## Euro Contrôle Route

Past – Present – Future

1<sup>st</sup> WEBINAR ADR SESSION



#### Protocol

#### **Practical rules for this Webinar ADR**

- Before entering the meeting Webinar, please fill in your name.
- When you have entered the meeting please mute the microphone (audio) and the video. Muting of the microphone and the video is important for an optimal sound quality of the Webinar.
- Because of the many participants, we have decided to use the chat only. If you have a question or comment, please ask/post your question/comment in the chat ending with your e-mail address. A moderator has been appointed who collects all questions and/or comments. If there is time after each presentation, some (important) questions can already be answered in the chat. If that is not possible, you'll receive an e-mail with an answer to your question(s).
- If you have any questions / remarks afterwards, please send it to: <u>Hennie.vander.stokker@ilent.nl</u>
- After the Webinar all the presentations will be sent to you by e-mail.

- I. OPENING OF THE WEBINAR SESSION: presentation of the protocol to guarantee a quality webinar session (Andre SCHENKEL)
- II. ECR ADR Sub working group activities (Jean-Michel PIQUION / Vlastimil BARTU)
- III. ADR 2021 amendments linked to the enforcement activities (*Iliass ZERKTOUNI*)
- IV. Carriage of wastes in relation with Covid-19 sanitary crisis: presentation of the Dutch experience (Hennie C. Van Der STOKKER)

## WEBINAR SESSION

#### ECR ADR Sub-working group activities





Jean-Michel PIQUION – France

Vlastimil BARTU – Czech Republic

## ECR ADR Sub-working group

Participant	Country/Organization
Jean-Michel Piquion (chairman)	France
Hennie C. van der Stokker (vice chairman)	Netherlands
Gérard Schipper	ECR / Netherlands
Thomas Fischer	Germany
André Schenkel	Netherlands
Eric Creneguy	France
Iliass Zerktouni	Luxemburg
Jessica Van Den Heuvel	Belgium
Pawel Helmrich	Poland
Vlastimil Bártů	Czech republic
Mihai Manea	Romania

# Purpose of our work

Increase the safety of TDG by road, and ensure fair competition by improving:

- uniform procedures during road side checks;
- good practices during ADR checks;
- quality of road side check;
- the reports which has to be sent to the EU Commission;
- the training of inspectors (educational/training tools).





Our activities: Meetings of our sub our sub working group Several meetings organized every year in order to:

- share inspection practices;
- share information in relation with TDG;
- develop new tools for inspectors;
- plan our activities (expert class, ACE, SEA...);
- increase relationship with EU Commission by making proposals in relation with inspections of DG).







Our activities: ADR expert class ADR expert class in Osnabruck (Germany).

Participants: experts in TDG enforcement.

Activities:

- test (multiple choice);
- presentations (specific topics chosen by the SWG...);
- practical cases encountered during roadside checks or ACE operations.



ACE: <u>ADR</u> <u>Crossborder</u> <u>Enforcement</u> ACE (<u>A</u>DR <u>C</u>rossborder <u>E</u>nforcement):

Two operations by year in volunteers countries.

Participants: experts in dangerous goods inspections from EU countries. Purpose:

- sharing experiences in ADR enforcement;
- sharing good practices in roadside check inspections.







SEA (<u>Simultaneous</u> <u>Enforcement of</u> <u>ADR</u>)

#### **SEA (Simultaneous Enforcement of ADR)**

New activity linked with Covid-19 sanitary crisis (impossibility to organize ACE due to traveling restrictions)

Participants: all the enforcement staff in charge of ADR inspections in participants countries. Duration: 1 week.

Purpose:

Sharing a joint activity during one week on enforcement of ADR provisions.

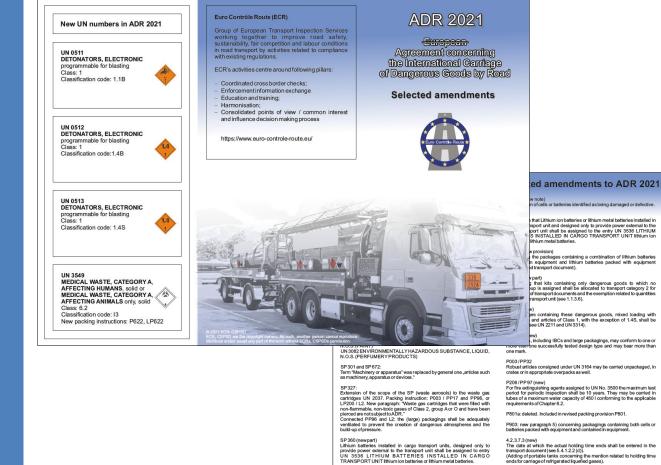
#### ADR 2021 – SELECTED AMENDMENTS

#### Leaflet in support of this webinar

SUPPORT

**EDUCATION** 

INFORMATION



5.2.1.9.2

Changes to the shape (rectangle or square and the dimensions / minimum dimensions

When the engine or machinery contains more than 1000 I of liquid fuels, for UN 3528 and UN 3530, or the fuel tank has a water capacity of more than 1000 I, for UN 3529: Change of part concerning tunnels: For carriage that includes passage through restricted tunnels, the transport unit shall display orange-coloured plates according to 5.3.2 and the tunnel restrictions according to 8.6.4 apply.



New hazard identification number: 836 UN 2683 AMMON IUM SUL PHIDE SOLUTION Corrosive or slightly corrosive substance, flammable (flash-point between 23°C and



5.4.1.1.1 (k) For carriage that includes passage through tunnels with restrictions for carriage of dangerous goods, the tunnel restriction code given in Column (15) of Table A of Chapter 3.2, in capitals within parenthesis, of the mention "--)".

55341 "CARBON DIOXIDE, SOLID" or "DRY ICE".

5.5.3.6.2 Modifications in line with the information's contained in the mark for asphyxiation warning.

6.1.3.14 (new) (see also 6.5.2.1.3 and 6.6.3.4) 語う Where a packaging conforms to one or more than one tested packaging design type, including one or more than one tested IBC or large packaging design type, the packaging may bear more than one mark.

Chapter 6.3 has the title: REQUIREMENTS FOR THE CONSTRUCTION AND TESTING OF PACKAGINGS FOR CLASS 6.2 INFECTIOUS SUBSTANCES OF CATEGORY A (UN Nos. 2814 AND 2900)

65224 0.5.2.24 Marks of inner receptacles of composite IBC design type shall be readily accessible for inspection. If not, duplicate of the required marks on the inner receptacle shall be placed on the outer casing preceded by the wording "Inner receptacle

If packages are carried in other closed WARNING vehicles or containers, gas exchange NO VENTILATION between the load compartment and the OPEN WITH CAUTION driver's cab shall be prevented

New part in S16 and S21 concerning supervision in accordance with the security plan in 1.10.3.2 at all times to prevent any malicious act and to alert the driver and the competent authorities in the event of loss or fire.

9.1.3.4 (adding of one paragraph): The vehicle shall not be used for the carriage of dangerous goods after the nominal expiry date until the vehicle has a valid certificate of approval.

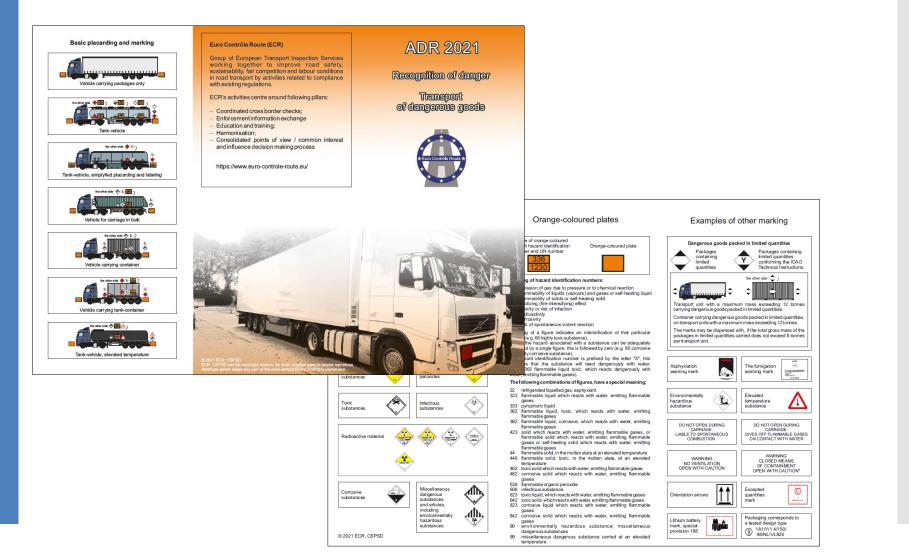
In the Model for certificate of approval for vehicles carrying certain dangerous goods is deleted word "European"

Some texts have been reduced or modified and don't include all ADR 2021 modification. For more information, please visit; https://unece.org © 2021 ECR. CSPSD

#### https://www.euro-controle-route.eu/

#### **ADR 2021 RECOGNITION OF DANGER**

#### SUPPORT EDUCATION INFORMATION

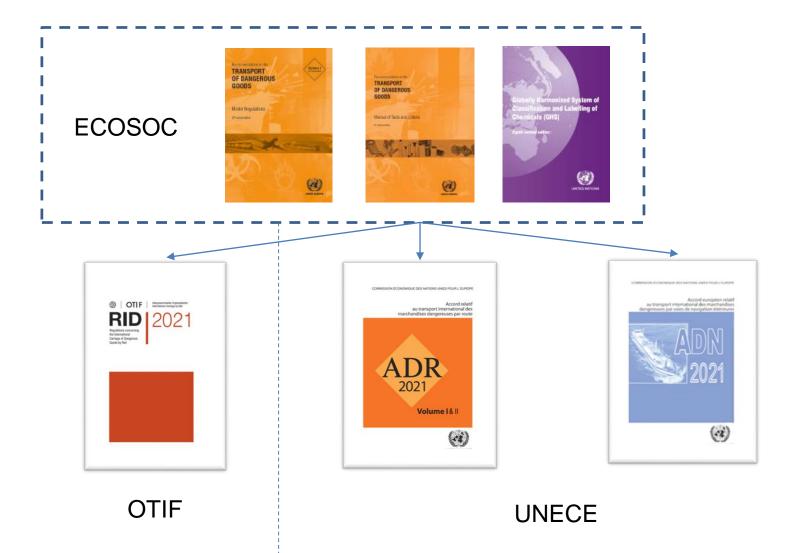


https://www.euro-controle-route.eu/

ADR 2021 amendments linked to the enforcement activities

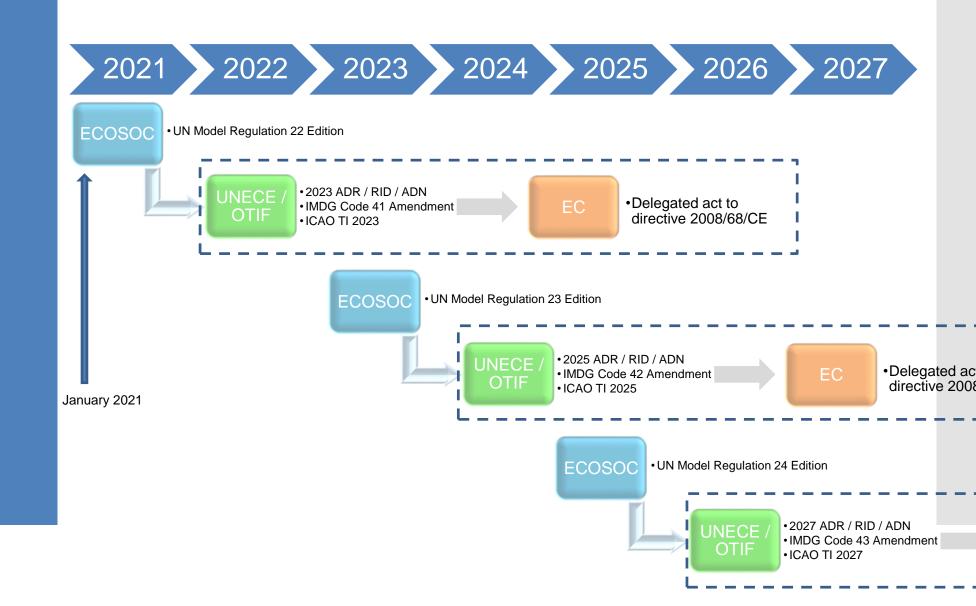


Hierarchy of international agreements and regulations on the transport of dangerous goods



#### INTRODUCTION

#### **Amendments implementation process**



#### INTRODUCTION

**INTRODUCTION** 

#### Who decides those ammendments?

- Decisions are taken by committees of international organizations such as UN, OTIF, IMO, ICAO
- Committees have their own rules concerning participation and working procedures
- Delegations: representatives of contracting states, usually from competent ministries or departments
- NGOs and IGOs may participate during the meetings and submit proposals but they are not entitled to vote

#### What is the aim of those amendments?

- To adapt the regulations to scientific and technical progress
- To eliminate or minimize the risks and hazards
- To maxize the security during the transportation chain
- International harmonization of the rules
- Multimodal harmonization of the rules

#### INTRODUCTION

#### **Regulatory structure and expert meetings for the** transport of dangerous goods (UN) **ECOSOC** Sub-Committee of Experts on the Transport of Dangerous Goods (AC.10 C.3) & Sub-Committee of Experts on the Globally Harmonized System of Classification and Labelling of Chemicals (AC.10 C.4) UNECE (ADR / RID / ADN) RID Joint Committee of Experts and the INTRODUCTION Working Party on the Transport of Dangerous Goods (WP15 AC.1) RID ADR ADN (WP15 AC.2) (OTIF) (WP15) **European Regulation** 2008/68/EC & 95/50/EC National Regulation National legislation

#### INTRODUCTION

# European Union and the dangerous goods regulations

- The European Union regulates the transport of dangerous goods with 2 directives which annexes are amended by delegated acts:
  - Directive 2008/68/EC on the inland transport of dangerous goods; requires that member states implement ADR, RID and ADN for national transport and transport between member states
  - Directive 95/50/EC on uniform procedures for checks on the transport of dangerous goods by road
- European Commission participates with consultative status (IGO) in the meetings of UNECE and ECOSOC, before each of those meetings EU coordination meetings are held
- European Union acceded 2011 to the Convention concerning International Carriage by Rail (COTIF) this implies that Council Decision on the Community common position on amendments to RID are voted by the EU.

#### **INTRODUCTION**

## Directive 95/50/EC

- During the last years the ECR Harmony SWG has prepared a proposal of amendments to the directive 95/50/EC aiming to:
  - Update the checklist for road and company checks
  - Introduce extensive guidelines for the checklist
  - Introduce guidelines for preventive checks
- The EC-Committee on the Transport of Dangerous Goods was informed by the delegations of the Netherlands and France of the ECR's proposed amendment to Directive 95/50/EC in the year 2019.
- Following this, an informal group brought together law enforcement agencies, Ministers' delegates and the European Commission in Paris to discuss the various issues related to these amendments.
- Future meetings are being prepared to launch these amendments at the level of the European legislation.
- The ECR plays here an active role as an expert in the field of dangerous goods transport enforcement.

NOTE

The following slides include a selection of amendments applicable in ADR 2021 and related to the enforcement of the ADR.

Amendments related to dangerous goods of class 7 are excluded.

Transition period from 1<sup>st</sup> January 2021 until 30<sup>th</sup> June 2021.

# Change of the name of the agreement:

The new name of the agreement is:

#### ADR 2021:

"AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEREOUS GOODS BY ROAD"





# Consequence of change of the name of the agreement:

1.6.1.48: Transitional measures (certificates of approval): the certificate of approval for vehicles carrying certain dangerous goods conforming to the model in
9.1.3.5 applicable until 31 December 2020, issued before
1 July 2021, may still be used (word "European").

#### 9.1.3.5 New model for certificate of approval:

CERTIFICATE OF APPROVAL FOR VEHICLES CARRYING CERTAIN DANGEROUS GOODS

This certificate testifies that the vehicle specified below fulfils the conditions prescribed by the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).

Four new UN numbers																		
(1)	(2)	(3a)	(3b)	(4)	(5)	(6)	(7a)	(7b)	(8)	(9a)	(9b)	(10)- (14)	(15)	(16)	(17)	(18)	(19)	(20)
0511	DETONATORS, ELECTRONIC programmable for blasting	1	1.1B		1		0	EO	P131		MP23		1 (B1000C)	V2		CV1 CV2 CV3	S1	
0512	DETONATORS, ELECTRONIC programmable for blasting	1	1.4B		1.4		0	EO	P131		MP23		2 (E)	V2		CV1 CV2 CV3	S1	
0513	DETONATORS, ELECTRONIC programmable for blasting	1	1.4S		1.4	347	0	EO	P131		MP23		4 (E)			CV1 CV2 CV3	S1	
3549	MEDICAL WASTE, CATEGORY A, AFFECTING HUMANS, solid or MEDICAL WASTE, CATEGORY A, AFFECTING ANIMALS only, solid	6.2	13		6.2	395	0	EO	P622 LP622		MP2		0 (-)	V1		CV13 CV25 CV26 CV28	S3 S9 S15	

## UN 3549

The entry of this new UN number was directly related to the Ebola crisis in 2014.

Ebola virus is now included in the list of category A substance in the table of 2.2.62.1.4.1 (UN 2814). The wastes produced had to be classified on the basis of this UN number (2.2.62.1.11.1).

Problem: wastes had to conform with packing provision P620 (3 packages) and an Ebola patient produces 400 litres of wastes per day...

Following the work done by the UN sub committee and the introduction of new provisions in the UN Model regulation:

- 1<sup>st</sup> step: 2019: multilateral agreement M317 (concerning the carriage of solid medical or clinical waste, Category A);

- 2<sup>nd</sup> step: 2021: entry into force in ADR of these new provisions.

## UN 3549

#### Classification (2.2.62):

Solid medical waste containing Category A infectious substances generated from the medical treatment of humans or veterinary treatment of animals may be assigned to UN No. 3549. The UN No. 3549 entry shall not be used for <u>waste from bio-research</u> or <u>liquid waste</u>.

Transport category: 0 (no PG)

Packing instructions (4.1.3): P622 / LP622

Loading, unloading and handling: CV13, CV25, CV 26, CV 28

Operation: S3, S9, S15

#### **New exemption**

1.1.3.7: Exemptions related to the carriage of electric energy storage and production systems:In b) add: appliance of provisions from 5.5.4 to data loggers and cargo

tracking devices.

#### **New exemption**

New 5.5.4 section concerning "dangerous goods contained in equipment in use or intended for use during carriage, attached to or placed in packages, overpacks, containers or load compartments."

"5.5.4.1 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 any provisions of ADR other than the following:

(a) the equipment shall be in use or intended for use during carriage;(b) the contained dangerous goods (e.g. lithium batteries, fuel cell cartridges) shall meet the applicable construction and test requirements specified in ADR; and

(c) the equipment shall be capable of withstanding the shocks and loadings normally encountered during carriage.

5.5.4.2 When such equipment containing dangerous goods is carried as a consignment, the relevant entry of Table A of Chapter 3.2 shall be used and all applicable provisions of ADR shall apply."

## **Notifications of occurrences**

**1.8.5.1: Notifications of occurrences involving dangerous goods:** adding of the <u>unloader</u> in the list of participants who should ascertain that the report is made to competent authority.



#### Transport document: UN 3077 and 3082

<u>New 3.1.2.8.1.4:</u> possibility to introduce a proper shipping name for UN Nos. 3077 and 3082, referring to SP274 :

"The technical name may be a name in capital letters in column 2 of Table of Chapter 3.2 provided that this name does not include "N.O.S" and that special provision 274 is not assigned. The name which most appropriately describes the substance or mixture shall be used, e.g.:

Example:

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERFUMARY PRODUCTS) »

Not possible:

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (FLAMMABLE LIQUID N.O.S)

# Transport document: holding time for portable tanks

**New 4.2.3.7.3:** The date at which the actual holding time ends shall be entered in the transport document (see 5.4.1.2.2 (d)).

## Transport document: passage through tunnels

**Change in 5.4.1.1.1. k):** for carriage that includes passage through tunnels with restrictions for carriage of dangerous goods, the tunnel restriction code given in Column (15) of Table A of Chapter 3.2, in capitals within parenthesis, or the mention '(-)'.

**Explanation:** 

- If there is no passage through tunnels no need to mention the tunnel restriction code (as in ADR 2019).
- If there is a passage through tunnels: mandatory tunnel restriction code or mention "-" if dangerous goods are not concerned.

#### Part 3: chapter 3.3

#### UN 3363: DANGEROUS GOODS IN ARTICLES or DANGEROUS GOODS IN MACHINERY or DANGEROUS GOODS IN APPARATUS

- **SP 301:** Extension of the terms machines and apparatus in addition of fittings generally to articles for UN 3363.
- SP 672: Corresponding to SP 301 the terms machines and apparatus in addition of fittings are extended generally to articles.

## UN 2037: RECEPTACLES, SMALL,CONTAINING GAS (GAS CARTRIDGES)

- **SP 327:** extension of the scope of the SP (waste aerosols) to the waste gas cartridges (see also Table A chapter 3.2). Packing provisions / special packing provisions:
- P003 and PP17 and PP96, or
- <u>LP200</u> and <u>L2</u>.

And,

"Waste gas cartridges that were filled with non-flammable, non-toxic gases of Class 2, group A or O and have been pierced are not subject to ADR."

#### Part 3: chapter 3.3

**Clarification concerning lithium batteries:** 

## • New part in SP360 (UN 3091 LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT) precision:

Lithium batteries installed in cargo transport units, designed only to provide power external to the transport unit shall be assigned to entry "UN 3536 LITHIUM BATTERIES INSTALLED IN CARGO TRANSPORT UNIT lithium ion batteries or lithium metal batteries."

 New part in SP 388 (UN 3166 and UN 3171): Clarification that Lithium ion batteries or lithium metal batteries installed in a cargo transport unit and designed only to provide power external to the cargo transport unit shall be assigned to the entry "UN 3536 LITHIUM BATTERIES INSTALLED IN CARGO TRANSPORT UNIT lithium ion batteries or lithium metal batteries".

## Part 3: chapter 3.3

UN 3090, UN 3091, UN 3480, UN3481:

New part in SP 376: Lithium metal cells or batteries identified as being damaged or defective: introduction of criteria's to define if a cell or a battery is damaged or defective in a nota.

UN 3091 LITHIUM METAL BATTERIES CONTAINED IN EQUIPMENT OR PACKED WITH EQUIPMENT UN 3481 LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT OR PACKED WITH EQUIPMENT

New SP390:

Provisions concerning the packages containing a combination of lithium batteries contained in equipment and lithium batteries packed with equipment :

- Marking «UN 3091» or «UN3481» as appropriate
- Transport document: mention "UN 3091 LITHIUM METAL BATTERIES
   PACKED WITH EQUIPMENT" or "UN 3481 LITHIUM ION BATTERIES
   PACKED WITH EQUIPMENT"

## Part 3: chapter 3.3

#### UN 3316, CHEMICAL KIT OR FIRST AID KIT:

**New part SP 671:** Establishing that kits containing only dangerous goods to which no packing group is assigned shall be allocated to transport category 2 for completion of transport documents and the exemption related to quantities carried per transport unit (see 1.1.3.6).

UN 2211, POLYMERIC BEADS, EXPANDABLE, evolving flammable vapour UN 3314, PLASTICS MOULDING COMPOUND

**New SP 675:** For packages containing these dangerous goods, mixed loading with substances and articles of Class 1, with the exception of 1.4S, shall be prohibited.

## Part 4: chapter 4.1

**New 4.1.1.3.2:** Packagings, including IBCs and large packagings, may conform to one or more than one successfully tested design type and may bear more than one mark.

P003:

**new PP 32:** UN Nos. 2857 and 3358 and robust articles consigned under UN No. 3164 may be carried unpackaged, in crates or in appropriate overpacks.

**new PP96 (waste gas cartridges):** "For UN No. 2037 waste gas cartridges carried in accordance with special provision 327 of Chapter 3.3, the packagings shall be adequately ventilated to prevent the creation of dangerous atmospheres and the build-up of pressure. » See also L2 for large packaging provision LP200.

# ADR 2021:

## Part 4: chapter 4.1

#### P206:

**new PP 97:** For fire extinguishing agents assigned to UN No. 3500 the maximum test period for periodic inspection shall be 10 years. They may be carried in tubes of a maximum water capacity of 450 I conforming to the applicable requirements of Chapter 6.2.

New P622 and LP622: see Nos. UN 3549.

P801a (new or used storage batteries): packing provision deleted.

New provisions introduced in packing provision P801:

- Use of packages conforming with 4.1.1.1, 4.1.1.2, 4.1.1.6, and 4.1.3
- Packages authorized:
  - Rigid outer packagings, wooden slatted crates or pallets.
  - Stainless steel or plastics bins may also be used to carry used batteries

# ADR 2021:

# Part 4: chapter 4.1

**P903:** new paragraph 5) concerning packagings containing both cells or batteries packed with equipment and contained in equipment.

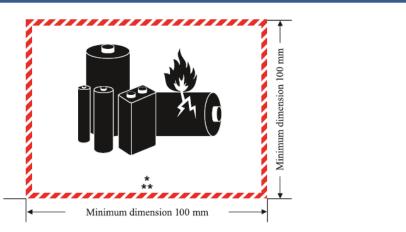
**New 4.2.3.7.3:** The date at which the actual holding time ends shall be entered in the transport document (see 5.4.1.2.2 (d)).

## ADR 2021:

Part 5: Consignment procedures

#### 5.2.1.9.2: Lithium battery mark

Change of the dimensions: 100mm X 100mm



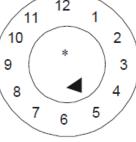
5.5.3: introduction of provisions concerning dry ice (UN 1845) carried as cargo (not only as coolant or conditioner):

- Provisions concerning packages (5.5.3.3 and 5.5.3.4) containing cooler or conditioner will also be applied for dry ice carried as cargo.
- Modification of the comments added to the mark at 5.5.3.6.2: add of CARBON DIOXYDE SOLID (in case of dry ice carried as cargo)

# Part 6:Requirements for the construction and testing of packagings....

Marking of packages:

6.1.3.1 e): No need to mention the last two digits of the year of manufacture in the UN design type mark when the clock is placed near of this mark.



# Part 6:Requirements for the construction and testing of packagings....

Marking of packages:

**6.1.3.14 (new) (see also 6.5.2.1.3 and 6.6.3.4):** "Where a packaging conforms to one or more than one tested packaging design type, including one or more than one tested IBC or large packaging design type, the packaging may bear more than one mark to indicate the relevant performance test requirements that have been met. Where more than one mark appears on a packaging, the marks shall appear in close proximity to one another and each mark shall appear in its entirety. »

#### Example:

- dangerous goods which are liquids when packaged and become solid during the carriage operation.

# Part 6:

Chapter 6.3 : packagings for class 6.2 infectious substances of category A Addition of UN Nos. 2814 and 2900 in the title (due to introduction of new UN 3549 not concerned by provisions in chapter 6.3).

#### **Provisions concerning composite IBC's:**

6.5.2.2.4 : When the marks on the inner receptacle are not readily accessible for inspection due to the design of the outer casing, a duplicate of the required marks on the inner receptacle shall be placed on the outer casing preceded by the wording "Inner receptacle". This duplicate shall be durable, legible and placed in a location so as to be readily accessible for inspection.... In such a case, the date may be waived from the remainder of the marks.

## Part 6:

**6.7.3.15.6.2 (new):** « Except as provided for in 6.7.3.15.6.1, portable tanks which have missed the timeframe for their scheduled 5 year or 2.5-year periodic inspection and test may only be filled and offered for carriage if a new 5-year periodic inspection and test is performed according to 6.7.3.15.4."

#### New part in 6.9.6.1:

-where a tank code is required in accordance with 6.8.2.5.2, the second part of the tank code shall indicate the highest value of the calculation pressure for the substance(s) permitted for carriage according to the type approval certificate.

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

New part in 7.5.11 CV 36:

If packages are carried in other closed vehicles or containers, gas exchange between the load compartment and the driver's cab shall be prevented.

# Part 8: Requirements for vehicle crews, equipment, operation and documentation

#### 8.2.2.8.6 : ADR driver training certificates

« ...Contracting Parties shall also provide explanatory notes to enable the verification of conformity of certificates against the examples provided. The secretariat shall make this information available on its website."

https://unece.org/adr-certificates-0

# Part 8: Requirements for vehicle crews, equipment, operation and documentation

**Security provisions:** 

**8.5: New part in S 1 (6):** In addition, these substances and articles, when subject to the provisions in 1.10.3, shall be supervised in accordance with the security plan in 1.10.3.2 at all times ...

#### New part in S 16:

In addition, vehicles carrying more than 500 kg of these substances, when subject to the provisions in 1.10.3, shall be supervised in accordance with the security plan in 1.10.3.2 at all times to prevent any malicious act and to alert the driver and competent authorities in the event of loss or fire. **New part in S 21:** 

In addition, these goods, when subject to the provisions in 1.10.3, shall be supervised in accordance with the security plan in 1.10.3.2 at all times to prevent any malicious act and to alert the driver and the competent authorities in the event of loss or fire.

# Part 9:Requirements concerning the construction and approval of vehicles

9.1.3.4 certificate of approval:

adding of one paragraph: « The vehicle shall not be used for the carriage of dangerous goods after the nominal expiry date until the vehicle has a valid certificate of approval."