

**RULES
FOR THE CLASSIFICATION OF
SHIPS**

*Part 27 – CHEMICAL TANKERS
January 2016*

*Amendments No. 2
January 2020*

CROATIAN REGISTER OF SHIPPING

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By the decision of the General Committee of Croatian Register of Shipping,

Amendments No. 2 to the
RULES FOR THE CLASSIFICATION OF SHIPS
Part 27 – CHEMICAL TANKERS

have been adopted on 20th December 2019 and shall enter into force on 1st January 2020

INTRODUCTORY NOTES

These amendments shall be read together with the requirements in the Rules for the Classification of Ships, Part 27 – Chemical tankers, edition 2016, as amended by Amendments No. 1, edition January 2017.

Table 1 contains review of amendments, where items changed or added in relating to previous edition are given, with short description of each modification or addition. All major changes throughout the text are shaded.

This Part of the Rules includes the requirements of the following international Organisations:

International Maritime Organization (IMO)

Conventions: International Convention for the Safety of Life at Sea, 1974 (SOLAS 74) and all subsequent amendments up to and including MSC.365(93)

Protocol of 1988 relating to the International Convention for the Safety of Life at Sea, 1974, as amended (SOLAS PROT (amended) 1988)

Codes: International Code for the Construction and Equipment of Ship's Carrying Dangerous Chemicals in Bulk resolution MSC.4(48)/MEPC.19(22) and all subsequent amendments up to and including resolution **MSC.440(99)/MEPC.302(72)**

Resolutions: A.567(14) and **A.1122(30)**;
MSC.35(63), MSC.62(67), MSC.235(82), MSC.236(82), MSC.325(90), MSC.340(91), MSC.369(93) and **MSC.440(99)**;
MEPC.148(54), MEPC.225(64), MEPC.250(66) and **MEPC.302(72)**

Circulars: MSC/Circ.314, MSC/Circ.394, MSC/Circ.406/Rev.1, MSC/Circ.553, MSC/Circ.585, MSC/Circ.670, MSC/Circ.677, MSC/Circ.731, MSC/Circ.879, MSC/Circ.879/Corr.1, MSC/Circ.929, MSC/Circ.1009, MSC/Circ.1095, MSC/Circ.1165, MSC.1/Circ.1220, MSC.1/Circ.1237, MSC.1/Circ.1241, MSC.1/Circ.1267, MSC.1/Circ.1269, MSC.1/Circ.1270, MSC.1/Circ.1270/Corr.1, MSC.1/Circ.1312, MSC.1/Circ.1312/Corr.1, MSC.1/Circ.1316, MSC.1/Circ.1317, MSC.1/Circ.1323, MSC.1/Circ.1324, MSC.1/Circ.1384, MSC.1/Circ.1385, MSC.1/Circ.1386, MSC.1/Circ.1459, MSC.1/Circ.1501 and MSC.1/Circ.1504;
MSC-MEPC.2/Circ.7, MSC-MEPC.2/Circ.14, **MSC-MEPC.2/Circ.16** and **MSC-MEPC.2/Circ.17**;
MSC-MEPC.5/Circ.10 and **MSC-MEPC.5/Circ.11**;
MEPC.1/Circ.512/**Rev.1**, MEPC.1/Circ.856, MEPC.1/Circ.856/Corr.1 and **MEPC.1/Circ.886**;
MEPC.2/Circular;
BLG.1/Circ.25

International Association of Classification Societies (IACS)

Unified requirements (UR):
F20 (2015, rev.7)

Unified Interpretations:
CC1 (2007, rev. 2), CC2 (2007, rev. 1), CC3 (2007, rev. 1), CC4 (2002), CC5 (2008), CC6 (2011) and CC7 (2016);
SC 201 (2006, rev. 1), SC 253(2016) and **SC 290 (2018)**.

Recommendations:
110 (2010, rev.1).

TABLE 1 – REVIEW OF AMENDMENTS

This review comprises amendments in relation to the Rules for the Classification of Ships, Part 27 – Chemical tankers, issued 2016, as amended by Amendments No. 1, edition January 2017.

<i>ITEM</i>	<i>DESCRIPTION OF THE AMENDMENTS</i>
1 GENERAL	
item 1.2.10	has been amended in order to include provisions of IMO MEPC.1/Circ.512/Rev.1 and MEPC.1/Circ.886
item 1.2.11	has been amended in order to include provisions of IMO MSC-MEPC.2/Circ.17
item 1.2.12	has been amended in order to include provisions of IMO Resolution A.1122(30)
2 SHIP SURVIVAL CAPABILITY AND LOCATION OF CARGO TANKS	
item 2.9.1	has been amended in order to include provisions of IMO MSC-MEPC.5/Circ.11
item 2.9.3	has been amended in order to include provisions of IACS UI SC290
15 SPECIAL REQUIREMENTS	
item 15.13.3	has been amended in order to include provisions of IMO MSC-MEPC.2/Circ.16

1 GENERAL

■ Head 1.2 – **APPLICATION**, item 1.2.10 is changed, and should read as follows:

1.2.10 For the guidelines for the provisional assessment of liquid substances transported in bulk see MEPC.1/Circ.512/Rev.1. See also MEPC.1/Circ.857 and MEPC.1/Circ.886.

■ Head 1.2 – **APPLICATION**, item 1.2.11 is changed, and should read as follows:

1.2.11 For the carriage of blends of bio-fuels and MARPOL, Annex I cargoes see MSC-MEPC.2/Circ.17 – “2019 Guidelines for the carriage of biofuels and MARPOL Annex I cargoes”.

■ Head 1.2 – **APPLICATION**, item 1.2.12 is changed, and should read as follows:

1.2.12 Blending of the bulk liquid cargoes and production processes during sea voyages is prohibited. It means that:

- .1 The physical blending of bulk liquid cargoes during sea voyages is prohibited. Physical blending refers to the process whereby the ship's cargo pumps and pipelines are used to internally circulate two or more different cargoes with the intent to achieve a cargo with a new product designation. This prohibition does not preclude the master from undertaking cargo transfers for the safety of the ship or protection of the marine environment.
- .2 The prohibition in paragraph 1 does not apply to the blending of products for use in the search and exploitation of seabed mineral resources on board ships used to facilitate such operations.
- .3 Any production process on board a ship during sea voyages is prohibited. Production processes refer to any deliberate operation whereby a chemical reaction between a ship's cargo and any other substance or cargo takes place.
- .4 The prohibition in paragraph 3 does not apply to the production processes of cargoes for use in the search and exploitation of seabed mineral resources on board ships used to facilitate such operations, refer to the Code for the Transport and Handling of Hazardous and Noxious Liquid Substances in Bulk on Offshore Support Vessels - OSV Chemical Code (resolution A.1122(30)).

2 SHIP SURVIVAL CAPABILITY AND LOCATION OF CARGO TANKS

■ Head 2.9 - **SURVIVAL REQUIREMENTS**, item 2.9.1 is changed, and should read as follows:

2.9.1 Ships subject to this Part of the Rules shall be capable of surviving the assumed damage specified in 2.5 to the standard provided in 2.8 in a condition of stable equilibrium and shall satisfy the criteria as specified in 2.9.2 and 2.9.3. **See MSC-MEPC.5/Circ.11.**

■ Head 2.9 - **SURVIVAL REQUIREMENTS**, item 2.9.3 is changed, and should read as follows:

2.9.3 At final equilibrium after flooding:

- .1 the righting-lever curve shall have a minimum range of 20° beyond the position of equilibrium in association with a maximum residual righting lever of at least 0.1 m within the 20° range; the area under the curve within this range shall not be less than 0.0175 m radians. Unprotected openings shall not be immersed within this range unless the space concerned is assumed to be flooded. Within this range, the immersion of any of the openings listed in 2.9.2.1 and other openings capable of being closed weathertight may be permitted. See IACS UI CC 7; and
- .2 the emergency source of power shall be capable of operating. **See IACS UI SC 290.**

15 SPECIAL REQUIREMENTS

■ Head 15.13 - **CARGOES PROTECTED BY ADDITIVES**, item 15.13.3 is changed, and should read as follows:

15.13.3 Care shall be taken to ensure that these cargoes are sufficiently protected to prevent deleterious chemical change at all times during the voyage. Ships carrying such cargoes shall be provided with a certificate of protection from the manufacturer, and kept during the voyage, specifying:

- .1 the name and amount of additive present;
- .2 whether the additive is oxygen - dependent, refer to MSC-MEPC.2/Circ.14 on Products requiring oxygen-dependent inhibitors;
- .3 date additive was put in the product and duration of effectiveness;
- .4 any temperature limitations qualifying the additives' effective lifetime; and
- .5 the action to be taken shall the length of voyage exceed the effective lifetime of the additives.

For example of a certificate see MSC-MEPC.2/Circ.16.