

# IMDG Code, Amendment 40-20

## Summary of Key Changes

Amendment 40-20 of the International Maritime Dangerous Goods Code (IMDG Code) contains multiple changes. This amendment harmonized with the 21<sup>st</sup> edition of the UN Model regulations

These notes are intended to provide an overview of the changes being introduced and should not be regarded as a complete listing of amendments. Reference must be made to the text of Amendment 40-20 for full details of all the amendments and applicable requirements.

### PART 1 – GENERAL PROVISIONS, DEFINITIONS AND TRAINING

- Updated definitions in 1.2.1 including:
  - New definition for *Dose Rate* – definition for *radiation level* deleted
  - *GHS* amended to reflect the 8<sup>th</sup> edition of the Globally Harmonized System of Classification and Labeling of Chemicals
  - *Manual of Tests and Criteria* amended to reflect the 7<sup>th</sup> edition
- Updated references in 1.3.1.7 – Related Codes and publications which may be appropriate for function specific training
- Class 1, Division 6.1 (explosives) added to Table 1.4.1 Indicative list of high consequence dangerous goods
  - Class 6.2 entry amended to include medical waste of Category A (UN3549)
- Updated provisions in 1.5 including:
  - Updated IAEA standards
  - Term radiation level amended to dose rate.
  - 1.5.1.5.2 amended to “Excepted packages shall be subject to the relevant provisions of all other parts of the Code.”

### PART 2 – CLASSIFICATION

- Updates to 2.1 including:
  - 2.1.3.4.2 Note amended to reflect ISO 14451-2.
  - 2.1.3.5.2 Assignments of fireworks amended
- Updates to 2.2 including:
  - 2.2.1.3 amended to include chemicals under pressure
  - 2.2.2 Note amended to include “For chemicals under pressure of UN NOS. 3500 to 3505, see also special provision 362”.
  - 2.2.2.2.2 Note amended to reflect ISO 10156:2017
- Updated list of currently assigned organic peroxides in packagings in 2.5.3.2.4.
- Updates to 2.6 including:
  - *Rickettsiae* removed from list of micro-organism examples in 2.6.3.1.1.
  - UN3549 added to listed of UN numbers assigned to Class 6.2, Infectious Substances in 2.6.3.2.1.
  - UN3549 added to 2.6.3.2.3.9.
  - 2.6.3.5.1 broken out into two additional paragraphs (2.6.3.5.1.1 and 2.6.3.5.1.2) to list assignments for Category A and Category B infectious substances.
- Updates to 2.7 including:
  - Radionuclides added to Table 2.7.2.2.1.
  - 2.7.2.3.1.3 Deleted.
  - New SCO-III classification criteria included for radioactive materials.
  - Changes for the conditions required for a material to be classified as UN2910 in 2.7.2.4.1.4.
- Updates to OECD Test Guideline references in 2.8.3.2.
- Updates and additions to the list of UN numbers and proper shipping names under Class 9 in 2.9.

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### **PART 3 – DANGEROUS GOODS LIST, SPECIAL PROVISIONS AND EXCEPTIONS**

- Several minor updates to Part 3.
- Update to 3.1.2.9 describing marine pollutant requirements for “not otherwise specified” (N.O.S. entries)
- UN1289, UN1431, UN3206, and UN3274 added to Segregation group Alkalis (SGG18).
- Explosive articles with packing instruction P130 now have LP101 listed as well.
- Several updates to special provisions themselves including the addition and deletion of some.
- SP392 has been added to applicable compressed gas entries.
- SP390 is new and listed under UN3481 and UN3091.
- SP76 is deleted and in some instances replaced with SP976 which is similar to SP76 in principal.
- Addition of SP975 providing provisions for medical waste, category A.

### **PART 4 – PACKING AND TANK PROVISIONS**

- Note under 4.1.1 revised to include UN2814 and UN2900 and, to include packing instructions P622 and LB622 for class 6.2.
- Addition of paragraph 4.1.1.3.1 which allows IBCs and large packagings to conform to one or more successfully tested design type and bear more than one mark.
- Addition of subsection 4.1.1.21 limiting when a large packagings or IBC can be filled or discharged on board.
- Updated P003 to include a new packing provision (PP96 for UN2037).
- Updated P200 with the current ISO 24431 standard for gas cylinders – inspection at time of filling.
- Updated P200 Table 2: Liquified Gases and Dissolved Gases.
- Updated P206 including the addition of a new packing provision (PP97 for fire extinguishing agents assigned to UN3500).
- Addition of a new instruction in P404.
- Addition of new packing instructions P622 and LP622 for waste UN3549.
- Addition of new instruction in P903.
- Updated IBC520 to include new materials under UN3119 Organic Peroxide Type F, Liquid, Temperature Controlled
- Conditions for the transport of unpackaged SCO-III amended under 4.1.9.2.4.5.

### **PART 5 – CONSIGNMENT PROCEDURES**

- Updates to procedures for shipments of SCO-III under 5.1.5.1.2 and 5.1.5.3.
- Lithium battery mark dimensions reduced under 5.2.1.10.2.
- Updated provisions for labels under 5.2.2.2.1.1.2.
- Updated placarding provisions for class 7 under 5.3.1.1.5.1.
- Updates to information required to supplement the proper shipping name under 5.4.1.4.3, including new information required for lithium cells or batteries offered under special provision 376.
- Addition of new documentation requirement for portable tanks carrying refrigerated liquified gases under 5.4.1.5.18.
- Updated additional provisions for fumigated cargo transport units under 5.5.2.5.
- Updates to provisions for packages and cargo transport units carrying substances which present a risk of asphyxiation when used for cooling/conditioning under 5.5.3.
- Addition of section 5.5.4 for dangerous goods in equipment in use or intended for use during transport. It contains the conditions under which dangerous goods (e.g. lithium batteries, fuel cell cartridges) contained in equipment such as data loggers and cargo tracking devices, attached to or placed in packages, overpacks, containers or load compartments are not subject to the IMDG Code.

### **PART 6 – CONSTRUCTION AND TESTING OF PACKAGINGS, INTERMEDIATE BULK CONTAINERS (IBCs), LARGE PACKAGINGS, PORTABLE TANKS, MULTIPLE -ELEMENT GAS CONTAINERS (MEGCS) AND ROAD TANK VEHICLES**

- Mostly minor changes in Part 6



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- Addition of subsection 6.1.3.13 Provides instructions for when more than one tested packaging design type mark is on IBCs and large packagings.
- Update of packaging instructions for Aluminum drums under 6.1.4.2.
- Updated and addition of ISO standards for UN pressure receptacles under 6.2.2.
- Addition of 6.4.23.2.1 for application for approval of SCO-III shipments.

### **PART 7 – PROVISIONS CONCERNING TRANSPORT OPERATIONS**

- Some minor changes in Part 7
- Stowage provisions in 7.1.4.2 now include infectious substances of UN2814, UN2900, and UN3549.
- All terms of radiation level have been changes to dose rate in 7.1.4.5.
- Updated segregations codes and descriptions in 7.2.8.
- Updates to provisions for incidents involving radioactive material in 7.8.4.

### **ADDITIONAL COMMENTS**

- Appendix A – List of Generic and N.O.S. Proper Shipping Names contains a revised list of generic and N.O.S. proper shipping names
- Index has also been revised to add the new entries to the DGL

### **Notes:**

- Next edition to IMDG Code, Amendment 40-20, to be published by International Maritime Organization (IMO) early 2021.
- Compliance with Amdt 40-20 optional from 1 January 2021, and mandatory as of 1 June 2022
  - Note the enforcement date is delayed until mid-year 2022
- This document is to be used as a reference only; it does not contain the complete changes to the IMDG Code from Amendment 38-18

### **Reference:**

- Circular Letter No. 4135 – Amendments To The International Maritime Dangerous Goods (IMDG) Code (Secretariat)