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AMENDMENT 1
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**Ships and marine technology —
Marine environment protection
— Management and handling of
shipboard garbage**

**AMENDMENT 1: Updates to classification
of garbage**

*Navires et technologie marine — Protection de l'environnement
marin — Gestion et manutention des déchets à bord du navire*

AMENDEMENT 1: Mises à jour de la classification des déchets

ISO 21070:2017/Amd 1:2022

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This document was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*, Subcommittee SC 2, *Marine environment protection*.

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Ships and marine technology — Marine environment protection — Management and handling of shipboard garbage

AMENDMENT 1: Updates to classification of garbage

4.2, Table 1

Replace the original table with the following one:

Table 1 — Categories and garbage types

Type	MARPOL Annex V Category	Description
Part 1 – For all garbage other than cargo residue		
Plastics	A	All garbage that consists of or includes plastic in any form, including synthetic ropes and fishing nets. Shall be retained onboard and disposed of ashore.
Food wastes	B	
Domestic waste	C	
Glass	C	NOTE Can require separation by colours.
Paper products	C	
Medical waste	C	Reference is made to the Guidelines for the Implementation of MARPOL, 2012, Annex V, section 5.2.5.
Wood	C	
Metal	C	
Cooking oil	D	
Incinerator ashes	E	NOTE Incinerator ash from plastic products can contain toxic or heavy metal.
Operational wastes	F	<p>Examples of (non-hazardous) waste are: dunnage, shoring, pallets, lining, transit and packing materials, plywood, paper, cardboard, wire, plastic wrapping, and steel strapping.</p> <p>NOTE 1 Some regional or national legislations can require even further separate identification and handling.</p> <p>NOTE 2 Operational waste can be considered hazardous. Examples of hazardous waste are: batteries, fluorescent lamps, garbage contaminated with hazardous waste, and any other waste that is considered hazardous waste. This kind of waste is handled and treated separately.</p> <p>NOTE 3 Oily waste and rags contaminated with oily waste are listed in MARPOL, Annex I.</p> <p>NOTE 4 Medical waste is a separate item.</p>
Animal carcasses	G	
SOURCE: IMO Resolution MEPC.277(70).		

Table 1 (continued)

Type	MARPOL Annex V Category	Description
Fishing gear	H	
E-waste	I	Examples include computers, laptops, keyboards, cell phones, portable communications devices.
Part 2 – For all cargo residues		
Cargo residues (non HME)	J	See 4.4. NOTE Dry cargo residues can include deck or cargo hold sweepings and wash water containing such residues.
Cargo residues (HME)	K	See 4.4. Solid bulk cargoes should be assessed by the shipper as to whether or not they are harmful to the marine environment, and may include: <ul style="list-style-type: none"> — acute aquatic toxicity; — chronic aquatic toxicity; — carcinogenicity; — mutagenicity.
SOURCE: IMO Resolution MEPC.277(70).		

4.2

Add the following Note after the new Table 1:

NOTE Inexpensive and readily available standard label software and a colour printer can be useful for creating labels/markings aboard ships, for collection and storage containers. Coloured signage/labels can be affixed to appropriate portable containers, such as drums, boxing or bagging for retention and storage aboard. Such a colour coding system is useful for easy identification when off-loading at a reception facility. Further, such a labelling scheme facilitates efficient segregation of wastes, by type, for further handling and recycling by port reception facility operators. Additional or supplemental labels can be affixed to those types of waste requiring special handling such as hazardous, quarantine, or medical wastes and incinerator ash for ships equipped with such equipment.

Bibliography

Add the following reference [3] to the Bibliography:

- [3] IMO Resolution MEPC.277(70), 2016

