



RID/ADR 2025

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2025 Amendments

Part 1: General Provisions



Chapter 1.1: Scope and applicability

- **1.1.3.1 (a) (ii) (new)**: Exemption of the carriage of waste by private individuals
 - Intended initially for their personal or domestic use or for their leisure or sporting activities
 - Original package not mandatory
- **1.1.4.4.5**: Identification of the road vehicle and the dangerous goods carried on it (identification of the goods on each vehicle, see 5.4.0.1)

Chapter 1.2: Definitions

- Differentiation between *degree of filling* and *filling ratio*
 - The previous definition of *degree of filling* becomes the definition of *filling ratio* and applies to gases
 - New definition of degree of filling applies to solids and liquids (ratio of the volume of the substance contained to the volume of the means of containment)
 - Numerous consequential amendments throughout the regulations

Chapter 1.2: Definitions

- Revised definition of *recycled plastics material*
 - Other plastics material in addition to plastics from industrial packagings
 - Quality assurance data must include information on original plastics
 - Applies not only to packagings but also to intermediate bulk containers (IBCs)
 - Application of standard ISO 16103:2005 is not mandatory

Chapter 1.4: Safety obligations of participants

- **1.4.2.1.1: new (f)**
 - In the case of **tanks/tank-containers and portable tanks** carrying refrigerated liquefied gases, obligation of the consignor to ensure that the actual holding time is determined or, in the case of **empty, uncleaned tanks/tank-containers and portable tanks**, ensure that the pressure is sufficiently reduced

Chapter 1.6: Transitional measures

- **1.6.1.8:** Orange-coloured plates in accordance with the provisions of RID/ADR 2003 may only continue to be used until 31 December 2026
- **1.6.1.51:** Carriage of environmentally hazardous adhesives and paints in non type-tested packagings ► Extension until 30 June 2027

Chapter 1.6: Transitional measures

- The following transitional measures are deleted because they have lapsed:
 - **1.6.1.38:** Training certificates for dangerous goods safety advisers in accordance with the model valid until 31 December 2016
 - **1.6.1.53:** high consequence dangerous goods of Class 1
 - **1.6.2.17:** Ultrasonic examination of pressure receptacles in accordance with older standards
 - **1.6.2.21:** Continued use of standard EN 14912:2005
 - **1.6.2.22:** Continued use of standard EN ISO 22434:2011

Chapter 1.8: Measures to ensure compliance with safety requirements

- **1.8.3.2** (Exemption from appointing a dangerous goods safety adviser): Inclusion of the occasional consignment of dangerous goods
 - Multilateral special agreement **RID 1/2023** und **M 351**
- **1.8.6.1** (Administrative controls for the activities described in 1.8.7 and 1.8.8): Inspection bodies may also authorize the in-house inspection service
- **1.8.6.2.1** (Accreditation of inspection bodies):
 - Not necessary to accredit competent authorities
 - But inspection bodies acting as competent authorities must be accredited

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Part 2: Classification



Chapter 2.2: Class specific provisions

- **2.2.1.4:** Fire suppression dispersing devices included in glossary
- **2.2.1.1.1:** Definition of explosive or pyrotechnic effect included
- **Articles containing dangerous substances:**
 - Clear identification in the lists of collective entries (2.2.x.3) for the individual classes
 - Partial inclusion of new classification codes
 - Additions to the decision trees in 2.2.x.3
 - Deletion of packing group in Table A, column (4)

Chapter 2.2: Class specific provisions

- Inclusion of sodium ion batteries
 - Additions to individual provisions that previously only applied to lithium batteries:
 - 2.1.5.2 Classification of articles containing batteries
 - 2.2.9.1.7 Basic requirements for lithium batteries extended to sodium-ion batteries

Chapter 2.2: Class specific provisions

- **2.2.9.1.7 (g):** Explanation of the term “make available” in the context of the test summary for lithium batteries
 - Manufacturers and subsequent distributors must ensure that the test summary is accessible
 - Extended to sodium ion batteries

Chapter 2.2: Class specific provisions

- **2.2.9.1.11:** Exemption of pharmaceutical products (such as vaccines) in clinical trials
 - Provided that they are packed in a form ready to be administered

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Part 3: Dangerous Goods Lists, Special Provisions



Chapter 3.2: Table A

- Inclusion of new UN numbers:
 - **UN 0514** FIRE SUPPRESSION DISPERSING DEVICES
 - **UN 3551** SODIUM ION BATTERIES with organic electrolyte
 - **UN 3552** SODIUM ION BATTERIES CONTAINED IN EQUIPMENT or SODIUM ION BATTERIES PACKED WITH EQUIPMENT, with organic electrolyte
 - Multilateral special agreement concerning UN 3551 and UN 3552
RID 2/2023 and **M 354**

Chapter 3.2: Table A

- Inclusion of new UN numbers:
 - **UN 3553** DISILANE
 - **UN 3554** GALLIUM CONTAINED IN MANUFACTURED ARTICLES
 - **UN 3555** TRIFLUOROMETHYLTETRAZOLE-SODIUM SALT IN ACETONE, with not less than 68% acetone, by mass
 - **UN 3556** VEHICLE, LITHIUM ION BATTERY POWERED

Chapter 3.2: Table A

- Inclusion of new UN numbers:
 - **UN 3557** VEHICLE, LITHIUM METAL BATTERY POWERED
 - **UN 3558** VEHICLE, SODIUM ION BATTERY POWERED
 - **UN 3559** FIRE SUPPRESSION DISPERSING DEVICES
 - **UN 3560** TETRAMETHYLAMMONIUM HYDROXIDE AQUEOUS SOLUTION with not less than 25% tetramethylammonium hydroxide (Class 6.1, PG I)
 - Reference to SP 279 (classification based on human experience)

Chapter 3.2: Table A

- In connection with UN 3560 TETRAMETHYLAMMONIUM HYDROXIDE AQUEOUS SOLUTION with not less than 25% tetramethylammonium hydroxide:
 - **UN 1835 TETRAMETHYLAMMONIUM HYDROXIDE AQUEOUS SOLUTION with more than 2.5% but less than 25% tetramethylammonium hydroxide** (Class 8, PG II, subsidiary risk Class 6.1) + adaptation of transport provisions + SP 279 (classification based on human experience)
 - **UN 1835 TETRAMETHYLAMMONIUM HYDROXIDE AQUEOUS SOLUTION with not more than 2.5% tetramethylammonium hydroxide** (Class 8, PG III)
 - Transitional measure: Application of the previous classification and transport provisions permitted until 31 December 2026 (1.6.1.55)

Chapter 3.2: Table A

- **UN 3423 TETRAMETHYLAMMONIUM HYDROXIDE, SOLID**
 - Now Class 6.1 instead of Class 8; now PG I instead of PG II
 - ▶ Adaptation of transport provisions
 - Reference to SP 279 (classification based on human experience)
 - Transitional measure: Application of the previous classification and transport provisions permitted until 31 December 2026 (1.6.1.56)

Chapter 3.2: Table A

- In connection with new UN 3551 SODIUM ION BATTERIES with organic electrolyte:
 - **UN 3292 BATTERIES CONTAINING METALLIC SODIUM OR SODIUM ALLOY or CELLS CONTAINING METALLIC SODIUM OR SODIUM ALLOY**

(Formerly SODIUM BATTERIES or SODIUM CELLS)

Chapter 3.2: Table A

- **UN 1010** BUTADIENES, STABILIZED or BUTADIENES AND HYDROCARBON MIXTURE, STABILIZED, containing more than 40% butadienes
 - new with more than **20%** butadienes

Chapter 3.3: Special provisions

- **Extension of special provisions to sodium ion batteries (UN 3551 and UN 3552)**
 - **SP 118** (Exemption of lithium batteries)
 - **SP 230** (Reference to requirements for lithium batteries in Chapter 2.2)
 - **SP 296** (Dangerous goods that may be contained in life-saving appliances)

Chapter 3.3: Special provisions

- **Extension of special provisions to sodium ion batteries (UN 3551 and UN 3552) (contd.)**
 - **SP 310** (Carriage of small production runs and pre-production prototypes of lithium batteries)
 - **SP 328** (Lithium batteries that may be installed in a fuel cell system)
 - **SP 348** (Marking of lithium batteries with the nominal energy on the outside case)
 - Obligation for sodium ion batteries manufactured after 31 December 2025

Chapter 3.3: Special provisions

- **Extension of special provisions to sodium ion batteries (UN 3551 and UN 3552) (*contd.*)**
 - **SP 363** (Lithium batteries in UN 3528 to 3530 internal combustion engines)
 - **SP 376** (Provisions for damaged or defective lithium batteries)
 - **SP 377** (Lithium batteries for disposal or recycling)

Chapter 3.3: Special provisions

- **Extension of special provisions to sodium-ion batteries (UN 3551 and UN 3552) (*contd.*)**
 - **SP 636** (Exemption of lithium batteries from the collection facility to the intermediate processing facility)
 - **SP 667** (No full compliance with the requirements of 2.2.9.1.7 for lithium batteries installed in damaged vehicles, machinery or engines)

Chapter 3.3: Special provisions

- **Extension of special provisions to sodium ion batteries (UN 3551 and UN 3552) (*contd.*)**
 - **SP 669** (Classification of trailers carried as a load with equipment powered by fuel or lithium batteries)
 - **SP 670** (Exemption of lithium batteries installed in equipment from private households intended for recycling or disposal)

Chapter 3.3: Special provisions

- **SP 252 (UN 2426)**
 - Adaptation of the classification and exemption provisions across all modes of transport
 - Deletion of the RID/ADR/ADN-specific special provision 644

Chapter 3.3: Special provisions

- **SP 310** (Carriage of small production runs and pre-production prototypes of lithium batteries):
 - Now also applies to sodium ion batteries (UN 3551 and UN 3552)
 - Definition of minimum requirements
 - Articles (UN numbers 3537, 3538, 3540, 3541, 3546, 3547 or 3548) may contain such cells and batteries if P 006 or LP 03 are complied with

Chapter 3.3: Special provisions

- **SP 360** (Lithium batteries in vehicles powered by batteries)
 - Extension to sodium ion batteries (UN 3551 and UN 3552)
 - Assignment of battery-powered vehicles to the new UN numbers 3556 to 3558

Chapter 3.3: Special provisions

- **SP 363** (UN 3528 to UN 3530 internal combustion engines)
 - In addition to lithium batteries, internal combustion engines may also contain sodium ion batteries
 - Full compliance with the provisions of 2.2.9.1.7.1 or 2.2.9.1.7.2 is not required when small production runs and pre-production prototypes installed in machinery or engines are carried for testing

Chapter 3.3: Special provisions

- **SP 365** (UN 2803 and UN 2809): Reference to new entry UN 3554 GALLIUM CONTAINED IN MANUFACTURED ARTICLES
- **SP 366** (UN 3506 and UN 3554 new): Exemption of instruments and articles containing not more than 1 kg of gallium

Chapter 3.3: Special provisions

- **SP 388** (Assignment of vehicles):
 - UN 3171 only for vehicles and equipment powered by wet batteries, metallic sodium batteries or sodium alloy batteries
 - New UN numbers 3556 to 3558 for vehicles powered by lithium batteries or sodium ion batteries
 - Some parts of the vehicle, other than the battery, may be detached from its frame to fit into the packaging
 - Inclusion of basic requirements for lithium batteries and sodium ion batteries

Chapter 3.3: Special provisions

- **SP 650** (UN 1263, transport provisions for waste):
 - Inclusion of environmentally hazardous paints that come under UN number 3082
 - Mixed packing of UN 1263 and UN 3082 permitted
 - Mixed loading of UN 1263 and UN 3082 permitted

Chapter 3.3: Special provisions

- **SP 666** (Vehicles carried as a load UN 3166, UN 3171, UN 3556 to UN 3558 (new)): Labelling and marking provisions must be observed when vehicles are fully packed
- **SP 668** (Exemption of elevated temperature substances for the purpose of applying road markings): Extension to bitumen or similar products for repairing cracks in existing road surfaces
- **Multilateral special agreement M 358**

Chapter 3.3: Special provisions **new**

- **SP 28** (Assigned to all desensitised explosive substances of classes 3 and 4.1): May only be carried if the percentage of diluent is not below the specified level

Chapter 3.3: Special provisions **new**

- **SP 400** (Exemption of sodium ion batteries (UN 3551 and UN 3552)):
 - Battery does not contain electrical energy (verifiable short-circuiting)
 - Compliance with the basic requirements for sodium ion batteries in accordance with 2.2.9.1.7.2
 - Marking with battery mark
 - Package must withstand drop test from 1.2 m
 - Protection of batteries installed in equipment
 - Dangerous goods in the cell do not exceed the quantity limits for limited quantities

Chapter 3.3: Special provisions **new**

- **SP 401** (UN 2795, UN 3292, UN 3551 and UN 3552): Assignment of the various batteries containing sodium
- **SP 402** (UN 1010): Limitation of the vapour pressure and minimum value for the density of butadienes and hydrocarbon mixture, stabilized
- **SP 403** (UN 3270): Possibility of exemption for nitrocellulose membrane filters

Chapter 3.3: Special provisions **new**

- **SP 404** (new UN number 3558): Exemption for vehicles powered by sodium ion batteries
 - Batteries do not contain electrical energy and the short-circuiting is verifiable

Chapter 3.3: Special provisions **new**

- **SP 406** (UN 1006, UN 1013, UN 1046, UN 1066): Carriage in accordance with the limited quantity provisions
 - In pressure receptacles containing not more than 1 000 ml
 - Test pressure capacity product not exceeding 15.2 MPa·l (152 bar·l)
 - Deletion of SP 653
 - Transitional measure: Continued use of SP 653 until 31 December 2026 (1.6.2.24)

Chapter 3.3: Special provisions **new**

- **SP 407** (new UN numbers 0514 and 3559): Description and classification of fire suppression dispersing devices in Class 1 or Class 9

Chapter 3.3: Special provisions **new**

- **SP 408** (UN 1835 and new UN 3560): Classification of formulations containing more than 1% surfactants and more than 2.38% but less than 8.75% tetramethylammonium hydroxide or more than 8.75% tetramethylammonium hydroxide to UN number 2927

Chapter 3.3: Special provisions **new**

- **SP 677** (UN 3090, UN 3091, UN 3480 and UN 3481 as well as new UN numbers 3551 and 3552):
 - Assignment of damaged or defective cells or batteries (see SP 376) to transport category 0 and indication in the transport document
 - Deletion of the corresponding sentence in SP 376

Chapter 3.3: Special provisions **new**

- **SP 678** (UN 2212 and UN 2590): Carriage in bulk of waste contaminated with free asbestos with the risk of releasing hazardous quantities of asbestos:
 - Carriage only from the site where it is generated to a final disposal facility
 - Only waste from roadworks, soil, objects, damaged, demolished or rehabilitated structures or buildings
 - No mixed loading with other hazardous or non-hazardous waste
 - Full load
 - Reference to SP 678 in the transport document (see 5.4.1.1.4 new)
 - Multilateral special agreement **RID 1/2024** and **M 356**

Chapter 3.4: Limited quantities

- Instruction of all persons involved according to Chapter 1.3 required instead of full ADR driver training according to 8.2.1

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Part 4: Provisions for the use of packagings and tanks



Chapter 4.1: Packagings, IBCs and large packagings

- **4.1.1.5.3 new:**
 - Carriage of waste in inner packagings: Mixed packing of inner packagings of different sizes and shapes in one outer packaging is possible
 - Not possible for waste of classes 1, 2, 6.2 and 7
 - Limitation to certain outer packagings
 - Use of cushioning material and, if necessary, absorbent material
 - Outer packaging must be tested for packing group I
 - May only be packed together by trained and competent personnel

Example of unsorted waste that is handed over for disposal



Chapter 4.1: Packagings, IBCs and large packagings

- **4.1.1.21.7 new:**
 - Use of polyethylene packagings for liquid waste with unknown composition
 - Packagings must be tested with all standard liquids according to 6.1.6.1
 - Period of use limited to two and a half years from the date of manufacture

Chapter 4.1: Packagings, IBCs and large packagings

- For all packing instructions that provide for refrigeration with dry ice or another coolant that poses a risk of asphyxiation, reference to the applicability of 5.5.3:
 - P 203
 - P 620
 - P 800
 - P 901

Chapter 4.1: Packagings, IBCs and large packagings

- **P 003:**
 - **PP 90** also applies to UN 3554 GALLIUM CONTAINED IN MANUFACTURED ARTICLES
- **P 006 and LP 03:**
 - Requirements for articles containing pre-production prototypes or small production runs of lithium batteries and sodium ion batteries

Chapter 4.1: Packagings, IBCs and large packagings

- **P 650 (UN 3373):**
 - Drop test from a height of 1.2 m no longer mandatory, corresponding capability of the package can also be demonstrated by assessment or experience
- **P 803 (UN 2028):**
 - Packagings must conform to the PG II performance level
 - Reason: Deletion of the packing group for articles in Table A

Chapter 4.1: Packagings, IBCs and large packagings

- **P 902 (UN 3268):**
 - Now also applies to UN 3559 FIRE SUPPRESSION DISPERSING DEVICES

Chapter 4.1: Packagings, IBCs and large packagings

- Extension of following packing instructions for lithium batteries to sodium ion batteries (UN 3551 and UN 3552):
 - P 903 and LP 903
 - P 908 and LP 904 (damaged or defective condition)
 - P 909 (disposal or recycling)
 - P 910 and LP 905 (small production runs and pre-production prototypes)
 - P 911 and LP 906 (damaged or defective condition with risk of dangerous reaction, production of flame, dangerous evolution of heat)

Chapter 4.1: Packagings, IBCs and large packagings

- **New packing instructions:**
 - **P 303** for UN 3555 TRIFLUOROMETHYLTETRAZOLE-SODIUM SALT IN ACETONE, with not less than 68% acetone, by mass
 - **P 912** for UN 3556, UN 3557 and UN 3558 (vehicles powered by lithium batteries or sodium ion batteries)
 - Non type-tested, strong rigid outer packagings
 - Some parts of the vehicle, other than the battery, may be detached
 - For vehicles > 30 kg, carriage unpacked is also possible

Chapter 4.1: Packagings, IBCs and large packagings

- New packing instructions:
 - **LP 903** (UN 3090, UN 3091, UN 3480 and UN 3481 as well as UN 3551 and UN 3552 new)
 - Only now applies to large cells (> 500 g) and large batteries (> 12 kg) and equipment containing such batteries
 - Limitation to individual batteries or individual equipment is removed
 - Additional requirements to prevent movement, contact and loads on the cells and batteries

Chapter 4.2: Use of portable tanks

- Authorisation for the use of portable tanks approved in accordance with Chapter 6.7 of the IMDG Code
- **4.2.3.7.1: Waiver of the calculation of the actual holding time if transport takes place exclusively by road without transshipment and intermediate temporary storage**

Chapter 4.2: Use of portable tanks

- **TP 42 new** (UN 1391 and UN 3482):
 - portable tanks for the carriage of caesium and rubidium dispersions not permitted
 - however, transport in portable tanks is now permitted for the other alkali metal and alkali earth metal dispersions (alignment with RID/ADR tanks)

Chapter 4.3: Use of tanks

- **4.3.2.1.7:** The tank record may alternatively be maintained in electronic form
- **4.3.3.5 (Determination of the actual holding time):**
 - Not applicable to empty, uncleaned tanks
 - Waiver of the calculation of the actual holding time if transport takes place exclusively by road without transshipment and intermediate temporary storage
- **4.3.3.6 (Conditions for offering for carriage)**
 - Reduction of pressure in empty, uncleaned tanks to ensure that the pressure relief devices will not activate

Chapter 4.3: Use of tanks

- **4.3.4.2.1:** when transporting hot substances, openings and closures are exempt from the requirement that the temperature on the outside must not exceed 70 °C
 - Openings and closures are located in places where they cannot be easily touched
 - Provision cannot always be complied with
 - Alignment with Chapter 6.7

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Part 5: Consignment provisions



Chapter 5.2: Marking and labelling

- **5.2.1.9:** Lithium battery mark also applies to sodium ion batteries and will now become “battery mark”



Chapter 5.3: Placards

- Removable skips not conforming to Chapter 6.11 are considered as containers



Chapter 5.3: Placards

- **5.3.2.1.3** (no orange-coloured plates on the sides when carrying different types of fuel)
 - Extension to UN 3475 ETHANOL AND GASOLINE MIXTURE, with more than 10% ethanol
 - Information on the plates on the front and rear ends: 33 / 3475

Chapter 5.4: Documentation

- **5.4.0.2:**
 - When using an electronic transport document, the goods per vehicle and the vehicle must be identifiable
- **5.4.0.1:**
 - Similar provision also in RID, whereby requirement also applies to conventional transport document according to current practice

Chapter 5.4: Documentation

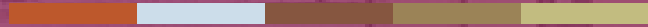
- **5.4.1.1.3.2:**
 - Estimate of the quantity of waste for clinical or medical waste (UN 3291) is also now possible
- **5.4.1.1.3 new:**
 - Special provisions for the carriage of waste in inner packagings packed together in an outer packaging
 - Reference to 4.1.1.5.3 in the transport document
 - No technical name required

Chapter 5.4: Documentation

- **5.4.1.2.2:** Specification of the end of the actual holding time in the transport document
 - Waiver for tank-containers and portable tanks carried exclusively by road
- **5.4.1.1.4 new:**
 - Carriage of waste contaminated with free asbestos (UN 2212 and UN 2590)
 - Reference to special provision 678 in the transport document
 - Must be accompanied by data sheet of the container-bag used (dimensions, maximum mass)
 - Must be accompanied by a copy of the loading procedure

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Part 6: Construction and testing requirements for packagings, IBCs, large packagings and tanks



Chapter 6.1: Packagings

- **6.1.3.1:** Packing mark only on non-removable components
 - Transitional measure: continued use of packagings manufactured before 1 January 2027 (1.6.1.57)
- **6.1.4.14, 6.1.4.2.3 and 6.1.4.3.3:** Clarification that expanded rolling hoops and separate rolling hoops on drums made of steel, aluminium or another metal are not a requirement under dangerous goods law

Chapter 6.2: Pressure receptacles

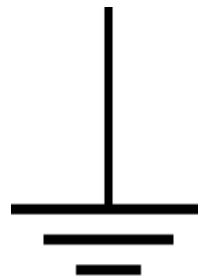
- Numerous updated ISO and EN ISO standards taken into account

Chapter 6.7: Construction and testing requirements for portable tanks

- **6.7.2.1:** Clarification that portable tanks made of fibre-reinforced plastics are also considered portable tanks
- **6.7.4.15.1:** Adaptation of the mark for portable tanks for the transport of refrigerated liquefied gases as a result of the distinction between filling density and degree of filling
 - Transitional measure: not necessary to replace the mark on existing portable tanks (1.6.4.66)

Chapter 6.8: Requirements for the construction, testing and inspection of tank-wagons/tank-vehicles and tank-containers

- **6.8.2.1.20:** Requirement for minimum wall thickness of partition and surge walls only applies if these are used as reinforcing elements
- **6.8.2.1.27:** Adaptation of the earthing symbol to be affixed to tanks to the symbol used in electrotechnical standards



Chapter 6.8: Requirements for the construction, testing and inspection of tank-wagons/tank-vehicles and tank-containers

- **6.8.2.2.11:** Transparent material of level-gauges shall not come into direct contact with the substance carried (previously limited to glass or other fragile materials)
 - Transitional measure: continued use of existing tanks possible (1.6.3.61 and 1.6.4.65)
- Numerous updated EN standards taken into account

Chapter 6.8: Requirements for the construction, testing and inspection of tank-wagons/tank-vehicles and tank-containers

- **TE 16: Deletion of the outdated special provision that no part of the tank-wagon may be of wood**
 - Deletion of special provision TE 16 in Table A for all oxidizing substances in packing group I with the subsidiary risk of corrosivity

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Part 7: Provisions concerning the conditions of carriage,
loading, unloading and handling



Chapter 7.2: Provisions concerning carriage in packages

- **7.2.4: Special provision W 14/V 14**
 - Carriage of gas cartridges for reprocessing or disposal purposes only in ventilated **wagons/vehicles** (special provision was previously only applicable to aerosols)
 - Omission when waste gas cartridges were introduced in RID/ADR 2021
 - Assignment to all entries of UN number 2037 in Table A

Chapter 7.3: Provisions concerning carriage in bulk

- **7.3.1.1:**
 - Empty, uncleaned packagings may only be carried in bulk if the dangerous goods they contained were also permitted for carriage in bulk
 - The instructions for carriage in bulk applicable to the dangerous goods must be complied with

Chapter 7.3: Provisions concerning carriage in bulk

- **7.3.3.2.7**
- **AP 11 new (UN 3257):**
 - Specific requirements for the construction, testing and marking of vats used for the carriage of molten aluminium
 - Previously carried in accordance with the conditions laid down by the competent authority
 - Transitional measure: continued use of vats built and approved in accordance with national provisions and authorised by the competent authorities of the countries of use (1.6.1.54)

Chapter 7.3: Provisions concerning carriage in bulk

- **AP 11 new (contd.):**
 - Only vehicles fitted with a vehicle stability function
 - Supplementary training of drivers instead of special course for carriage in tanks
 - particular handling behaviour
 - driving physics (driving stability/overturning behaviour, particularly centre of gravity height, surge effects)
 - limits of electronic stability control (ESC)
 - special measures in the event of an accident

Chapter 7.3: Provisions concerning carriage in bulk

- **7.3.3.2.7**
- **AP 12 new** (UN 2212 and UN 2590): supplementary provisions for the carriage of waste contaminated with free asbestos
 - Use of container-bags with inner and outer bag (inner bag for dust-tightness, outer bag for mechanical resistance)
 - Container-bag only intended for loading within the bulk load compartment, no transfer or lifting (reloading) of container-bag
 - Maximum mass specified by the manufacturer must be observed

Chapter 7.5: Provisions concerning loading, unloading and handling

- **7.5.11**
- **CW 38/CV 38 new** (UN 2212 and UN 2590):
 - Load compartments shall have no sharp internal edges
 - The container-bag shall be placed in the load compartments prior to any filling
 - Only one container-bag per load compartment
 - No transfer or lifting (reloading) of container-bag
 - Decontamination of container-bag after filling and closing

Chapter 7.5: Provisions concerning loading, unloading and handling

- **7.5.11**
- **CW 14 new** (UN 2956, UN 3241, UN 3242 and UN 3251 as well as UN 3555 new):
 - Special provision CV 14 ADR carried over
 - Shielding from direct sunlight and heat
 - Storage only in cool, well-ventilated places

Chapter 7.5: Provisions concerning loading, unloading and handling

- **7.5.11**
- **CV 29 new** (UN 3101 to UN 3110 and UN 3555 new):
 - Special provision CW 29 RID carried over
 - Upright loading of packages



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Zwischenstaatliche Organisation für den internationalen Eisenbahnverkehr
Intergovernmental Organisation for International Carriage by Rail

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