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**Working Party on the Transport
of Dangerous Goods**

**Joint Meeting of the RID Safety Committee
and the Working Party on the Transport of
Dangerous Goods**
(Geneva, 14-24 September 1999)

RESTRUCTURING OF RID/ADR

**PROPOSALS REGARDING THE REFERENCE TO EN STANDARDS IN THE
RESTRUCTURED ADR/RID**

Transmitted by the European Committee for Standardisation (CEN) */

This document presents in Appendix the situation of the references to CEN standards already published or in preparation. The published standards are identified by their EN numbers followed by the year of publication; the standards in preparation are identified by their prEN numbers when they have reached the stage of public enquiry or by their Work Item number when the document has not reached the stage of public enquiry.

The document refers to previous papers tabled by CEN during the last two years with regard to the reference to standards in the restructured ADR/RID, namely:

*/ Distributed by the Central Office for International Carriage by Rail (OCTI) under the symbol OCTI/RID/GT-III/1999/40.

1) *TRANS/WP15/AC.1/1997/70*: submission of 14 standards with synopsis. A working group met in parallel to the main session in order to examine all papers related to class 2 and among others this document. The Joint Meeting adopted only the 3 standards (EN 849, EN 962 and EN 1089) that were published at the time of the Joint Meeting in September 1997.

2) *TRANS/WP15/AC.1/1998/40*: submission of a further 4 standards with synopsis.

Proposal 1:

CEN proposes that the CEN standards that have already been published as EN dated documents and that have already been submitted to the Joint Meeting be adopted as reference documents.

Those documents are printed in bold letters in the tables of the attached Annex. The standards related to the provisions of the restructured texts of 4.1.4, 4.1.6 and 6.2 have been incorporated in the relevant proposals of EIGA.

For the standards related to chapter 6.8, the references are to be included in the document consolidated by the secretariat of OCTI and for the moment should appear in 6.8.3.6 (see TRANS/WP15/AC1/1999/5/Rev.1)

Proposal 2:

CEN proposes that the CEN standards that have already been submitted to the Joint Meeting but that are not yet published at the date of submission of this proposal (26 June) but that are likely to be published as EN dated documents before the end of 1999 be adopted as reference documents put in square brackets in the restructured texts.

The square brackets will be lifted if the Central Secretariat of CEN advises ECE and OCTI secretariat that these standards have indeed been officially published and transmits copies of the front sheets in English, French and German before the end of 1999. If no positive signal is received from CEN/CS, the references to those standards will be deleted from the restructured texts.

Those standards are at the stage of final voting and their content may not be changed except for minor editorial changes. We request this procedure in order to avoid standards whose contents have already been submitted to the Joint Meeting and that are published before the end of 1999 be only being referenced in 2003, owing to purely administrative reasons.

The references to those documents are printed in bold italic letters in the tables of the attached Annex and are placed in square brackets.

Appendix 1

Reference to standards and standards in preparation at CEN TC 23/256/261/268/286/296 in RID/ADR (restructured)

Part 1 General provisions, definitions and training

1.2 Definitions and units of measurements

Standards referred to:

ASTM D 4359-90 in the definition of “liquid” and “solid”

Part 2 Classification

2.2 Class specific provisions

2.2.2 Class 2 Gases

2.2.2.1 Criteria

Standards referred to:

ISO 10156: 1990 flammability and oxidising ability

ISO 10298: 1995 toxicity criteria:(only for the LC50's values)

2.2.3 Class 3 Flammable liquids

2.2.3.1 Criteria

Standards referred to:

ASTM D 4359-90

ISO 2431: 1984

2.2.41 Class 4.1 Flammable solids

2.2.41 Criteria

Standards referred to:

ASTM D 4359-90

ISO 2431: 1984

2.2.8 Class 8 Corrosive substances

2.2.8.1 Criteria

Standards referred to:

ASTM G31-72

ISO 9328

2.3 Test methods

2.3.2 tests relating to flammable liquids of Classes 3, 6.1 and 8

Standards referred to:

for flash-point

ISO 1516; ISO 1523: 1983; ISO 2719: 1988; ISO 3679:1983; ISO 3680: 1983;

EN 22719: 1994

ASTM D56: 1993; ASTM D93: 1994; BS 2000 Part170: 1995; DIN 51755; Part1: 1974; DIN 51755, Part2: 1978;

DIN 53213, Part 1: 1978; NF MO7-011:1988; ; NF MO7-036:1984; NF T66-009: 1969

IP 34: 1988

for fluidity

ISO 2137: 1985

Part 3 Dangerous goods list

no reference to standards foreseen

Part 4 Packing requirements (including use of packagings, IBCs, tanks, containers and vehicles for packing purposes)

4.1.4 List of packing instructions

in P200:

Standards referred to: .

EN 1439:1996: Transportable refillable welded steel cylinders for liquefied petroleum gases (LPG) - Procedures for checking before, during and after refilling (ADR only)

EN 1440:1996: Transportable refillable welded steel cylinders for liquefied petroleum gases (LPG) - Periodic requalification

Standards to refer to:

WI n°	Doc ref	Title of document	Comments
23039	prEN 13096	Conditions for filling gases into cylinders -Single component gases	
23060	prEN 13099	Filling conditions for gas mixtures at time of filling (including list of gases)	
23062	EN 1801:1998	Filling conditions for single acetylene cylinders	submitted to Joint Meeting Sep. 97 in <i>Trans/WP.15/AC.1/1997/70</i> resubmitted at JM Sep.98 in <i>Trans/WP.15/AC.1/1998/40</i>
[23063]	prEN 12755	Filling conditions for acetylene bundles	submitted to Joint Meeting Sep. 97 in <i>Trans/WP.15/AC.1/1997/70</i>
286033		LPG cylinders- Filling procedures	

In P203:

Standards to refer to:

WI n°	Doc ref	Title of document	Comments
[268002]	prEN 1251-3	Cryogenic vessels-cap<1000l -operational requirements	To be submitted]

In P204:

Standards referred to: .

- for aerosol dispensers (1950 aerosols):Annex to the **Council Directive 75/324/EEC** as amended bc Commission Directive 94/1/EC

- for 2037 gas cartridges containing 1965 hydrocarbon gas mixture, liquefied:

EN 417: 1992 Non-refillable metallic gas cartridges for liquefied petroleum gases, with or without a valve, for use with portable appliances - Construction, inspection, testing and marking

4.1.6 Special packing provisions for goods of Class 2

Standards referred to: .

EN 962: 1996 Valve protection caps and valve guards for industrial and medical gas cylinders- design, construction and tests

Standards to refer to:

WI n°	Doc ref	Title of document	Comments
23059	EN 1795:1997	Gas cylinders (excluding LPG) - Procedures for change of gas	submitted to Joint Meeting Sep.98 in TRANS/WP.15/1998/40
23083	prEN962:1996/prA1	Valve protection caps and valve guards for industrial and medical gas cylinders-design, construction and tests	
23085		Valve protection caps and valve guards for industrial and medical gas and medical gas cylinders- design, construction and tests	

4.2 Use of UN portable tanks

no CEN standard foreseen

4.3 Use of fixed tanks, tank-vehicles, demountable tanks, battery vehicles and RID/ADR tank-containers

Standards to refer to:

WI n°	Doc ref	Title of document	Comments
23071		Filling conditions for acetylene cylinder battery trailers	
268023		Large transportable non-vacuum insulated vessels -Part 3: Operational requirements	
268026	prEN 13530-3	Large transportable vacuum insulated vessels -Part 3: Operational requirements	
286022		Filling and discharge procedures for LPG road tankers	
286026		Discharge procedures for LPG rail tankers	
296015		Tanks for transport of liquid dangerous goods with vapour pressure not exceeding 110 kPa	

Part 5 Consignments procedures

5.2 Marking and labelling of packages

Standards to refer to:

WI n°	Doc ref	Title of document	Comments
	ISO 7225:1994	Precautionary labels for gas cylinders-Design, content and	Submitted by EIGA in <i>Trans/WP15/AC.1/1999/28.</i>
286035		LPG cylinders - Labelling requirements	

Part 6 Requirements for the construction and testing of packagings, IBCs and tanks

6.1 Requirements for the construction and testing of packagings

Standards to refer to:

WI n°	Doc ref	Title of document	Comments
261258		Packaging - Transport packages for dangerous goods - Leak proof testing	
261255	ISO/NP16104	Packaging - Transport packages for dangerous goods - Test methods for packaging	
261231	ISO/NP 16101	Packaging - Transport packages for dangerous goods - Plastics compatibility testing	
261232	ISO/NP 16106	Packaging - Transport packages for dangerous goods - Quality assurance programmes for the manufacture and testing of packaging and IBCs	
261999		Packaging - Transport packages for dangerous goods - Recycled plastics material	item number to be verified

6.2 Requirements for the construction and testing of receptacles, aerosols and cartridges for gases

Standards referred to:

for aerosol dispensers

Annex to Council Directive 75/324/EEC as amended by Commission Directive 94/1/EC

for gas cartridges

EN 417:1992

for Cylinders

Annex I, Parts 1 to 3 to 84/525/EEC: Council directive on the approximation on the laws of the Member States relating to seamless steel gas cylinders

Annex I, Parts 1 to 3 and Annex II to 84/526/EEC: Council directive on the approximation on the laws of the Member States relating to welded unalloyed steel gas cylinders

Annex I, Parts 1 to 3 to 84/527/EEC: Council directive on the approximation on the laws of the Member States relating to seamless, unalloyed aluminium and aluminium alloy gas cylinders

EN 1089-1:1996 Gas cylinder identification Part 1: Stampmarking

EN 849:1996 (except Annex A) Cylinder valves: Specifications and type testing

WI n°	Doc ref	Title of document	Comments
23005	EN 1964-1:1999	Seamless steel gas cylinders: 0.5l < cap < 150l	submitted to Joint Meeting Sep. 97 TRANS/WP.15/AC.1/1997/70 resubmitted at JM Sep. 98 in TRANS/WP.15/AC.1/1998/40
23006	prEN 13293	Seamless steel gas cylinders: cap < 1l	
23007	EN ISO 11120:1999	Seamless steel gas cylinders: 150l < cap < 3000l	submitted to Joint Meeting Sep. 97 in TRANS/WP.15/AC.1/1997/70 resubmitted at JM Sep. 98 in TRANS/WP.15/AC.1/1998/40
23008	prEN 13322-1	Welded steel gas cylinders - Design and construction	
23009	prEN 13322-2	Welded stainless steel gas cylinders - Design and construction	
23010	EN 1975:1999	Seamless aluminium alloy gas cylinders: 0.5l < cap < 150l	submitted to Joint Meeting Sep. 97 in TRANS/WP.15/AC.1/1997/70 resubmitted at JM Sep. 98 in in TRANS/WP.15/AC.1/1998/40
23012	prEN 12862	Welded aluminium alloy gas cylinders:	submitted to Joint Meeting Sep. 97 in TRANS/WP.15/AC.1/1997/70 resubmitted at JM Sep. 98 in in TRANS/WP.15/AC.1/1998/40
23013	prEN 12245	Fully wrapped composite cylinders	
23014	prEN 12205	Non refillable metallic gas cylinders	To be submitted
23017	prEN ISO 13340	Cylinder valves for non-refillable cylinders - Specifications and type testing testing	
23036	EN ISO 11114-1:1997	Compatibility of cylinder and valve materials with gas contents- Part 1: Metallic materials	submitted to Joint Meeting Sep. 97 in TRANS/WP.15/AC.1/1997/70 resubmitted at JM Sep. 98 in in TRANS/WP.15/AC.1/1998/40
[23037]	prEN ISO 11114-2	Compatibility of cylinder and valve materials with gas contents- Part 2: Non-metallic materials	submitted to Joint Meeting Sep. 97 in TRANS/WP.15/AC.1/1997/70 resubmitted at JM Sep. 98 in TRANS/WP.15/AC.1/1998/40
23040	prEN 1968	Periodic inspection and testing of seamless steel gas cylinders (excluding LPG)	
23050	prEN 12257	Seamless, hoop wrapped composite cylinders -specification	
[23051]	prEN 1964-3	Seamless stainless steel cylinders: 0.5l < cap < 150l	submitted to Joint Meeting Sep. 97 in TRANS/WP.15/AC.1/1997/70 resubmitted at JM Sep. 98 in TRANS/WP.15/AC.1/1998/40
23052	prEN ISO 11623	Periodic inspection and testing of composite gas cylinders	
23053	prEN 1964-2	High strength seamless steel cylinders: 0.5l < cap < 150l	
23054		Welded steel drums: cap < 1000l	
23057	prEN 12863	Periodic inspection and maintenance of acetylene cylinders	submitted to Joint Meeting Sep. 97
23061	EN 1800:1998	Acetylene cylinders- Basic requirements and definitions	submitted to Joint Meeting Sep. 97 in in TRANS/WP.15/AC.1/1997/70 resubmitted at JM Sep. 98 in TRANS/WP.15/AC.1/1998/40
23064	prEN 1802	Periodic inspection and testing of seamless aluminium gas cylinders (excluding LPG)	
23065	prEN 1803	Periodic inspection and testing of welded steel gas cylinders (excluding LPG)	
23069		Cylinder bundles -Design, manufacture, identification and testing	
23075		Transportable gas cylinders - High porosity porous masses for acetylene acetylene cylinders	
23076	849:1996/A1:1999	Cylinder valves: Specifications and type testing - Amendment 1	
23077	849:1996/prA2	Cylinder valves: Specifications and type testing - Amendment 2	
23079		Gas cylinder identification Part 1: Stampmarking - Amendment 1	
23084		Transportable gas cylinders - Gas cylinder valves - Inspection and maintenance	

[268019]	prEN 1251-1	Cryogenic vessels- vacuum insulated - cap.<1000l -Part 1: Fundamental requirements	to be submitted]
[268020]	prEN 1251-2	Cryogenic vessels- vacuum insulated - cap.<1000l -Part 2: Design, fabrication, inspection and testing	to be submitted]
286001	EN 1442:1998	Transportable refillable welded steel cylinders for LPG- Design and construction	submitted to JM Sep 98 in
			TRANS/WP.15/AC.1/1998/40
286002	prEN 12807	Transportable refillable brazed steel cylinders for LPG- Design and construction	
286003		Design and manufacture of non-refillable transportable welded steel cylinders for LPG	
286009	prEN 13152	Specifications and testing for LPG cylinder valves: Self closing	
286010	prEN 13153	Specifications and testing for LPG cylinder valves: Manually operated	
286032		Brazed steel cylinders for LPG - Periodic requalification	
286037	prEN 13110	Welded aluminium cylinders for LPG - Design and construction	

6.3 Requirements for the construction and testing of packagings for Class 6.2 substances

Standards to refer to:

WI n°	Doc ref	Title of document	Comments
261255	ISO/NP16104	Packaging - Transport packages for dangerous goods - Test methods for packaging	
261231	ISO/NP 16101	Packaging - Transport packages for dangerous goods - Plastics compatibility testing	
261232	ISO/NP 16106	Packaging - Transport packages for dangerous goods - Quality assurance programme for the manufacture and testing of packaging and IBCs	
261999		Packaging - Transport packages for dangerous goods - Recycled plastics material	item number to be verified

6.5 Requirements for the construction and testing of intermediate bulk containers (IBC's),

Standards to refer to:

WI n°	Doc ref	Title of document	Comments
261206		Packaging - Transport packages for dangerous goods -Test	
261231	ISO/NP 16101	Packaging - Transport packages for dangerous goods - Plastics	
261232	ISO/NP 16106	Packaging - Transport packages for dangerous goods - Quality assurance programme for the manufacture and testing of packagings and IBCs	
261999		Packaging - Transport packages for dangerous goods - Recycled plastics material	item number to be verified

6.8 Requirements for the construction and testing of fixed tanks (tank-vehicles), demountable tanks, battery-vehicles and RID/ADR tank-containers

Standards referred to:

ISO R 148

Standards to refer to:

WI n°	Doc ref	Title of document	Comments
23070		Cylinder battery trailers -design, manufacture, identification and testing	
256033	EN 12561-1:1998	Railway applications - Tank wagons - Part1: Marking of tank wagons for the carriage of dangerous	To be submitted
256034	prEN 12561-2	Railway applications - Tank wagons - Part 2: Bottom emptying devices for liquid products	
256035	prEN 12561-3	Railway applications - Tank wagons - Part 3: Bottom filling and emptying devices for gases liquefied under pressure	
256036	prEN 12561-4	Railway applications - Tank wagons - Part 4: Top devices for top emptying and filling of liquid	
256064	prEN 12561-5	Railway applications - Tank wagons - Part 5: Top devices for bottom emptying and top filling of liquid products	
256065	prEN 12561-6	Railway applications - Tank wagons - Part 6: Manholes .	
268003		Large transportable non-vacuum insulated vessels- part 1: Fundamental requirements	
268004	prEN 13530-1	Large transportable vacuum insulated vessels- part 1: Fundamental requirements	
268007	EN 1797-1: 1998	Cryogenic vessels-Gas/material compatibility -Part 1: Oxygen compatibility	submitted to JM Sep.98
268008	EN 1252-1: 1998	Cryogenic vessels -Materials-Part 1: Toughness requirements for temperature below -80°C	submitted to JM Sep.98
268022		Large transportable non-vacuum insulated vessels -Part 2: Design, fabrication, inspection and testing	
268025	prEN 13530-2	Large transportable vacuum insulated vessels -Part 2: Design, fabrication, inspection and testing	

268036	prEN 1252-2	Mechanical properties for material at low temperature - Part 2: For temperatures between -80°C to 10°C	
268039		Cryogenic vessels - Safety devices for protection against excessive pressure - Part 1: Safety valves for cryogenic services	
268040		Cryogenic vessels - Safety devices for protection against excessive pressure - Part 2: Bursting discs for cryogenic services	
268041		Cryogenic vessels - Safety devices for protection against excessive pressure - Part 3: Determination required discharge capacity and sizing for relief devices	
286007	prEN 12493	Design and manufacture of welded steel tanks for LPG road tankers.	technical comments;
286008		Design and manufacture of welded steel tanks for LPG rail tankers.	
286021	prEN 12252	Equipping of LPG road tankers	
286024		Requalification procedures for LPG road tankers	
286028		Requalification procedures for LPG rail tankers	
286045		Pressure relief valves for LPG tanks	
296002	prEN 13094	Non-pressure metallic tanks for transport of dangerous goods -Design and construction	
296003		Tanks for transport of dangerous goods -P >50 kPa - design and construction	
296008	prEN 13314	Tanks for transport of dangerous goods - Service equipment - Fill hole cover	
296011	prEN 13308	Tanks for transport of liquid dangerous goods - Tanks with vapour pressure not exceeding 110kPa	
296014		Tanks for transport of liquid dangerous goods - Tanks with vapour pressure not exceeding 110 kPa	
296018	prEN 12972	Tanks for transport of dangerous goods - Testing, inspection and marking of metallic tanks.	
296020	prEN 13316	Tanks for transport of liquid dangerous goods - Tanks with vapour pressure not exceeding 110kPa	
296027	prEN 13317	Tanks for transport of dangerous goods - Service equipment - Manhole cover assembly	