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# REVISED MARPOL ANNEX V GARBAGE

Effective internationally from  
01 January 2013



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# MARPOL Annex V – Garbage

- Regulations for the prevention of pollution by garbage from ships adopted by Resolution MEPC.201(62)



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# Key Documents

- 2012 Guidelines for the Implementation of MARPOL Annex V adopted by Resolution MEPC.219(63)
- 2012 Guidelines for the development of garbage management plans adopted by Resolution MEPC.220(63)



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# Overview of Changes

- Annex V now **Prohibits the discharge of all garbage types, unless explicitly permitted**
- New and modified definitions
- Introduction of new garbage categories
- Introduction of “en Route”
- New classification criteria for Cargo Residues
- Reporting of accidental loss or discharge of fishing gear
- Garbage Management Plan required for:
  - Vessels over 100 GT, (reduced from 400 GT)



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# New Definitions

## 4 New garbage types:

- Animal Carcasses - Regulation 1.1
- Cooking Oil – Regulation 1.3
- Fishing Gear – Regulation 1.6
- Cleaning Agents and Additives in wash water (Operational Waste) Harmful to the Marine Environment (HME) - Regulation 1.12



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# Key Definition Changes

- **Reg 1.12 - OPERATIONAL WASTES**

means all solid wastes (including slurries) not covered by other Annexes that are collected on board during normal maintenance or operation of a ship, or used for cargo stowage and handling.



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# Key Definition Changes

Operational wastes also includes cleaning agents and additives contained in cargo hold and external wash water.

Operational waste does not include grey water, bilge water, or other similar discharges essential to the operation of a ship, taking into account the guidelines developed by the Organisation.



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# Examples of “Other Similar Discharges”

- Section 1.7.3 of the Annex V Guidelines provides the full, but unlimited list:
  - Boiler/economizer blowdown
  - Freshwater lay-up
  - Machinery wastewater
  - Pool, spa water and recreational waters





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# Key Definitions Changes

- **Reg 1.2 - CARGO RESIDUES**

means the remnants of any cargo which are not covered by other Annexes to the present Convention and which remain on the deck or in holds following loading or unloading, including loading and unloading excess or spillage, whether in wet or dry condition or entrained in wash water but does not include cargo dust remaining on the deck after sweeping or dust on the external surfaces of the ship.

**Simplified overview of the discharge provisions of the revised  
MARPOL Annex V (resolution MEPC.201(62)) which will enter into force on  
1 January 2013**

(for more detailed guidance regarding the respective discharge requirements please refer to the text of  
MARPOL Annex V or to the 2012 Guidelines for the Implementation of MARPOL Annex V)

Type of garbage	Ships outside special areas	Ships within special areas	Offshore platforms (more than 12 nm from land) and all ships within 500 m of such platforms
Food waste comminuted or ground	Discharge permitted ≥3 nm from the nearest land, en route and as far as practicable	Discharge permitted ≥12 nm from the nearest land, en route and as far as practicable	Discharge permitted
Food waste not comminuted or ground	Discharge permitted ≥12 nm from the nearest land, en route and as far as practicable	Discharge prohibited	Discharge prohibited
Cargo residues <sup>1</sup> not contained in wash water	Discharge permitted ≥12 nm from the nearest land, en route and as far as practicable	Discharge prohibited	Discharge prohibited
Cargo residues <sup>1</sup> contained in wash water		Discharge permitted ≥12 nm from the nearest land, en route, as far as practicable and subject to two additional conditions <sup>2</sup>	Discharge prohibited
Cleaning agents and additives <sup>1</sup> contained in cargo hold wash water		Discharge permitted ≥12 nm from the nearest land, en route, as far as practicable and subject to two additional conditions <sup>2</sup>	Discharge prohibited
Cleaning agents and additives <sup>1</sup> in deck and external surfaces wash water	Discharge permitted	Discharge permitted	Discharge prohibited
Carcasses of animals carried on board as cargo and which died during the voyage		Discharge prohibited	Discharge prohibited
All other garbage including plastics, synthetic ropes, fishing gear, plastic garbage bags, incinerator ashes, clinkers, cooking oil, floating dunnage, lining and packing materials, paper, rags, glass, metal, bottles, crockery and similar refuse	Discharge prohibited	Discharge prohibited	Discharge prohibited
Mixed garbage	When garbage is mixed with or contaminated by other substances prohibited from discharge or having different discharge requirements, the more stringent requirements shall apply		

<sup>1</sup> These substances must not be harmful to the marine environment.

<sup>2</sup> According to regulation 6.1.2 of MARPOL Annex V the discharge shall only be allowed if: (a) both the port of departure and the next port of destination are within the special area and the ship will not transit outside the special area between these ports (regulation 6.1.2.2); and (b) if no adequate reception facilities are available at those ports (regulation 6.1.2.3).



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# Examples of Discharges

**EN ROUTE** – introduced for discharge inside & outside SA

**FOOD WASTES** – Regulations 4.1.1 & 2 and 6.1.1

**ANIMAL CARCASSES** – Regulations 4.1.4  
Guidelines, Section 2.12 - Treatment of Animal Carcasses

**CLEANING AGENTS & ADDITIVES (Non HME)** – Reg 4.2/6.2  
Guidelines, Section 1.7 - Application paragraphs 1.7.4 – 1.7.6

**CARGO RESIDUES (Non HME)** – Regulations 4.1.3 and 6.1.2  
Guidelines, Section 3 - Management of Cargo Residues of Solid Bulk Cargos



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# Cargo Residues

- Cargo residues shall not contain any substances classified as Harmful to the Marine Environment (HME). MARPOL Annex V, Regulations 4.1.3 & 6.1.2.
- Cargo residues under MARPOL Annex V are from Solid Bulk Cargoes (SBC). The International Maritime Solid Bulk Cargoes Code (IMSBC Code) has approx. 399 cargoes.



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# Discharge of Cargo Residues

	<u>Outside Special Area</u>	<u>Inside Special Area</u>
<b>Cargo Residue not entrained in wash water – non HME</b>	Yes, as per regulation 4.1.3	<b>no</b>
<b>Cargo Residue entrained in wash water – non HME</b>	Yes, as per regulation 4.1.3	<b>Conditions as set out in regulation 6.1.2</b>
<b>Cargo Residue not entrained in wash water – HME</b>	<b>no</b>	<b>no</b>
<b>Cargo Residue entrained in wash water – HME</b>	<b>no</b>	<b>no</b>



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# Regulation 6.1.2

- Conditions set in regulation 6.1.2 are:
  - Cargo residues, cleaning agents or additives contained in hold washing water Non-HME;
  - Both the port of departure and the next port of destination are within the special area and the ship will not transit outside the special area between those ports; and
  - No adequate reception facilities are available at those ports.



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# Cargo Residues

- Solid Bulk Cargoes (SBC) should be classified and declared by the shipper as to whether they are HME or not.
- Such declaration should be included in the information required in section 4.2 of the IMSBC Code



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# Harmful to the Marine Environment (HME)

- Cargo residues are considered HME, if they are residues of solid bulk substances classified accordingly to the United Nations Globally Harmonized Systems for Classification and Labelling of Chemicals (UN GHS) meeting the following parameters:





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# Harmful to the Marine Environment (HME)

- 1) Acute Aquatic Toxicity Category 1; and/or
- 2) Chronic Aquatic Toxicity Category 1 or 2; and/or
- 3) Carcinogenicity Category 1A or 1B combined with not being rapidly degradable and having high bioaccumulation; and/or
- 4) Mutagenicity Category 1A or 1B combined with not being rapidly degradable and having high bioaccumulation; and/or
- 5) Reproductive Toxicity Category 1A or 1B combined with not being rapidly degradable and having high bioaccumulation; and/or
- 6) Specific Target Organ Toxicity Repeated Exposure Category 1B combined with not being rapidly degradable and having high bioaccumulation; and/or
- 7) Solid bulk cargoes containing or consisting of synthetic polymers, rubber, plastic feedstock pellets (this includes materials that are shredded, milled, chopped or macerated or similar materials).



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# Cargo Residues

- MEPC.1/Circ. 791 sets transitional arrangements until Dec 2014 to allow:
  - Shipper should notify the competent authorities of the port State of loading and unloading of the basis of provisional classification
  - Shipper declares whether cargo is HME or not making every effort to ensure that its classified against all 7 criteria.
  - Until 31 Dec 2014 Administration should accept provisional classification against 1,2 and 7 of the criteria if the shipper is unable to acquire adequate and reliable data on 3,4,5 and 6.
- ❖ **As of the 1 January 2015, shippers classification of SBC should be made using all 7 criteria.**



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# Cargo Residues

- MEPC.1/Circ. 810 sets out transitional arrangements outside special areas until 31 Dec 2015 to allow:
  - The discharge of cargo hold washwater from holds previously containing SBC classified as HME, providing:
  - Master determines no adequate PRF at receiving terminal or next port of call;
  - Ship is en route and as far as practicable from the nearest land, but not less than 12NM;
  - Before washing, holds are swept clean as far as practicable, and this residue discharged to a PRF; and
  - Filters are used in the bilge wells to collect any remaining solid particles to minimize solid residue discharge.



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# Cargo Residues

- Identification of such Cargoes: Work is still on going at the IMO in relation to the classification of SBC and potential integration into the IMSBC Code.



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# Garbage Record Book

## RECORD OF GARBAGE DISCHARGES

Ship's name \_\_\_\_\_  
Distinctive number or letters \_\_\_\_\_  
IMO No. \_\_\_\_\_

Garbage categories:

- Plastics
- Food wastes
- Domestic wastes (e.g. paper products, rags, glass, metal, bottles, crockery, etc.)
- Cooking oil
- Incinerator ashes
- Operational wastes
- Cargo residues
- Animal carcass(es)
- Fishing gear

Date/ time	Position of the ship/remarks (e.g. accidental loss)	Category	Estimated amount discharged or incinerated	To sea	To reception facility	Incineration	Certification/ signature

Master's signature: \_\_\_\_\_ Date: \_\_\_\_\_

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# Garbage Management Plan

- The GMP requirement has changed it now applies to Every ship of 100gt and above, and every ship which is certified to carry 15 or more persons. Reg 10.2
- Garbage Management Plans need to reflect the new garbage categories and how the waste streams are handled.



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# THANKS FOR LISTENING