

COMMITTEE OF EXPERTS ON THE TRANSPORT OF DANGEROUS GOODS AND ON THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS

Sub-Committee of Experts on the Globally Harmonized System of Classification and Labelling of Chemicals

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IMPLEMENTATION OF THE GHS

Implementation through Transport of Dangerous Goods Regulations

Note by the secretariat

The secretariat reproduces below a table concerning the status of implementation of the first revised edition of the GHS through the 14th revised edition of the UN Model Regulations on the Transport of Dangerous Goods and the major legal international instruments regulating transport of dangerous goods applicable during the period 2007-2008:

By sea: International Maritime Dangerous Goods Code (IMDG Code)

Amendment 33-06 is harmonized (except as otherwise specified in the table hereafter) with the 14th revised edition of the UN Model Regulations and will enter into force as from 1 January 2008, being applicable on a voluntary basis as from 1 January 2007. The IMDG Code is of mandatory application for 158 countries.

By air: ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air

The 2007-2008 edition of the ICAO TI is harmonized (except as otherwise specified in the table hereafter) with the 14th revised edition of the UN Model Regulations and entered into force on 1 January 2007. (The ICAO TI are of mandatory application for 188 countries).

Land transport:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

(43 Contracting Parties) (the annexed regulations are also of mandatory application for domestic traffic in EU and EEA countries through European directive 94/55/EC¹, as amended).

RID: Regulations concerning the International Transport of Dangerous Goods by Rail

(42 Contracting Parties) (also of mandatory application for domestic traffic in EU and EEA countries through European directive 96/49/EC¹, as amended).

¹ Current EU legislation governing land transport of dangerous goods covers road and rail modes only (i.e. there is no EU legislation for transport of dangerous goods by inland waterways). The European Commission has recently finished the drafting of a new directive on inland transport of dangerous goods which will be applicable to all land transport modes (road, rail and inland waterways). The new directive will supersede current directives 94/55/EC (ADR) and 96/49/EC (RID) and will repeal two directives on dangerous goods safety advisers (Directive 96/35/EC and 2000/18/EC).

It is expected that the new directive on inland transport of dangerous goods be adopted before the end of 2007.

ADN¹: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

At present, the agreement has 6 Contracting States and is not yet in force, although its provisions are already applicable on the Rhine (ADNR) and on the Danube (ADND), but it is expected that it will enter into force before the end of 2007 (only one more ratification needed).

The 2007 edition of ADR/RID/ADN is harmonized (except as otherwise specified in the table hereafter) with the 14th revised edition of the UN Model Regulations and entered into force on 1 January 2007.

For the transport of dangerous goods, the second revised edition of the GHS will be implemented through the 15th revised edition of the UN Model Regulations on the Transport of Dangerous Goods whose provisions will enter into force through the relevant legal international instruments mentioned hereinbefore, during the period 2009-2010.

The second revised edition of the GHS and the 15th revised edition of the UN Model Regulations are being published.

¹ Current EU legislation governing land transport of dangerous goods covers road and rail modes only (i.e. there is no EU legislation for transport of dangerous goods by inland waterways). The European Commission has recently finished the drafting of a new directive on inland transport of dangerous goods which will be applicable to all land transport modes (road, rail and inland waterways). The new directive will supersede current directives 94/55/EC (ADR) and 96/49/EC (RID) and will repeal two directives on dangerous goods safety advisers (Directive 96/35/EC and 2000/18/EC).

It is expected that the new directive on inland transport of dangerous goods be adopted before the end of 2007.

GHS hazards addressed in transport regulations	Model Regulations (Rev.14)	IMDG Code	ICAO TI	RID/ADR/ADN
		Amendment 33-06 ²	(2007-2008 Edition) ³	2007 Edition ⁴
Chapter 2.1: Explosives	(Class 1)	(Class 1)	(Class 1)	(Class 1)
Divisions 1.1 to 1.6	Done (Divisions 1.1 to 1.6)	Already applicable	Already applicable	Already applicable
Chapter 2.2: Flammable gases	(Class 2, Division 2.1)	(Class 2, Division 2.1)	(Class 2, Division 2.1)	(Class 2, Division 2.1)
Category 1	Done	Already applicable	Already applicable	Already applicable
Category 2	<i>Not applicable</i>	<i>Not applicable</i>	<i>Not applicable</i>	<i>Not applicable</i>
Chapter 2.3: Flammable aerosols	(Class 2)	(Class 2)	(Class 2)	(Class 2)
Category 1	Done	Already applicable	Already applicable	Already applicable
Category 2	Done	Already applicable	Already applicable	Already applicable
Chapter 2.4: Oxidizing gases	(Division 2.2 gases)	(Division 2.2 gases)	(Division 2.2 gases)	(Division 2.2 gases)
Category 1	Done	Already applicable	Already applicable	Already applicable
Chapter 2.5: Gases under pressure	(Class 2)	(Class 2)	(Class 2)	(Class 2)
Compressed gases	Done	Already applicable	Already applicable	Already applicable
Liquefied gases	Done	Already applicable	Already applicable	Already applicable
Refrigerated liquefied gases	Done	Already applicable	Already applicable	Already applicable
Dissolved gases	Done	Already applicable	Already applicable	Already applicable
Chapter 2.6: Flammable liquids	(Class 3)	(Class 3)	(Class 3)	(Class 3)
Category 1	Done (PGI)	Already applicable	Already applicable	Already applicable
Category 2	Done (PGII)	Already applicable	Already applicable	Already applicable
Category 3	Done	Done	Done	Done
Category 4	<i>Not applicable</i>	<i>Not applicable</i>	<i>Not applicable</i>	<i>Not applicable</i>

² Amendment 33-06 to the IMDG Code will enter into force on 1 January 2008 without transitional period but may be applied, on a voluntary basis, totally or partially, as from 1 January 2007.

³ The 2007-2008 edition of the ICAO TI entered into force on 1 January 2007.

⁴ The 2007 version of the RID/ADR/ADN entered into force on 1 January 2007 (with a six-month transitional period).

GHS hazards addressed in transport regulations	Model Regulations (Rev.14)	IMDG Code	ICAO TI	RID/ADR/ADN
		Amendment 33-06 ²	(2007-2008 Edition) ³	2007 Edition ⁴
Chapter 2.7: Flammable solids	(Class 4, Division 4.1)	(Class 4, Division 4.1)	(Class 4, Division 4.1)	(Class 4, Division 4.1)
Category 1	Done (PG II)	Already applicable	Already applicable	Already applicable
Category 2	Done (PG III)	Already applicable	Already applicable	Already applicable
Chapter 2.8: Self-reactive substances	(Class 4, Division 4.1)	(Class 4, Division 4.1)	(Class 4, Division 4.1)	(Class 4, Division 4.1)
Types A to G	Done	Already applicable	Already applicable	Already applicable
Chapter 2.9: Pyrophoric liquids	(Class 4, Division 4.2)	(Class 4, Division 4.2)	(Class 4, Division 4.2)	(Class 4, Division 4.2)
Category 1	Done (PG I)	Already applicable	Already applicable	Already applicable
Chapter 2.10: Pyrophoric solids	(Class 4, Division 4.2)	(Class 4, Division 4.2)	(Class 4, Division 4.2)	(Class 4, Division 4.2)
Category 1	Done (PG I)	Already applicable	Already applicable	Already applicable
Chapter 2.11: Self-heating substances	(Class 4, Division 4.2)	(Class 4, Division 4.2)	(Class 4, Division 4.2)	(Class 4, Division 4.2)
Category 1	Done (PG II)	Already applicable	Already applicable	Already applicable
Category 2	Done (PG III)	Already applicable	Already applicable	Already applicable
Chapter 2.12: Substances which, in contact with water, emit flammable gases	(Class 4, Division 4.3)	(Class 4, Division 4.3)	(Class 4, Division 4.3)	(Class 4, Division 4.3)
Category 1	Done (PGI)	Already applicable	Already applicable	Already applicable
Category 2	Done (PGII)	Already applicable	Already applicable	Already applicable
Category 3	Done (PGIII)	Already applicable	Already applicable	Already applicable
Chapter 2.13: Oxidizing liquids	(Class 5, Division 5.1)	(Class 5, Division 5.1)	(Class 5, Division 5.1)	(Class 5, Division 5.1)
Category 1	Done (PGI)	Already applicable	Already applicable	Already applicable
Category 2	Done (PGII)	Already applicable	Already applicable	Already applicable
Category 3	Done (PGIII)	Already applicable	Already applicable	Already applicable
Chapter 2.14: Oxidizing solids	(Class 5, Division 5.1)	(Class 5, Division 5.1)	(Class 5, Division 5.1)	(Class 5, Division 5.1)
Category 1	Done (PGI)	Already applicable	Already applicable	Already applicable
Category 2	Done (PGII)	Already applicable	Already applicable	Already applicable
Category 3	Done (PGIII)	Already applicable	Already applicable	Already applicable

GHS hazards addressed in transport regulations		Model Regulations (Rev.14)	IMDG Code	ICAO TI	RID/ADR/ADN
			Amendment 33-06 ²	(2007-2008 Edition) ³	2007 Edition ⁴
Chapter 2.15: Organic peroxides		(Class 5, Division 5.2)	(Class 5, Division 5.2)	(Class 5, Division 5.2)	(Class 5, Division 5.2)
	Types A to G	Done	Already applicable	Already applicable	Already applicable
Chapter 2.16: Corrosive to metals		Class 8	Class 8	Class 8	Class 8
	Category 1	Done (PGIII if not corrosive to skin)	Already applicable	Already applicable	Already applicable
Chapter 3.2: Skin corrosion		Class 8	Class 8	Class 8	Class 8
Category 1	Subcategory: 1A	Done (PGI)	Already applicable	Already applicable	Already applicable
	Subcategory: 1B	Done (PGII)	Already applicable	Already applicable	Already applicable
	Subcategory: 1C	Done (PGIII)	Already applicable	Already applicable	Already applicable
Chapter 3.1: Acute toxicity (Liquids and solids)		Class 6 (Division 6.1)	Class 6 (Division 6.1)	Class 6 (Division 6.1)	Class 6 (Division 6.1)
	Category 1	Done	Done	Done	Done
	Category 2	Done	Done	Done	Done
	Category 3	Done	Done	Done	Done
	Category 4	<i>Not applicable</i>	<i>Not applicable</i>	<i>Not applicable</i>	<i>Not applicable</i>
	Category 5	<i>Not applicable</i>	<i>Not applicable</i>	<i>Not applicable</i>	<i>Not applicable</i>
Chapter 3.1: Acute toxicity (Gases)		Division 2.3	Division 2.3	Division 2.3	Class 2 (Groups T, TF, TC TO, TFC, TOC)
	Category 1	Done	Done	Done	Done
	Category 2	Done	Done	Done	Done
	Category 3	Done	Done	Done	Done
	Category 4	<i>Not applicable</i>	<i>Not applicable</i>	<i>Not applicable</i>	<i>Not applicable</i>
	Category 5	<i>Not applicable</i>	<i>Not applicable</i>	<i>Not applicable</i>	<i>Not applicable</i>

GHS hazards addressed in transport regulations		Model Regulations (Rev.14)	IMDG Code	ICAO TI	RID/ADR/ADN
			Amendment 33-06 ²	(2007-2008 Edition) ³	2007 Edition ⁴
Chapter 4.1: Environmental hazards		Class 9	Class 9	Class 9	Class 9
Acute toxicity	Acute 1	Done *	Not done**	Done *, but optional	Not done ****
	Acute 2	Not applicable ***	Not applicable	Not applicable	Not applicable
	Acute 3	Not applicable ***	Not applicable	Not applicable	Not applicable
Chronic toxicity	Chronic 1	Done *	Not done**	Done *, but optional	Not done ****
	Chronic 2	Done *	Not done**	Done *, but optional	Not done ****
	Chronic 3	Not applicable ***	Not applicable	Not applicable	Not applicable
	Chronic 4	Not applicable ***	Not applicable	Not applicable	Not applicable

* Labelling required only if no other danger.

** Will be done through Amdt. 34-08 (Voluntary application as from 1 January 2009 - Mandatory application as from 1 January 2010). MARPOL Convention will be amended accordingly.

*** Categories addressed only for carriage in very large quantities (sea-going chemical tankers or inland navigation tank-vessels). The GHS criteria have been taken into account in the IMO criteria for the evaluation of safety and pollution hazards of chemicals in the context of the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (CIBC Code) and Annex II to the MARPOL 73/78 Convention (See also GESAMP Report and Studies No.64, available on the IMO public website <http://gesamp.imo.org/publicat.htm>). The application of the GHS criteria for the carriage of dangerous liquids in bulk in tank-vessels is also presently under consideration for ADN and could become effective on 1 January 2009.

**** To be discussed in September 2007 for possible application as from 1 January 2009.