



SOFTWARE PRODUCTS SERVICES

49 CFR Updates Dangerous Goods Symposium September 6, 2017

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49 CFR Transitional Exceptions

January 7, 2013 HM-215L Final Rule

- Harmonized general marking requirements for non-bulk packaging with International standards already in place
 - At least 12 mm UN/ID on packages with net mass > 30 kg or L
 - At least 6 mm UN/ID on packages with net mass > 5 kg and up to 30 kg or L
 - Of an adequate size for smaller packages
 - Voluntary compliance January 1, 2013
 - Mandatory compliance January 1, 2017

HM-215N Highlights

Incorporation by Reference

- Authorized the use of:
 - 2017–2018 Edition of the ICAO Technical Instructions
 - Amendment 38–16 of the IMDG Code (2016 Edition)
 - 6th Revised Edition of the UN Manual of Tests and Criteria
 - 6th Revised Edition of the Globally Harmonized System of Classification and Labelling of Chemicals
 - Various updates to Canadian Transportation of Dangerous Goods (TDG) Regulations
 - Updating and adding various ISO standards

HM-215N Highlights

New HMT Entries

- New Proper Shipping Names
 - UN0510 Rocket Motors, Division 1.4C
 - UN3527 Polyester resin kit, solid base material
 - Three new UN numbers for engines which have been separated from their previous assignment to UN3166. The new UN numbers are UN3528, UN3529, and UN3530 and classification is based on the type of fuel (flammable liquid powered, flammable gas powered, or those powered by a substance that is only an environmentally hazardous substance)
 - Four new polymerizing substances shipping names (temperature control forbidden on aircraft)
 - Four new UN numbers for polymerizing substances

HM-215N Highlights

Polymerizing Substances

- Four new UN numbers in Division 4.1 for items not currently appropriately described under an existing “stabilized” entry (UN3531, UN3532, UN3533, and UN3534)
- Stabilization methods and operational controls for existing entries that require stabilization to prevent polymerization
- Materials that meet the criteria for inclusion in Classes 1–8, including combustible liquids are excluded from the definition of polymerizing substances



HM-215N Highlights

Polymerizing Substances

- HM-215N varied from the international changes for these materials in two main ways
 - The HMR maintains a minimum SAPT temperature of 50 °C for portable tanks before temperature control is required versus the internationally adopted 45 °C
 - The HMR requires polymerizing substances intended to be transported in portable tanks or IBC's to undergo the Test Series E heating under confinement testing from the UN Manual of Tests and Criteria (or other approved test) to ensure suitability for transport under confinement



HM-215N Highlights

Marine Pollutant List

5 Additional entries added to Marine Pollutant list

- Hypochlorite Solutions
- Isoprene, stabilized
- N-Methylaniline
- Methylcyclohexane
- Tripropylene



HM-215N Highlights

U.S.-Canada Regulatory Cooperation Council (RCC) Amendments

- Recognition of cylinders manufactured in accordance with Canadian regulations. Authorizes the transportation of CTC, CRC, BTC, and TC cylinders that have a corresponding DOT specification cylinder prescribed in the HMR to, from, or within the U.S.
- Amended 49 CFR 171.12(a)(1) to authorize the use of a Transport Canada equivalency certificate for road or rail transportation of a hazardous material shipment. Consistent with existing authorizations to utilize the TDG Regulations for transportation from Canada to the United States, the authorization to use a Transport Canada equivalency certificate only applies until the shipment's initial transportation ends.

HM-215N Highlights

Lithium Batteries

- Adopted a new lithium battery label in place of the existing Class 9 label
- Existing Class 9 labels can be used through December 31, 2018



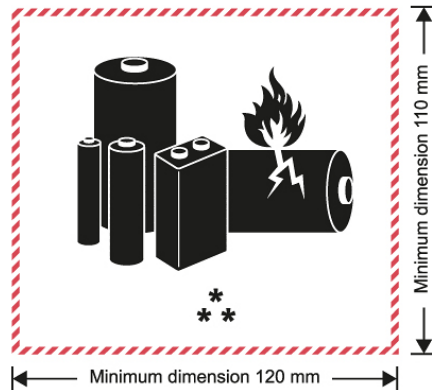
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HM-215N Highlights

Lithium Batteries

- Amended the existing marking requirements for small lithium battery shipments in 49CFR 173.185(c) to incorporate new lithium battery mark for all modes
- The “*” must be replaced by the appropriate UN number(s) and the “**” must be replaced by a telephone number for additional information



HM-215N Highlights

Lithium Batteries

- UN3480 Lithium Ion Batteries
- UN3481 Lithium Ion Batteries Contained in/Packed with Equipment
- UN3090 Lithium Metal Batteries
- UN3091 Lithium Metal Batteries Contained in/Packed with Equipment



* Where a package contains lithium cells or batteries assigned to different UN numbers, all applicable UN numbers must be indicated on one or more marks

HM-215N Highlights

Lithium Batteries

- Removed the documentation requirement in 49 CFR 173.185(c)(3)(iii) for shipments of small lithium cells and batteries
- Requires the lithium battery mark be applied to each package containing small lithium cells or batteries contained in equipment when there are more than four lithium cells or two lithium batteries installed in the equipment or where there are more than two packages in the consignment

This package contains lithium ion cells or batteries contained in equipment. This package must be handled with care. A flammable hazard may exist if the package is damaged. Special procedures must be followed if the package is damaged including inspection and repacking if necessary. Damaged cells or batteries should not be transported except under appropriate conditions. For additional information contact:

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Upcoming 49 CFR Final Rules

Lithium Batteries

Enhanced Safety Provisions for Lithium Batteries Transported by Aircraft

- Originally planned Final Rule end of 2016 – Delayed by regulatory freeze
- Aligns 49 CFR with 2015/2016 ICAO and IATA Updates
- Final Rule expected September 2017
 - Prohibits the transport of stand alone lithium ion cells/batteries as cargo on passenger aircraft
 - Limits stand alone lithium ion cells/batteries to 30% state-of-charge (SoC) for air transport
 - Limits shippers to one (1) package per consignment of lithium batteries shipped under the provisions for “small” or “excepted” cells and batteries

Questions?

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