



**CCS Rule Change Notice For:
GUIDELINES FOR DEVELOPMENT AND SURVEY OF
THE INVENTORY OF HAZARDOUS MATERIALS OF
SHIPS**

Effective from: 1 Jan. 2020

Beijing

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Chapter 1 GENERAL

1.1 Objective and application

1.1.3 Ships to which Regulation (EU) No 1257/2013 applies or ships applying for CCS class notation “Green passport” GPR (EU) or GPR (EU)+ are to comply with relevant requirements of Regulation (EU) No 1257/2013 (see Appendix 1 to references of the Guidelines for details) in addition to the requirements of the Guidelines.

1.3 Controls of ships’ Hazardous Materials

1.3.1 The new installation of materials listed in Table A of Annex 1 on ships is to be prohibited. However, the use of such hazardous materials may be permitted provided they are present in concentrations not above the threshold levels specified for each “homogeneous material” and such hazardous materials are to be listed in the Inventory of Hazardous Materials (IHM). The use of new installations containing hydrochlorofluorocarbons (HCFCs) may be permitted before 1 January 2020, except ships flying the flag of EU members, ships applying for CCS class notation “GPR (EU) / GPR (EU)+” or ships applying for the issuance of Document of Compliance of the Inventory of Hazardous Materials in compliance with Regulation (EU) No 1257/2013.

1.3.2 The use of materials listed in Table B of Annex 1 may be permitted, however, such materials are to be identified and listed in IHM if they are present in concentration above the threshold levels specified for each “homogeneous material”.

Chapter 2 GENERAL INTRODUCTION OF SURVEY AND CERTIFICATION

2.1 General requirements

2.1.1 Surveys specified in the Guidelines include initial survey, renewal survey, additional survey and final survey.

(1) Initial survey: An initial survey is to be conducted before the ship is put in service or when applying for the first time the issuance of the International Certificate on Inventory of Hazardous Materials/Document of Compliance of the Inventory of Hazardous Materials or when applying the assignment of CCS class notation “Green Passport” GPR, GPR+, GPR (EU) or GPR (EU)+.

(2) Renewal survey: In order to remain the validity of International Certificate on Inventory of Hazardous Materials/IHM Document of Compliance or CCS class notation “GPR”, “GPR+”,

“GPR (EU)” or GPR (EU)+, a renewal survey is to be conducted before the date of expiry.

2.4 Assignment of class notation “GPR” or “GPR (EU)” and surveys

2.4.1 CCS is to conduct the surveys taking into account the requirements for initial survey for new ships or existing ships as specified in the Guidelines at the request of shipowner and to assign class notation “Green Passport” (GPR or GPR (EU)) to ships satisfactorily surveyed and complying with the relevant requirements of Chapter 8, PART EIGHT of CCS Rules for Classification of Sea-going Steel Ships.

2.4.2 Ships with class notation “GPR” or “ GPR (EU)” are to be surveyed according to the relevant requirements of Chapter 6, PART ONE of CCS Rules for Classification of Sea-going Steel Ships so as to remain the validity of the class notation.

2.5 Assignment of class notation “GPR+” or “GPR (EU)+” and surveys

2.5.1 Paragraph 2.4 also applies to the assignment of class notation “GPR+” or “GPR (EU)+” and surveys.

2.5.2 In addition, the sampling tests shall be conducted in accordance with the supplementary requirements described in 3.6.8 or 4.4.10 of this guidelines to further verify the Inventory of Hazardous Materials of Ships.

2.6 Disclaimer

The assignment of class notation “GPR”, “GPR+”, “GPR (EU)” or “GPR (EU)+”, the issuance and/or endorsement of certificate/document of compliance undertaken by CCS is carried out on the basis that the designer, shipyard, supplier and shipowner fulfill their respective responsibilities. The party who makes any information available to CCS is to be responsible for the truthfulness, timeliness and completeness of such information. The services provided by CCS do not mean to diminish any liability of any party mentioned above or absolve it therefrom.

Chapter 3 DEVELOPMENT OF THE INVENTORY OF HAZARDOUS

MATERIALS FOR NEW SHIPS AND SURVEYS

3.1 General requirements

3.1.2 During the development of the Inventory (Part I), the presence of materials or the presence of materials above the threshold values listed in Table A of Annex 1 is to be checked and confirmed (new installations containing hydrochlorofluorocarbons (HCFCs) may be permitted before 1 January 2020), except ships flying the flag of EU members, ships applying for CCS class notation “GPR (EU) / GPR (EU)+” or ships applying for the issuance of Document of Compliance of the Inventory of Hazardous Materials in compliance with Regulation (EU) No 1257/2013). If such materials are used not above the threshold values, their quantity and location are to be listed in Part I of the Inventory.

3.6 Initial survey for new ships

3.6.8 Supplementary requirements for the assignment of CCS class notation “GPR+” or “GPR (EU)+” to new ships

For ships applying for the assignment of class notation “GPR+” or “GPR (EU)+”, the surveyor may request the shipyard to carry out random testing and verification on the ship for products with the declaration that no hazardous material is contained or the concentration of hazardous materials is lower than the threshold level, taking into consideration the hazardous materials listed in Table A and Table B in addition to the surveys specified above.

Chapter 4 DEVELOPMENT OF THE INVENTORY OF HAZARDOUS

MATERIALS FOR EXISTING SHIPS AND SURVEYS

4.4 Initial survey for existing ships

4.4.10 Supplementary requirements for the assignment of CCS class notation “GPR+” or “GPR (EU)+” to existing ships

For ships applying for the assignment of class notation “GPR+” or “GPR (EU)+”, the surveyor may request the shipowner to carry out random testing and verification on the ship for products with the declaration that no hazardous material is contained or the concentration of hazardous materials is lower than the threshold level, taking into consideration the hazardous materials listed in Table A and Table B in addition to the surveys specified above.

Sampling check organization/hazardous materials testing organization is to be the organization recognized or accepted by CCS. The sampling check organization is to develop visual and sampling check plan which covers the hazardous materials listed in Table A and Table B of Annex 1. Sampling checkpoints are to cover the whole ship according to Annex 5 “Distribution of Common Hazardous Materials on Ships” and may be adjusted taking into account the complexity of the specific type of ship. In general, the total amount of samples selected for check is not to be less than 100 except that the shipowner or supplier can provide the testing report issued by the testing organization recognized or accepted by CCS for the products (or the same batch of products) to be sampling checked within the scope of visual and sampling check plan.

The surveyor is to review and approve the visual and sampling check plan and confirm the final check report with the reference to Annex 5 “Distribution of Common Hazardous Materials on Ships”, taking into account the examination of documents and field survey.

If any non-compliant hazardous materials listed in Table A are found, the inspection organization is to cooperate with the shipowner in the development of the scope and plan for the replacement of products. After the shipowner replace the products thoroughly and the completion of the replacement is confirmed by the inspection organization, the checking declaration clarifying that the replacement is completed in compliance with the requirements. The surveyor is to review and confirm the declaration.

If any non-compliant hazardous materials listed in Table B are found, the inspection organization is to coordinate with the shipowner in the update of the Inventory of Hazardous Materials for the review and confirmation of the surveyor.

4.6 Renewal survey for existing ships

4.6.1 Prior to the renewal survey, a request for the renewal survey is to be submitted by the shipowner to CCS along with the ship data listed in paragraph 3.5.1 above, the latest version of part I of the Inventory of Hazardous Materials, MD/SDoC, Asbestos-free Declaration and other supporting documents (if any) regarding any change, replacement or significant repair of structure, equipment, systems, fittings, arrangements and material since the last survey. In addition, the shipowner or management company is also to provide an overall Asbestos-free Declaration of the ship, clarifying that no asbestos is contained in materials newly installed on the ship since the last annual/periodical survey according to SOLAS regulation II-1/3-5.

Annex 1 Items to be Listed in the Inventory of Hazardous Materials

Table A Hazardous materials to be prohibited

| No. | Materials | | Inventory | | | Threshold value |
|-----|---|---|-----------|---------|----------|---|
| | | | Part I | Part II | Part III | |
| A-1 | Asbestos | | × | | | 0.1% ^① |
| A-2 | Polychlorinated biphenyls (PCBs) | | × | | | 50 mg/kg |
| A-3 | Ozone Depleting Substances | CFC | × | | | no threshold value ^② |
| | | Halons | × | | | |
| | | Other fully halogenated CFCs | × | | | |
| | | Carbon tetrachloride | × | | | |
| | | 1,1,1-Trichloroethane (Methyl chloroform) | × | | | |
| | | Hydrochlorofluorocarbons | × | | | |
| | | Hydrobromofluorocarbons | × | | | |
| | | Methyl bromide | × | | | |
| A-4 | Anti-fouling systems containing organotin compounds as a biocide | | × | | | 2,500 mg total tin/kg ^③ |
| A-5 | Perfluorooctane sulfonic acid (PFOS) ^④ and its derivatives (CAS No: 1763-23-1) | | × | | | Concentrations of PFOS <i>above</i> 10 mg/kg (0.001% by weight) when it occurs in substances or in preparations or Concentrations of PFOS in semi-finished products or articles, or parts thereof <i>equal to</i> |

- ① In accordance with regulation 4 of the Convention, for all ships, new installation of materials which contain asbestos shall be prohibited. According to the UN recommendation "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)" adopted by the United Nations Economic and Social Council's Sub-Committee of Experts on the Globally Harmonized System of Classification and Labelling of Chemicals (UNSCGHS), the UN'S Sub-Committee of Experts, in 2002 (published in 2003), carcinogenic mixtures classified as Category 1A (including asbestos mixtures) under the GHS are required to be labelled as carcinogenic if the ratio is more than 0.1%. However, if 1% is applied, this threshold value should be recorded in the Inventory and, if available, the Material Declaration and can be applied not later than five years after the entry into force of the Convention. The threshold value of 0.1% need not be retroactively applied to those Inventories and Material Declarations.
- ② "No threshold value" is in accordance with the Montreal Protocol for reporting ODS. Unintentional trace contaminants should not be listed in the Material Declarations and in the Inventory.
- ③ This threshold value is based on the *Guidelines for brief sampling of anti-fouling systems on ships* (resolution MEPC.104(49)).
- ④ For ships flying the flag of EU members, ships applying for CCS class notation "GPR (EU) / GPR (EU)+-" or ships applying for the issuance of Document of Compliance of the Inventory of Hazardous Materials in compliance with Regulation (EU) No 1257/2013 only.

| | | | | | | |
|--|--|--|--|--|--|---|
| | | | | | | <p><i>or above</i> than 0.1% by weight calculated with reference to the mass of structurally or micro-structurally distinct parts that contain PFOS or</p> <p>For textiles or other coated materials, if the amount of PFOS is <i>equal to or above</i> than 1 µg/m² of the coated material.</p> |
|--|--|--|--|--|--|---|

Table B Hazardous materials to be controlled

| No. | Materials | Inventory | | | Threshold level |
|------|---|-----------|---------|----------|---------------------------------|
| | | Part I | Part II | Part III | |
| B-1 | Cadmium and cadmium compounds | × | | | 100 mg/kg ^① |
| B-2 | Hexavalent chromium and hexavalent chromium compounds | × | | | 1,000 mg/kg ^① |
| B-3 | Lead and lead compounds | × | | | 1,000 mg/kg ^① |
| B-4 | Mercury and mercury compounds | × | | | 1,000 mg/kg ^① |
| B-5 | Polybrominated biphenyl (PBBs) | × | | | 50 mg/kg ^② |
| B-6 | Polybrominated diphenyl ethers (PBDEs) | × | | | 1,000 mg/kg ^① |
| B-7 | Polychlorinated naphthalenes (more than 3 chlorine atoms) | × | | | 50 mg/kg ^③ |
| B-8 | Radioactive substances | × | | | no threshold value ^④ |
| B-9 | Certain shortchain chlorinated paraffins (Alkanes, C10-C13, chloro) | × | | | 1% ^⑤ |
| B-10 | Brominated flame retardant (HBCDD) ^⑥ | × | | | |

① The Organization set this as the threshold value referring to the Restriction of Hazardous Substances (RoHS Directive 2011/65/EU, Annex II).

② The Organization set 50 mg/kg as the threshold value referring to the concentration level at which wastes, substances and articles containing, consisting of or contaminated with PBB are characterized as hazardous under the Basel Convention.

③ The Organization set 50 mg/kg as the threshold value referring to the concentration level at which wastes, substances and articles containing, consisting of or contaminated with PCN are characterized as hazardous under the Basel Convention.

④ All radioactive sources should be included in the Material Declaration and in the Inventory. *Radioactive source* means radioactive material permanently sealed in a capsule or closely bonded and in a solid form that is used as a source of radiation. This includes consumer products and industrial gauges with radioactive materials. Examples are listed in appendix 10.

⑤ The Organization set 1% as the threshold value referring to the EU legislation that restricts Chlorinated Paraffins from being placed on the market for use as substances or as constituents of other substances or preparations in concentrations higher than 1% (EU Regulation 1907/2006, Annex XVII Entry 42 and Regulation 519/2012).

⑥ For ships flying the flag of EU members, ships applying for CCS class notation “GPR (EU) / GPR (EU)+” or ships applying for the issuance of Document of Compliance of the Inventory of Hazardous Materials in compliance with Regulation (EU) No 1257/2013 only.

**Annex 2 Standard Format of the Inventory of Hazardous Materials
and Format of Document of Compliance of the Inventory of Hazardous
Materials**

Appendix 3 Format of Document of Compliance of the Inventory of Hazardous Materials
(Form: SHK(EU)) is replaced as follows:

**STATEMENT OF COMPLIANCE ON INVENTORY OF
HAZARDOUS MATERIALS(EUROPEAN UNION)**

(Note: This Statement of Compliance shall be supplemented by Part I of the Inventory of Hazardous Materials)
Issued under the provisions of Regulation(EU) No.1257/2013
(hereinafter referred to as "the Regulation")

by China Classification Society

Particulars of the Ship

| | |
|--|--|
| Name of Ship | |
| Distinctive number or letters | |
| Port of Registry | |
| Gross tonnage | |
| IMO number | |
| Name and address of shipowner | |
| IMO registered owner identification number | |
| IMO company identification number | |
| Date of Construction | |

Particulars of Part I of the Inventory of Hazardous Materials

Part I of the Inventory of Hazardous Materials identification/verification number: _____

Note: Part I of the Inventory of Hazardous Materials, as required by Article 12 paragraph 1 of the Regulation is an essential part of the Statement of Compliance and must always accompany the Statement of Compliance. Part I of the Inventory of Hazardous Materials should be compiled on the basis of the standard format shown in the guidelines developed by the International Maritime Organization, supplemented, where applicable, by guidelines on aspects specific to the Regulation, such as the EMSA's Best Practice Guidance on the Inventory of Hazardous Materials.

THIS IS TO CERTIFY:

1. that the ship has been surveyed in accordance with Article 12 paragraph 6 of the Regulation; and
2. that the survey shows that Part I of the Inventory of Hazardous Materials fully complies with the applicable requirements of the Regulation.

Completion date of survey on which this statement of compliance is based: _____

This statement of compliance is valid until _____



Issued at _____

Issued on _____

CHINA CLASSIFICATION SOCIETY

ENDORSEMENT TO EXTEND THE STATEMENT OF COMPLIANCE

The ship complies with the relevant provisions of the Regulation, and this statement of compliance shall,
in accordance with article 12 of the Regulation, be accepted as valid until
(dd/mm/yyyy): _____

Place: _____
Date: _____ Surveyor to **CHINA CLASSIFICATION SOCIETY**

ENDORSEMENT FOR ADDITIONAL SURVEY*

At an additional survey by analogy of Article 8 paragraph 6 of the Regulation, the ship was found to comply with the relevant provisions of the Regulation.

Place: _____
Date: _____ Surveyor to **CHINA CLASSIFICATION SOCIETY**

* This page of the endorsement at survey shall be reproduced and added to the statement of compliance as considered necessary by the Administration.

Annex 3 Form of Material Declaration

<Date of declaration>

| | |
|------|--|
| Date | |
|------|--|

<MD ID number>

| | |
|-------------|--|
| MD- ID- No. | |
|-------------|--|

<Supplier (respondent) information>

| | |
|------------------|--|
| Company name | |
| Division name | |
| Address | |
| Contact person | |
| Telephone number | |
| Fax number | |
| E-mail address | |
| SDoC ID no.: | |

<Other information>

| | |
|----------|--|
| Remark 1 | |
| Remark 2 | |
| Remark 3 | |

<Product information>

| Product name | Product number | Delivered unit | | | Product information |
|--------------|----------------|----------------|------|--|---------------------|
| | | Amount | Unit | | |
| | | | | | |

<Materials information>

This materials information shows the amount of hazardous materials contained in

| |
|------|
| Unit |
| 1 |

 (unit: piece, kg, m, m², m³, etc.) of the product.

| Table | Material name | | Threshold value | Present above threshold value | If yes, material mass | | If yes, information on where it is used |
|-------------------------|----------------------------------|----------------------------------|--------------------|-------------------------------|-----------------------|------|---|
| | | | | Yes / No | Mass | Unit | |
| Table A | Asbestos | Asbestos | 0.1% ^① | | | | |
| | Polychlorinated biphenyls (PCBs) | Polychlorinated biphenyls (PCBs) | 50 mg/kg | | | | |
| | Ozone depleting substance | Chlorofluorocarbon (CFCs) | no threshold value | | | | |
| | | Halons | | | | | |
| | | Other fully halogenated CFCs | | | | | |
| | | Carbon tetrachloride | | | | | |
| | | 1,1,1-Trichloroethane | | | | | |
| Hydrochlorofluorocarbon | | | | | | | |

① In accordance with regulation 4 of the Convention, for all ships, new installation of materials which contain asbestos shall be prohibited. According to the UN recommendation "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)" adopted by the United Nations Economic and Social Council's Sub-Committee of Experts on the Globally Harmonized System of Classification and Labelling of Chemicals (UNSCGHS), the UN'S Sub-Committee of Experts, in 2002 (published in 2003), carcinogenic mixtures classified as Category 1A (including asbestos mixtures) under the GHS are required to be labelled as carcinogenic if the ratio is more than 0.1%. However, if 1% is applied, this threshold value should be recorded in the Inventory and, if available, the Material Declaration and can be applied not later than five years after the entry into force of the Convention. The threshold value of 0.1% need not be retroactively applied to those Inventories and Material Declarations.

| | | | | | | |
|--|--|-------------------------|---|--|--|--|
| | | ns | | | | |
| | | Hydrobromofluorocarbons | | | | |
| | | Methyl bromide | | | | |
| | | Bromochloromethane | | | | |
| | Anti-fouling systems containing organotin compounds as a biocide | | 2,500 mg total tin/kg | | | |
| | Perfluorooctane sulfonic acid (PFOS)* and its derivatives | | Concentrations of PFOS <i>above</i> 10 mg/kg (0.001% by weight) when it occurs in substances or in preparations or Concentrations of PFOS in semi-finished products or articles, or parts thereof <i>equal to or above</i> than 0.1% by weight calculated with reference to the mass of structurally or micro-structurally distinct parts that contain PFOS or For textiles or other coated materials, if the amount of PFOS is <i>equal to or above</i> than 1 µg/m ² of the coated material. | | | |

| Table | Material name | Threshold value | Present above threshold value | If yes, material mass | | If yes, information on where it is used |
|---------|---|-----------------|-------------------------------|-----------------------|------|---|
| | | | Yes / No | Mass | Unit | |
| Table B | Cadmium and cadmium compounds | 100 mg/kg | | | | |
| | Hexavalent chromium and hexavalent chromium compounds | 1,000 mg/kg | | | | |
| | Lead and lead compounds | 1,000 mg/kg | | | | |
| | Mercury and mercury compounds | 1,000 mg/kg | | | | |
| | Polybrominated biphenyl (PBBs) | 50 mg/kg | | | | |
| | Polybrominated dephenyl | 1,000 mg/kg | | | | |

| | | | | | | |
|--|---|-----------------------|--|--|--|--|
| | ethers (PBDEs) | | | | | |
| | Polychloronaphthalenes (Cl >= 3) | 50 mg/kg | | | | |
| | Radioactive substances | no threshold value | | | | |
| | Certain shortchain chlorinated paraffins | 1% | | | | |
| | Brominated flame retardant (HBCDD)* | | | | | |

*Note: For ships flying the flag of EU members, ships applying for class notation “GPR (EU)/ GPR (EU)+” or ships applying for the issuance of Document of Compliance of the Inventory of Hazardous Materials in compliance with Regulation (EU) No 1257/2013.