special circumstances, as determined by the Minister, a new
- IPPC Certificate need not be dated from the date of expiry of the existing Certificate as required by paragraph (2) (b), (5) or (6) of this Regulation. In these special circumstances, the new IPPC Certificate shall be valid to a date not exceeding 5 years from the date of completion of the renewal survey.
- (8) If an annual or intermediate survey is completed before the period specified in regulation 10 of these Regulations, then:
- (a) the anniversary date shown on the IPPC Certificate shall be amended by endorsement to a date which shall not be more than 3 months later than the date on which the survey was completed;
- (b) the subsequent annual or intermediate survey required by Regulation 10 of these Regulations shall be completed at the intervals prescribed by that Regulation using the new anniversary date;
- (c) the expiry date may remain unchanged, provided one or more annual or intermediate surveys, as appropriate, are carried out so that the maximum intervals between the surveys prescribed by Regulation 10 of these Regulations are not exceeded.
- (9) An IPPC Certificate issued under Regulation 11 of these Regulations shall cease to be valid in any of the following cases: (a) if the relevant surveys are not completed within the periods specified under Regulation 10 (1) of these Regulations;
- (b) if the Certificate is not endorsed in accordance with Regulation 10 (1) (c) or 10 (1) (d) of these Regulations;
- (c) upon transfer of the ship to the flag of another State. A new IPPC Certificate shall only be issued when the Government issuing the new Certificate is fully satisfied that the ship is in compliance with the requirements of Regulation 10 (3) (a) and 10
- (3) (b) of these Regulations. In the case of a ship which has transferred from registry in another Party the Minister may request the Government of that Party within 3 months after the transfer has taken place, to transmit copies of the IPPC Certificate carried by the ship before the transfer and, if available, copies of the relevant survey reports.

## **REG 12A**

Survey and certification of chimical tankers.

12A. Notwithstanding the provisions of Regulations 10, 11 and 12 of these Regulations, chemical tankers which have been surveyed and certified by Parties in accordance with the provisions of the International Bulk Chemical Code or the Bulk Chemical Code, as applicable, shall be deemed to have complied with the provisions of the said Regulations, and the Certificate issued under that Code shall have the same force and receive the same recognition as the IPPC Certificate.

# **REG 13**

Requirements for minimising accidental pollution.

- 13. (1) The design, construction, equipment and operation of ships carrying noxious liquid substances of Category A, B or C in bulk, shall be such as to minimise the uncontrolled discharge into the sea of such substances.
- (2) Chemical tankers constructed on or after 1 July, 1986 shall comply with the requirements of the International Bulk Chemical Code.
- (3) Chemical tankers constructed before 1 July, 1986 shall comply with the following requirements:
- (a) The following chemical tankers shall comply with the requirements of the Bulk Chemical Code as applicable to ships referred to in 1.7.2 of that Code:
- (i) ships for which the building contract was placed on or after 2 November, 1973 and which are engaged on voyages to ports or terminals under the jurisdiction of other Parties; and
- (ii) ships constructed on or after 1 July, 1983 which are engaged solely on voyages between ports or terminals within the State the flag of which the ship is entitled to fly.
- (b) The following chemical tankers shall comply with the requirements of the Bulk Chemical Code as applicable to ships referred to in 1.7.3 of that Code:
- (i) ships for which the building contract was placed before 2 November, 1973 and which are engaged on voyages to ports or terminals under the jurisdiction of other Parties; and
- (ii) ships constructed before 1 July, 1983 which are engaged on voyages between ports or terminals within the State the flag of which the ship is entitled to fly, except that for ships of less than 1,600 tons gross tonnage compliance with the Code in respect of construction and equipment shall take effect not later than 1 July, 1994.
- (4) In respect of ships other than chemical tankers carrying noxious liquid substances of Category A, B or C in bulk, the Minister shall establish appropriate measures based on the Guidelines developed by the Organisation in order to ensure that the provisions of paragraph (1) of this Regulation are complied with.

Carriage and discharge of oil-like substances.

- 14. Notwithstanding the provisions of other Regulations of these Regulations, noxious liquid substances designated in the Second Schedule to these Regulations as falling under the Category C or D and identified by the Organisation as oil-like substances under the criteria developed by the Organisation, may be carried on an oil-tanker as defined in the Sea Pollution (Prevention of Oil Pollution) Regulations, 1994 (No. 44 of 1994) and discharged in accordance with the provisions of those Regulations provided that all of the following conditions are complied with:
- (a) the ship complies with the provisions of the Sea Pollution (Prevention of Oil Pollution) Regulations, 1994 (No. 44 of 1994) as applicable to product carriers as defined in those Regulations;
- (b) the ship carries an International Oil Pollution Prevention Certificate and its Supplement B and the Certificate is endorsed to indicate that the ship may carry oil-like substances in conformity with this Regulation and the endorsement includes a list of oil-like substances the ship is allowed to carry;
- (c) in the case of Category C substances the ship complies with the ship type 3 damage stability requirements of:
- (i) the International Bulk Chemical Code in the case of a ship constructed on or after 1 July, 1986; or
- (ii) the Bulk Chemical Code, as applicable under Regulation 13 of these Regulations, in the case of a ship constructed before 1 July, 1986; and
- ( d ) the oil content meter in the oil discharge monitoring and control system of the ship is approved by the Minister for use in monitoring the oil-like substances to be carried.

# FIRST SCHEDULE

Guidelines for the Categorisation or Noxious Liquid Substances

Category ASubstances which are bio-accumulated and liable to produce a hazard to aquatic life or human health; or which are highly toxic to aquatic life (as expressed by a Hazard Rating 4, defined by a TLm less than 1 ppm.); and additionally certain substances which are moderately toxic to aquatic life (as expressed by a Hazard Rating 3, defined by a TLm of 1 ppm or more, but less than 10 ppm) when particular weight is given to additional factors in the hazard profile or to special characteristics of the substance. Category BSubstances which are bio-accumulated with a short retention of the order of one week or less; or which are liable to produce tainting of the sea food; or which are moderately toxic to aquatic life (as expressed by a Hazard Rating 3, defined by a TLm or 1 ppm or more, but less than 10 ppm); and additionally certain substances which are slightly toxic to aquatic life (as expressed by a Hazard Rating 2, defined by a TLm of 10 ppm or more, but less than 100 ppm) when particular weight is given to

additional factors in the hazard profile or to special characteristics of the substance. Category CSubstances which are slightly toxic to aquatic life (as expressed by a Hazard Rating 2, defined by a TLm of 10 ppm or more, but less than 100 ppm); and additionally certain substances which are practically non-toxic to aquactic life (as expressed by a Hazard Rating 1, defined by a TLm of 100 ppm or more, but less than 1,000 ppm) when particular weight is given to additional factors in the hazard profile or to special characteristics of the substance. Category DSubstances which are practically non-toxic to aquatic life (as expressed by a Hazard Rating 1, defined by a TLm of 100 ppm or more, but less than 1,000 ppm); or causing deposits blanketing the sea floor with a high biochemical oxygen demand (BOD); or which are highly hazardous to human health, with an LD50 of less than 5 mg/kg; or which produce moderate reduction of amenities because of persistency, smell or poisonous or irritant characteristics, possibly interfering with use of beaches; or which are moderately hazardous to human health, with an LD50 of 5 mg/kg or more, but less than 50 mg/kg and produce slight reduction of amenities. Other Liquid Substances (for the purposes of Regulation 4 of these Regulations) Substances other than those categorised in Categories A, B, C and D above.

# SECOND SCHEDULE

List of noxious liquid substances carried in bulk

SubstanceUN No.Pollution category for operational dischargeResidual concentration (% by weight)(Reg. 3 of

Annex II)(Reg. 5 (1) of

Annex II)(Reg. 5 (7)

of Annex II)IIIIIIVOutside special areasWithin special areas Acetaldehyde1089C Acetic acid2789D Acetic anhydrideD Acetone cyanohydrin1541A0.10.05 Acrylamide solution (50% or less)2074D Acrylic acid2218D Acrylonitrile1093B Adiponitrile2205D Alcohol (C12—C15) poly (1-3) ethoxylatesA0.10.05 Alcohol (C12—C15) poly (3-11) ethoxylatesA0.10.05

SubstanceUN No.Pollution category for operational dischargeResidual concentration (% by weight)(Reg. 3 of

Annex II)(Reg. 5 (1) of

Annex II)(Reg. 5 (7)

of Annex II)IIIIIIVOutside special areasWithin special areas Alcohol (C6—C17) (secondary) poly (3–6) ethoxylatesA0.10.05 Alcohol (C6—C17) (secondary) poly (7–12) ethoxylatesB Alkyl acrylate/Vinylpyridine copolymer in toluene C Alkyl (C9—C17) benzenes(D) Alkyl benzene sulphonic acid2584,C2586 Alkyl benzene sulphonic acid, sodium salt solutionC Allyl alcohol1098B Allyl chloride1100B Alluminium chloride (30% or less)/Hydrochloric acid (20% or less) solutionD Aluminium sulphate solution 2-(2-Aminoethoxy) ethanol3055D Aminoethylethanolamine (D) N-Aminoethylpiperazine 2815D 2-Amino-2-methyl-1-propanol (90% or less) D Ammonia aqueous (28% or less)2672\*C Ammonium nitrate solution (93% or less)D Ammonium sulphate solutionD Ammonium sulphide solution (45% or less)2683B Ammonium thiocyanate(25% or less)/Ammonium thiosulphate (20% or less) solution(C) Ammonium thiosulphate solution (60% or less)(C) n-Amyl acetate1104C sec-Amyl acetate1104C Amyl acetate, commercial1104C n-Amyl alcohol1105D sec-Amyl alcohol1105D Amyl

alcohol, primary1105D Aniline1547C Animal and fish oils, n.o.s.D including: Cod liver oil Sperm oil Aviation alkylates (C8 paraffins and isoparaffins BPT 95-120°C)(C) Benzene and mixtures having 10% benzene or more 1114†C Benzene sulphonyl chloride 2225D Benzyl acetate C Benzyl alcoholC Benzyl chloride1738B Brake fluid base mix: (Poly (2-8) alkylene (C2-C3) glycols/Polyalkylene (C2-C10) glycols/ Monoalkyl (C1-C4) ethers and their borate esters)D Butene oligomerB n-Butyl acetate1123C sec-Butyl acetate1123D n-Butyl acrylate2348B Butylamine (all isomers)C Butylbenzenes (all isomers)2709(A)0.10.05 Butyl benzyl phthalateA0.10.05 n-Butyl butyrate (C) Butyl/Decyl/Cetyl/Eicosyl methacrylate mixtureD Butylene glycol D 1,2- Butylene oxide3022C n-Butyl ether 1149C Butyl lactateD Butyl methacrylateD n-Butyraldehyde 1129B Butyric acid2820D gamma-ButyrolactoneD Calcium alkyl salicylateC Calcium hydroxide slurry D Calcium hypochlorite solution (15% or less)C Calcium hypochlorite solution (more than 15%)B Calcium naphthenate in mineral oilA0.10.05 Camphor oil1130B epsilon-Caprolactam (molten or aqueous solutions) D Carbolic oilA0.10.05 Carbon disulphide1131B Carbon tetrachloride1846B Cashew nut shell oil (untreated)D Chlorinated paraffins (C10-C13)A0.10.05 Chloroacetic acid (80% or less)1750C Chlorobenzene1134B Chloroform1888B Chlorohydrins (crude)(D) o—Chloronitrobenzene1578B 2-or 3-Chloropropionic acid (C) Chlorosulphonic acid 1754C m-Chlorotoluene2238B o-Chlorotoluene2238A0.10.05 p-Chlorotoluene2238B Chlorotoluenes (mixed isomers)2238A0.10.05 Choline chloride solutionsD Citric acidD Coal tarA0.10.05 Coal tar naphtha solvent B Coal tar pitch (molten)D Cobalt naphthenate in solvent naphthaA0.10.05 Coconut oil fatty acidC Coconut oil fatty acid methyl esterD Creosote (coal tar)A0.10.05 Creosote (wood)A0.10.05 Cresols (all isomers)2076A0.10.05 Cresylic acid, sodium salt solution A0.10.05 Crotonaldehyde 1143B Cycloheptane 2241(C) Cyclohexane1145C CyclohexanolC Cyclohexanone1915D Cyclohexyl acetate(B) Cyclohexylamine2357C 1,3- Cyclopentadiene dimer (molten)B Cyclopentane1146(C) Cyclopentene(B) p-Cymene2046C Decahydronaphthalene 1147(D) Decanoic acidC DeceneB Decyl acrylateA0.10.05 Decyl alcohol (all isomers)B DecylbenzeneD Diacetone alcohol1148D Dialkyl (C7-C13) phthalatesD DibutylamineC Dibutyl phthalateA0.10.05 Dichlorobenzenes (all isomers)1592B 1,1-Dichloroethane2362B Dichloroethyl ether1916B 1,6-DichlorohexaneB 2,2'-Dichloroisopropyl ether2490C Dichloromethane1593D 2,4-Dichlorophenol2021A0.10.05 2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution A0.10.05 2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution (70% or less)A0.10.05 2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution A0.10.05 1,1-DichlorpropaneB 1,2-Dichloropropane1279B 1,3-DichloropropaneB 1,3-Dichloropropene2047B Dichloropropene/B Dichloropropane mixtures 2,2-Dichloropropionic acidD Diethylamine1154C Diethylaminoethanol2686C Diethylbenzene2049C Diethylene glycol butyl ether acetate(D) Diethylene glycal dibutyl etherD Diethylene glycol ethyl ether acetate(D) Diethylene glycol methyl etherC Diethylene glycol methyl ether acetate(D) Diethylenetriamine2079D Di-(2-ethylhexyl) adipateD Di-(2-ethylhexyl) phosphoric acid1902C Diethyl phthalateC Diethyl sulphate 1594(B) Diglycidyl ether of bisphenol AB Diglycidyl ether of bisphenol FB Di-n-hexyl adipateB 1, 4-Dihydro-9, 10- dihydroxy anthracene, disodium salt solutionD Diisobutylamine 2361(C) Diisobutylene2050B Diisobutyl ketone1157D Diisobutyl phthalateB Diisodecyl phthalateD Diisononyl adipateD DiisopropanolamineC

Diisopropylamine 1158C Diisopropylbenzene (all isomers) A0.10.05 Diisopropyl naphthaleneD N, N-Dimethylacetamide solution (40% or less)D Dimethyl adipateB Dimethylamine solution (45% or less)1160C Dimethylamine solution (greater than 45% but not greater than 55%)1160C Dimethylamine solution (greater than 55% but not greater than 65%)1160C N, N-Dimethylcyclohexylamine2264C Dimethylethanolamine 2051D Dimethy(opanelformamide2265D Dimethyl glutarateC Dimethyl octanoic acid(C) Dimethyl phthalateC 2,2-Dimethylpropane-1,3- diol(D) Dimethyl succinateC Dinitrotoluene (molten)1600B Dinonyl phthalateD 1,4-Dioxane1165D Dipentene2052C DiphenylA0.10.05 Diphenyl/Diphenyl ether mixtures A0.10.05 Diphenyl ether A0.10.05 Diphenyl ether/Diphenyl phenyl ether mixture A0.10.05 Diphenylmethane diisocyanate 2489 (B) Diphenylol propane- epichlorohydrin resinsB Di-n-propylamine 2383C Dipropylene glycol methyl ether(D) Ditridecyl phthalateD Diundecyl phthalateD Dodecene (all isomers)(B) Dodecenyl succinic acid,(D) dipotassium salt solution Dodecyl alcoholB Dodecyl diphenyl etherB disulphonate solution Dodecyl phenolA0.10.05 Drilling brines, containing zinc salts(A)0.10.05 Epichlorohydrin 2023C Ethanolamine2491D 2-Ethoxyethanol1171D 2-Ethoxyethyl acetate1172C Ethyl acetate1173D Ethyl acetoacetate(D) Ethyl acrylate1917A0.10.05 Ethylamine 1036 (C) Ethylamine solutions (72% or less)2270(C) Ethyl amyl ketone2271C Ethylbenzene1175C N-Ethylbutylamine(C) Ethyl butyrate1180C Ethylcyclohexane(C) N-Ethylcyclohexylamine D Ethylene chlorohydrin1135C Ethylene cyanohydrin(D) Ethylenediamine1604C Ethylenediamine, tetraacetic acid, tetrasodium salt solutionD Ethylene dibromide1605B Ethylene dichloride1184B Ethylene glycolD Ethylene glycol acetate (D) Ethylene glycol butyl ether acetate(C) Ethylene glycol diacetateC Ethylene glycol isopropyl etherD Ethylene glycol methyl butyl etherD Ethylene glycol methyl ether 1188D Ethylene glycol methyl ether acetate1189D Ethylene glycol phenyl ether D Ethylene glycol phenyl ether/Diethylene glycol phenyl ether mixtureD Ethylene oxide/Propylene oxide mixture with an ethylene oxide content of not more than 30% in weight2983D 2-Ethylhexanoic acidD 2-Ethylhexyl acrylateB 2-Ethylhexylamine 2276B Ethylidene norborneneB Ethyl methacrylate2277(D) o-Ethylphenol(A)0.10.05 Ethyl propionate1195D 2-Ethy-3-propylacrolein(B) Ethyltoluene(B) Ferric chloride solutions2582C Ferric hydroxyethyl ethylenediamine triacetic acid, trisodium salt solutionD Ferric nitrate/Nitric acid solutionC Formaldehyde solutions1198C (45% or less)2209 FormamideD Formic acid1779D Fumaric adduct of rosin, water dispersionB Furfural1199C Furfuryl alcohol2874C Glutaraldehyde solutions (50% or less)D Glycidyl ester of C10 trialkylacetic acidB Glyoxal solution (40% or less)D Heptane (all isomers)1206(C) n-Heptanoic acid(D) Heptanol (all isomers)C Heptene (all isomers)C Heptyl acetate(B) Hexamethylenediamine adipate (50% in water)D Hexamethylenediamine solution 1783C Hexamethyleneimine 2493C Hexamethylenetetramine solutionsD Hexane (all isomers)1208(C) Hexanoic acidD Hexanol2282D Hexene (all isomers)(C) Hexyl acetate1233B Hydrochloric acid1789D Hydrogene peroxide solutions (over 8% but not2014C over 60%)2984 Hydrogen peroxide0 solutions (over 60% but not over 70%)2015C 2-Hydroxyethyl acrylateB N-(Hydroxyethyl) ethylenediamine triacetic acid, trisodium salt solutionD Isoamyl acetate1104C Isoamyl alcohol1105D Isobutyl acetate1213C Isobutyl acrylate2527B Isobutyl formate2393D Isobutyraldehyde2045C IsophoroneD Isophoronediamine2289D Isophorone diisocyanate2290B Isoprene1218C IsopropanolamineC Isopropylamine1221C Isopropylbenzene1918B Isopropylcyclohexane(C) Isopropyl

ether1159D Isovaleraldehyde2058C Lactic acidD Lactonitrile solution (80% or less)B Latex (ammonia inhibited)D Lauric acidB Maleic anhydride2215D Mercaptobenzothiazol, sodium salt solutionB Mesityl oxide1229D Metam sodium solutionA0.10.05 Methacrylic acid2531D Methacrylic resin in 1,2- dichloroethane solutionB Methacrylonitrile3079(B) 3-Methoxybutyl acetate2708D Methyl acetoacetateD Methyl acrylate1919B Methylamine solutions (42% or less)1235C Methylamyl acetate1233(C) Methylamyl alcohol2053(C) Methyl amyl ketone1110(C) Methyl butenol(D) Methyl tert-butyl ether2398D Methyl butyl ketoneD MethylbutynolD Methyl butyrate1237(C) Methylcyclohexane2296(C) Methylcyclopentadiene dimer(B) 2-Methyl-6-ethyl anilineC 2-Methyl-5-ethylpyridine2300(B) Methyl formate1243D Methyl heptyl ketone B Methyl isobutyl ketone 1245D Methyl methacrylate 1247D Methylnaphthalene A0.10.05 2-Methyl-1-pentene 2288C Methyl propyl ketone D 2-Methylpyridine2313B 4-Methylpyridine 2313B N-Methyl-2-pyrrolidoneB Methyl salicylate(B) alpha-Methylstyrene2303A0.10.05 Morpholine2054D Motor fuel anti-knock compounds 1649A0.10.05 Naphthalene (molten) 2304A0.10.05 Naphthalene sulphonic acidformaldehyde copolymer, sodium salt solutionD Naphthenic acids A0.10.05 Neodecanoic acidC Nitrating acid (mixture of sulphuric and nitric acids)1796(C) Nitric acid (less than 70%)2031C Nitric acid (70% and over)2031C2032 Nitrilotriacetic acid, trisodium salt solutionD Nitrobenzene1662B o-Nitrophenol (molten)1663B 1- or 2-Nitropropane 2608D Nitropropane (60%)/ Nitroethane (40%) mixture 1993D o- or p-Nitrotoluenes 1664C Nonane (all isomers) 1920(C) Nonanoic acid (all isomers)D NoneneB Nonyl alcohol (all isomers)C Nonyl methacrylate monomer(D) NonylphenolA0.10.05 Nonyl phenol poly (4-12) ethoxylatesB Octane (all isomers)1262(C) Octanoic acid (all isomers)D Octanol (all isomers)C Octene (all isomers)B n-Octyl acetateD Octyl aldehydes(B) Octvl nitrates (all isomers)A0.10.05 Olefin mixtures (C5-C7)C Olefin mixtures (C5-C15)B alpha-Olefins (C6-C18) mixturesB Oleic acidD Oleum1831C Palm nut oil fatty acid(C) Palm oil fatty acid methyl esterD Palm stearinD Paraldehyde1264C Pentachloroethane 1669B 1,3-Pentadiene C Pentaethylenehexamine D Pentane (all isomers) 1265(C) Pentanoic acidD Pentene (all isomers)C Perchloroethylene1897B Phenol2312B 1-Phenyl-1-xylyl ethane C Phosphoric acid1805D Phosphorus, yellow or white1381,A0.010.0052447 Phthalic anhydride (molten)2214C Pinene2368B Polyalkylene glycol butyl etherD Polyethylene polyamines2734,(C)2735 Polyferric sulphate solution(C) Polymethylene polyphenyl isocyanate2207D Polypropylene glycolD Potassium hydroxide solution1814C n-PropanolamineC beta-PropiolactoneD Propionaldehyde1275D Propionic acid1848D Propionic anhydride2496C Propionitrile2404C n-Propyl acetate1276D n-Propylamine1277C n-Propylbenzene2364(C) n-Propyl chloride B Propylene dimer(C) Propylene glycol ethyl ether(D) Propylene glycol methyl ether(D) Propylene glycol monoalkyl ether(D) Propylene oxide1280D Propylene tetramer2850B Propylene trimer2057B Pyridine1282D RosinB Rosin soap (disproportionated) solutionB Silicon tetrachlorideD Sodium aluminate solutionC Sodium borohydride (15% or less)/Sodium hydroxide solutionC Sodium carbonate solutionD Sodium dichromate solution (70% or less)C Sodium hydrogen sulphite solution (35% or less)2693D Sodium hydrosulphide/B Ammonium sulphide solution Sodium hydrosulphide solution (45% or less)2949B Sodium hydroxide solution1824D Sodium hypochlorite solution (15% or less)1791C Sodium nitrite solution1500B Sodium silicate solutionD Sodium sulphide solutionB Sodium sulphite

solutionC Sodium thiocyanate solution (56% or less)(B) Styrene monomer2055B SulpholaneD Sulphuric acid1830C Sulphuric acid, spent 1832C Tall oil (crude and distilled)B Tall oil fatty acid (resin acids less than 20%)(C) Tall oil soap (disproportionated) solutionB TallowD Tallow fatty acid(D) Tetrachloroethane 1702B Tetraethylenepentamine 2320D Tetrahydrofuran 2056D TetrahydronaphthaleneC 1,2,3,5-Tetramethylbenzene(C) Titanium tetrachloride1838D Toluene1294C Toluenediamine1709C Toluene diisocyanate2078C o-Toluidine1708C Tributyl phosphateB 1,2,4-Trichlorobenzene2321B 1,1,1-Trichloroethane2831B 1,1,2-TrichloroethaneB Trichloroethylene1710B 1,2,3-TrichloropropaneB 1,1,2-Trichloro-1,2,2- trifluoro-ethaneC Tricresyl phosphate (containing less than 1% ortho-isomer)A0.10.05 Tricresyl phosphate (containing 1% or more ortho-isomer)2574\*A0.10.05 TriethanolamineD Triethylamine1296C TriethylbenzeneA0.10.05 Triethylene glycol ethyl ether(D) Triethylene glycol methyl ether(D) Triethylenetetramine2259D Trimethylacetic acidD TrimethylamineC Trimethyl benzenes (all isomers)B Trimethylhexamethylene diamine (2,2,4- and 2, 4, 4-isomers)2327D Trimethylhexamethylene diisocyanate (2,2,4- and 2,4,4-isomers)2328B Trimethylol propane polyethoxylate D2,2,4-Trimethyl-1,3-pentane-diol-1-isobutyrateC Tripropylene glycol methyl ether(D) Trixylyl phosphate A0.10.05 Turpentine1299B Undecanoic acid(C) 1-UndecaneB Undecyl alcoholB Urea/Ammonium mono- and di-hydrogen phosphite/Potassium chloride solution(D) Urea/Ammonium nitrate solutionD Urea/Ammonium solution (containing aqua ammonia)C Urea/Ammonium phosphate solutionD n-Valeraldehyde2058D Vegetable oil, n.o.s., including:D Castor oil Coconut oil Corn oil Cottonseed oil Groundnut oil Linseed oil Olive oil Palm nut oil Palm oil Rape seed oil Rice bran oil Safflower oil Sesame oil Soya bean oil Sunflower oil Tung oil Vinyl acetate 1301C Vinyl ethyl ether 1302C Vinylidene chloride 1303B Vinyl neodecanoateB Vinyltoluene2618 A0.10.05 White spirit, low (15-20%) aromatic1300(B) Xylenes1307C Xylenol2261B \*UN no. refers to 10-35%.

†UN no. 1114 applies to benzene.

\*UN no. 2574 applies to tricresyl phosphate containing more than 3% ortho-isomer.

Pollution Category in brackets indicates that the substance has been provisionally included in this list and that further data are necessary in order to complete the evaluation of its environmental hazards, particularly in relation to living resources. Until the hazard evaluation is completed the Pollution Category assigned shall be used.

# THIRD SCHEDULE

List of other liquid substances

SubstanceUN no. Acetone1090 Acetonitrile1648 Alcoholic beverages, n.o.s. Alcohols (C13 and above) Aminoethyldiethanolamine/Aminoethylethanolamine solution 2-Amino-2-hydroxymethyl-1,3-propanediol solution (40% or less) tert-Amyl alcohol

1105 Apple juice Behenyl alcohol Benzene tricarboxylic acid, trioctyl ester n-Butyl alcohol1120 sec-Butyl alcohol1120 tert-Butyl alcohol1120 Butyl stearate Calcium carbonate slurry Calcium nitrate/Magnesium

nitrate/Potassium chloride solution Cetyl/Eicosyl methacrylate mixture Cetyl/Stearyl alcohol Chlorinated paraffins (C14-C17) (with 52% chlorine) Clay slurry Coal Slurry Dextrose solution Diethanolamine Diethyl ether 1155 Diethylene glycol Diethylene glycol butyl ether Diethylene glycol diethyl ether Diethylene glycol ethyl ether Diethylenetriamine pentaacetic acid, pentasodium salt solution Diheptyl phthalate Dihexyl phthalate Diisooctyl phthalate Dioctyl phthalate Dipropylene glycol Dodecane (all isomers) Dodecylbenzene Dodecyl methacrylate Dodecyl/Pentadecyl methacrylate mixture Drilling brines: Calcium bromide solution Calcium chloride solution Sodium chloride solution Ethyl alcohol1170 Ethylene carbonate Ethylene glycol butyl ether2369 Ethylene glycol tert-butyl ether Ethylene-vinyl acetate copolymer (emulsion) Fatty acid (saturated, C13 and above) Glucose solution Glycerine Glycerol polyalkoxylate Glyceryl triacetate Glycine, sodium salt solution Hexamethylene glycol Hexylene glycol Isobutyl alcohol1212 Isopropyl acetate1220 Isopropyl alcohol1219 Kaolin slurry Lard Latex: Carboxylated styrene-butadiene copolymer Styrene-butadiene rubber Lignin sulphonic acid, sodium salt solution Magnesium chloride solution Magnesium hydroxide slurry 3-methoxy-1-butanol Methyl acetate1231 Methyl alcohol1230 Methyl ethyl ketone 2-Methyl-2-hydroxy-3-butyne 3-Methyl-3-methoxy butanol 3-Methyl-3-methoxy butyl acetate Molasses Octyl decyl adipate alpha-Olefins (C13-C18) Olefins (C13 and above, all isomers) n-Paraffins (C10-C20) Paraffin wax Petrolatum Polyaluminium chloride solution Polybutene Polyethylene glycol dimethyl ether Polyethylene glycols Polypropylene glycol methyl ether Polysiloxane n-Propyl alcohol Propylene glycol Propylene-butylene copolymer Sodium aluminosilicate slurry Sodium chlorate solution (50% or less)2428 Sorbitol solution Surphur (molten)2448 Tetraethylene glycol Tridecane Tridecanoic acid Triethylene glycol Triethylene glycol butyl ether Triisopropanolamine Tripropylene glycol Urea formaldehyde resin solution Urea solution Vegetable protein solution (hydrolyzed) Water

Cargo Record Book for Ships Carrying Noxious Liquid Substances in

## FOURTH SCHEDULE

Form of Cargo Record Book

BulkName of shipDistin	octiv
e e	icti v
number or letters	
Gross	
tonnage	
Period	
from to	
Note:	
Every ship carrying noxious liquid substances in bulk shall be	
provided by the owner with a Cargo Record Book to record relevant	
cargo/ballast operations.	
Name of ship	
Distinctive	
number or letters	
Plan View of Cargo and Slop Tanks	

# (to be completed on board)

## INTRODUCTION

The following pages show a comprehensive list of items of cargo and ballast operations which are, when appropriate, to be recorded in the Cargo Record Book on a tank-to-tank basis in accordance with paragraph (2) of Regulation 9 of Annex II of the International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978 relating thereto (Marpol 73/78). The items have been grouped into operational sections, each of which is denoted by a letter.

When making entries in the Cargo Record Book, the date, operational code and item number shall be inserted in the appropriate columns and the required particulars shall be recorded chronologically in the blank spaces.

Each completed operation shall be signed for and dated by the officer or officers in charge and, if applicable, by a surveyor authorised by the competent authority of the State in which the ship is unloading.

Each completed page shall be countersigned by the master of the ship. Entries in the Cargo Record Book are required only for operations involving Categories A, B, C and D substances.

List of items to be recorded

Entries are required only for operations involving Categories A, B, C and D substances.

- (A) Loading of cargo
- 1. Place of loading.
- 2. Identify tank(s), name of substance(s) and category(ies).
- (B) Internal transfer of cargo
- 3. Name and category of cargo(es) transferred.
- 4. Identity of tanks:
- .1 from:
- .2 to:
- 5. Was (were) tank(s) in 4.1 emptied?
- 6. If not, quantity remaining in tank(s).
- (C) Unloading of cargo
- 7. Place of unloading.
- 8. Identity of tank(s) unloaded.
- 9. Was (were) tank(s) emptied?
- .1 If yes, confirm that the procedure for emptying and stripping has been performed in accordance with the ship's Procedures and Arrangements Manual (i.e. list, trim, stripping temperature).
- .2 If not, quantity remaining in tank(s).
- 10. Does the ship's Procedures and Arrangements Manual require a prewash with subsequent disposal to reception facilities?
- 11. Failure of pumping and/or stripping system:
- .1 time and nature of failure;
- .2 reasons for failure;
- .3 time when the system has been made operational.
- (D) Mandatory prewash in accordance with the ship's Procedures and Arrangements Manual
- 12. Identify tank(s), substance(s) and category(ies).
- 13. Washing method:
- .1 number of washing machines per tank;
- .2 duration of wash/washing cycles;

- .3 hot/cold wash.
- 14. Prewash slops transferred to:
- .1 reception facility in unloading port (identify port);
- .2 reception facility otherwise (identify port).
- (E) Cleaning of cargo tanks except mandatory prewash (other prewash operations, final wash, ventilation etc.)
- 15. State time, identify tank(s), substance(s) and category(ies) and state:
- .1 washing procedure used;
- .2 cleaning agent(s) (identify agent(s) and quantities);
- .3 dilution of cargo residues with water (state how much water used (only Category D substances));
- .4 ventilation procedure used (state number of fans used, duration of ventilation).
- 16. Tank washings transferred:
- .1 into the sea:
- .2 to reception facility (identify port);
- .3 to slops collecting tank (identify tank).
- (F) Discharge into the sea of tank washings
- 17. Identify tank(s):
- .1 Were tank washings discharged during cleaning of tank(s)? If so at what rate?
- .2 Were tank washing(s) discharged from a slops collecting tank? If so, state quantity and rate of discharge.
- 18. Time pumping commenced and stopped.
- 19. Ship's speed during discharge.
- (G) Ballasting of cargo tanks
- 20. Identity of tank(s) ballasted.
- 21. Time at start of ballasting.
- (H) Discharge of ballast water from cargo tanks
- 22. Identity of tank(s).
- 23. Discharge of ballast:
- .1 into the sea;
- .2 to reception facilities (identify port).
- 24. Time ballast discharge commenced and stopped.
- 25. Ship's speed during discharge.
- (I) Accidental or other exceptional discharge
- 26. Time of occurrence.
- 27. Approximate quantity, substance(s) and category(ies).
- 28. Circumstances of discharge or escape and general remarks.
- (J) Control by authorised surveyors
- 29. Identify port.
- 30. Identify tank(s), substance(s), category(ies) discharged ashore.
- 31. Have tank(s), pump(s), and piping system(s) been emptied?
- 32. Has a prewash in accordance with the ship's Procedures and

Arrangements Manual been carried out?

- 33. Have tank washings resulting from the prewash been discharged ashore and is the tank empty?
- 34. An exemption has been granted from mandatory prewash.
- 35. Reasons for exemption.
- 36. Name and signature of authorised surveyor.
- 37. Organization, company, government agency for which surveyor works.
- (K) Additional operational procedures and remarks

Name of

ship.....

Distinctive number or letters
Cargo/Ballast Operations
DateCode (letter)Item (number)Record of operations/signature of officer in charge/name of and signature of authorised surveyor Signature of master
FIFTH SCHEDULE

Form of Certificate
International Pollution Prevention
Certificate for the Carriage of
Noxious Liquid Substances in Bulk
Issued under the provisions of the Intern
Prevention of Pollution from Ships, 1973

Issued under the provisions of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, as amended, (hereinafter referred to as "the Convention") under the authority of the Government of Ireland by the Minister for the Marine.

Name of ShipDistinctive number or lettersPort of registryGross tonnage

# THIS IS TO CERTIFY:

- 1. That the ship has been surveyed in accordance with the provisions of Regulation 10 of Annex II of the Convention.
- 2. That the survey showed that the structure, equipment, systems, fitting, arrangements and material of the ship and the condition thereof are in all respects satisfactory and that the ship complies with the applicable requirements of Annex II of the Convention.
- 3. That the ship has been provided with a manual in accordance with the standards for procedures and arrangements as called for by Regulation 5, 5A and 8 of Annex II of the Convention and that the arrangements and equipment of the ship prescribed in the manual are in all respects satisfactory and comply with the applicable requirements of the said standards.
- 4. That the ship is suitable for the carriage in bulk of the following noxious liquid substances, provided that all relevant operational provisions of Annex II of the Convention are observed.

Noxious liquid substancesConditions of carriage (tank numbers, etc.)

*Continued on additional signed and dated sheets *Delete as necessary.
This certificate is valid, until
subject to surveys in accordance with Regulation 10 of Annex II of the Convention.Issued at
(Place of issue of
Certificate)
Date of
issue19
(Signature of duly authorised
official issuing the Certificate)(Official Stamp)

Endorsement for Annual and Intermediate Surveys THIS IS TO CERTIFY that at a survey required by regulation 10 of Annex II of the Convention the ship was found to comply with the relevant provisions of the regulation:

Annual	
survey:Signed	
(Signature of duly authorised official)(Official	
Stamp)Place	
Date	Annual*/Intermediate*
SurveySigned	(Signature
of duly authorised official)(Official	
Stamp)Place	
Date	Annual*/intermediate*
SurveySigned	
(Signature of duly authorised official)(Official	
Stamp)Place	
Date	Annual*/Intermediate*
SurveySigned	
(Signature of duly authorised official)(Official	
Stamp)Place	
Date	
*Delete as appropriate.	

GIVEN under my Official Seal, this 18th day of February, 1994.

DAVID ANDREWS, Minister for the Marine.

# EXPLANATORY NOTE.

These Regulations (S.I. No. 46 of 1994) give effect to Annex II of the International Convention for the Prevention of Pollution from Ships adopted by the International Maritime Organisation on 2 November, 1973 and as amended by its Protocol adopted on 17 February, 1978, and as further amended by resolutions adopted by the Marine Environment Protection Committee (MEPC) of the International Maritime Organisation.

The Regulations apply to all Irish ships carrying noxious liquid substances in bulk wherever they may be and to all other ships carrying noxious liquid substances in bulk when they are in the territorial waters of the State.

Noxious liquid substances are divided into four categories A, B, C and D according to the severity of the hazard which they present to human health and the marine environment, category A presenting the worst hazard and category D the least. Under the Regulations discharges into the sea of these substances or mixtures of them are prohibited except when the discharges are made under specified conditions. These conditions vary according to the degree of hazard posed to the marine environment. The most stringent controls apply in two recognised "special areas", namely the Baltic Sea and the Black Sea.

The Regulations require ships to follow specified procedures when washing cargo tanks in accordance with the category of the substance

and the geographical location. They also provide for adequate facilities at ports, terminals or repair ports for the reception of residues or mixtures of noxious liquid substances.

Under the Regulations ships are required to be surveyed, to carry an International Pollution Prevention Certificate for the Carriage of Noxious Liquid Substances in Bulk, and to be maintained in accordance with that Certificate. Ships are also required to carry a Cargo Record Book in which to record operations involving cargoes of noxious liquid substances.

Section 29 of the Sea Pollution Act, 1991 provides for penalties for breaches of these Regulations.