

Survey of discharge regulations according to MARPOL Convention

I.

Annex I (oil)

TABLE I OIL TANKERS OF ALL SIZES Control of discharge of oil from cargo tank areas including cargo pump room	
<p>Within special areas OR outside special areas, within 50 nautical miles (nm) from the nearest land</p>	<p>ANY DISCHARGE IS PROHIBITED, except clean or segregated ballast</p>
<p>Outside special areas, more than 50 nm from the nearest land</p>	<p>ANY DISCHARGE IS PROHIBITED, except clean or segregated ballast, or when:</p> <ol style="list-style-type: none"> 1. the tanker is proceeding en route, and 2. the instantaneous rate of discharge of oil does not exceed 30 liters/nm, and 3. the total quantity of oil discharged into the sea does not exceed <ul style="list-style-type: none"> - 1/15,000 (for existing tankers) and/ - 1/30,000 (for new tankers) of the total quantity of the cargo which was carried on the previous voyage, and 4. the tanker has in operation a monitoring and control system for the discharge of oil, and slop tank arrangements as required by Regulation 15.

- the North Sea and Baltic Sea are special areas as defined in Annex I of the MARPOL Convention

TABLE II
OIL TANKERS OF ALL SIZES
OTHER SHIPS OF 400 GRT AND ABOVE
Control of discharge of oil from machinery spaces

<p>Within special areas</p>	<p>ANY DISCHARGE IS PROHIBITED, except when</p> <ol style="list-style-type: none"> 1. the ship is proceeding en route, and 2. the oil content of the effluent without dilution does not exceed 15 ppm, and 3. the ship has in operation oil filtering equipment with automatic 15 ppm stopping device, and 4. bilge water is not mixed with oil cargo residue or cargo pump room bilges (on oil tankers)
<p>Outside special areas</p>	<p>ANY DISCHARGE IS PROHIBITED, except when</p> <ol style="list-style-type: none"> 1. the ship is proceeding en route 2. the oil content of the effluent is less than 15 ppm*, and 3. the ship has in operation an oil discharge monitoring and control system, oily-water separating or filtering equipment or other installation required by Regulation 16, and 4. bilge water is not mixed with oil cargo residue or cargo pump room bilges (on oil tankers) <p>Note: Oily mixtures which are not mixed with oil cargo residue or cargo pump room bilges, and where the oil content of the effluent without dilution does not exceed 15 ppm may be discharged outside special areas without any additional restrictions.</p>

* Until 6 July 1998, less severe regulations apply to vessels built before July 1993 (an oil content of the effluent below 100 ppm is accepted).

TABLE III SHIPS BELOW 400 GRT OTHER THAN OIL TANKERS Control of discharge of oil from machinery spaces	
Within special areas	ANY DISCHARGE IS PROHIBITED, except when the oil content without dilution does not exceed 15 ppm
Outside special areas	ANY DISCHARGE IS PROHIBITED, except when the Flag State considers that all the following conditions are satisfied as far as practicable and reasonable: <ol style="list-style-type: none">1. the ship is proceeding en route, and2. the oil content of the effluent is less than 15 ppm*, and3. the ship has in operation suitable equipment as required by Regulation 16 Note: Oily mixtures where the oil content of the effluent without dilution does not exceed 15 ppm may be discharged without any additional restrictions.

II.

Annex II (noxious liquid substances in bulk)

1. General

Division of noxious substances into 4 categories:

Category	Hazard to marine resources or human health	Harm to amenities or other legitimate uses of the sea
A	Major hazard	Serious harm
B	Hazard	Harm
C	Minor hazard	Minor harm
D	Recognizable hazard	Minimal harm

1. Discharge of cargo residues

Group	In all areas	
A, B, and C	<ul style="list-style-type: none"> - ship is proceeding en route - minimum speed 7 knots (self-propelled) or 4 knots (not self-propelled) - at least 12 nautical miles from the nearest land - discharge below the waterline - minimum water depth 25 metres 	
and	outside special areas	within special areas
A	Maximum concentration of tank washings 0.1 percent by weight	Maximum concentration of tank washings 0.05 percent by weight
B	<ul style="list-style-type: none"> - per tank max. 1 cubic metre or 1/3,000 of the tank capacity in cubic metres - concentration of the substance in the wake astern of the ship max. 1 ppm 	<ul style="list-style-type: none"> - the tank has been precleaned, and the washings have been discharged to a reception facility - concentration of the substance in the wake astern of the ship max. 1 ppm
C	<ul style="list-style-type: none"> - per tank max. 3 cubic metres or 1/1,000 of the tank capacity in cubic metres - concentration of the substance in the wake astern of the ship max. 10 ppm 	<ul style="list-style-type: none"> - per tank max. 1 cubic metre or 1/3,000 of the tank capacity in cubic metres - concentration of the substance in the wake astern of the ship max. 1 ppm
D	<p style="text-align: center;">in all areas</p> <ul style="list-style-type: none"> - ship is proceeding en route - minimum speed 7 or 4 knots - at least 12 nautical miles from the nearest land - max. one part of the substance in ten parts of water 	

1. Special Areas

- Baltic Sea
- Black Sea
- Antarctica

III.

Annex IV (sewage from ships)

1. General

Annex IV has not yet entered into force.

BUT: in the German territorial waters, it has largely entered into force on the basis of

- 8th Ordinance for the Amendment of the Helsinki Convention on the Protection of the Marine Environment of the Baltic Sea Area
- Ordinance on the Prevention of Pollution of the North Sea by Sewage from Ships.

1. Discharge regulations

Sewage		
From treatment plants	Comminuted and disinfected	Untreated
<ul style="list-style-type: none">- treatment plant has been approved by the Administration- no visible floating solids or discoloration of surrounding water	<ul style="list-style-type: none">- treatment plant has been approved by the Administration- at least 4 nautical miles from the nearest land	<ul style="list-style-type: none">- retained in holding tanks- at least 12 nautical miles from the nearest land- discharge rate approved by the Administration- ship is proceeding en route- minimum speed 4 knots

IV.

Annex V (garbage from ships)

Disposal of garbage:

Within special areas			Outside special areas		
Plastics	Other garbage	Food wastes	Plastics	Dunnage, lining and packing materials which will float	Food wastes and other garbage
Prohibited	Prohibited	At least 12 nautical miles from the nearest land	Prohibited	At least 25 nautical miles from the nearest land	At least 12 nautical miles from the nearest land <u>But:</u> 3 nautical miles if passed through a comminuter or grinder

Special areas:

- North Sea
- Baltic Sea
- Mediterranean Sea
- Black Sea
- Red Sea
- Gulfs area
- Antarctica
- Caribbean