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ECONOMIC COMMISSION FOR EUROPE

INLAND TRANSPORT COMMITTEE

Working Party on Transport Statistics  
(Fifty-second session, 14-16 November 2001,  
agenda item 5 (c))

**METHODOLOGICAL DEVELOPMENT AND  
HARMONIZATION OF TRANSPORT STATISTICS**

**Harmonization of Statistics on the Transport of Dangerous Goods**

**Transmitted by Eurostat**

I. BACKGROUND AND MANDATE

1. At its fifty first session (24-26 October 2000), the Working Party asked Eurostat to prepare a paper on the results of the new Road Regulation, including data on transport of dangerous goods by road, and submit it to the Working Party for consideration at its fifty-second session, in order to allow the Working Party to consider the implications for non-EU ECE member countries (TRANS/WP.6/139, para. 24). In accordance with the Working Party's request, Eurostat produced the document below for consideration by the Working Party.

II. INTRODUCTION

2. Road freight transport information was collected in the European Union until 1998 on the basis of Council Directive (78/546/EEC) of 12 June 1978 on statistical returns in respect of the carriage of goods by road, as part of regional statistics. This Directive was amended by Council Directive (89/462/EEC) of 18 July 1989. None of these legal acts permitted the collection of information about dangerous goods being transported. The only distinction of the type of goods surveyed was the NST/R classification not indicating if a type of goods is dangerous. Since 1999 road freight transport information is based on Council Regulation (EC) 1172/98 of 25 May 1998 on statistical returns in respect of the carriage of goods by road. This regulation foresees for the first time the collection of information on the categories of dangerous goods being transported by road hauliers. If applicable this variable is obligatory.

### III. CLASSIFICATION OF CATEGORIES OF DANGEROUS GOODS

3. Annex E of Council Regulation (EC) 1172/98 provides for the categories to be used for the classification of dangerous goods:

- 1 Explosives
- 2 Gases, compressed, liquefied or dissolved under pressure
- 3 Flammable liquids
- 4.1 Flammable solids
- 4.2 Substances liable to spontaneous combustion
- 4.3 Substances which, in contact with water, emit flammable gases
- 5.1 Oxidising substances
- 5.2 Organic peroxides
- 6.1 Toxic substances
- 6.2 Substances liable to cause infections
- 7 Radioactive material
- 8 Corrosives
- 9 Miscellaneous dangerous substances

4. Each category is either a class or a division of a class of the classification of types of dangerous goods as defined in Commission Directive 2001/7/EC of 29 January 2001 (Official Journal L 030 , 01/02/2001 P. 43 )<sup>1</sup>. These categories are taken from the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR, of 30 September 1957).

5. Member States' Competent National Authority (CNA) for the collection of road data collects the data. Countries use their own national surveys that are filled in by the road hauliers. The result is micro-data that refers to vehicles and their linked journeys and provides detailed information about various aspects of the goods transported.

6. The carriage of dangerous goods is closely controlled under stringent conditions in Europe. Hauliers engaged in this business will be conversant with the categories of the classification and should have no difficulty in allocating the correct code.

7. An alternative terminology for dangerous goods is "hazardous goods".

### IV. RESULTS FROM THE IMPLEMENTATION OF COUNCIL REGULATION (EC) 1172/98

8. The following tables provide an overview of information on dangerous goods received so far from Member States for 1999 and 2000. It should be noted that not all countries provide yet complete and correct data. The following tables include therefore only information for countries where the data was complete (all quarters of a year available for all variables) and correct (successful passing of the validation and consistency checks),

9. The data is presented as an aggregate of the following countries: Denmark, Germany, Spain, France and the United Kingdom.

10. Some of the cells are based on a small number of observations and therefore the statistical precision of the estimates is low.

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<sup>1</sup> Commission Directive 2001/7/EC adapting for the third time to technical progress Council Directive 94/55/EC on the approximation of the laws of the Member States with regard to the transport of dangerous goods by road (Official Journal, L 319, 12/12/1994 P. 7-13)

## Transport of dangerous goods, by type of dangerous goods

Reporting Countries: Denmark, France, Germany, Spain, United Kingdom

Year: 1999

	1000 tonnes	%	Million tonne-km	%	Million vehicle-km	%
<b>1 Explosives</b>	1 133	0,3	130	0,3	15	0,6
<b>2 Gases,compressed,liquified,dissolved under pressure</b>	37 611	10,0	4 880	12,1	478	18,0
<b>3 Flammable liquids</b>	258 340	69,0	23 692	59,0	1 483	55,8
<b>4.1 Flammable solids</b>	3 383	0,9	390	1,0	29	1,1
<b>4.2 Substances liable to spontaneous combustion</b>	19 636	5,2	1 766	4,4	82	3,1
<b>4.3 Substance emitting flammable gases (with water)</b>	516	0,1	110	0,3	3	0,1
<b>5.1 Oxidising substances</b>	6 328	1,7	1 099	2,7	55	2,1
<b>5.2 Organic peroxides</b>	277	0,1	15	0,0	2	0,1
<b>6.1 Toxic substances</b>	4 283	1,1	680	1,7	46	1,7
<b>6.2 Substances liable to cause infections</b>	274	0,1	34	0,1	6	0,2
<b>7 Radioactive material</b>	232	0,1	25	0,1	1	0,0
<b>8 Corrosives</b>	23 942	6,4	4 652	11,6	265	10,0
<b>9 Miscellaneous dangerous substances</b>	18 409	4,9	2 695	6,7	195	7,3
<b>TOTAL</b>	374 363	100,0	40 169	100,0	2 659	100,0
<b>Total transport :</b>	7 758 898		809 900		89 823	
<b>% (Total dangerous goods/Total transport)</b>	4,8 %		5,0 %		3,0 %	

Provisional data - do not quote

## Transport of dangerous goods, by type of dangerous goods

Reporting Countries: Denmark, France, Germany, Spain, United Kingdom

Year: 2000

	1000 tonnes	%	Million tonne-km	%	Million vehicle-km	%
<b>1</b> Explosives	2 158	0,6	138	0,3	14	0,5
<b>2</b> Gases, compressed, liquified, dissolved under pressure	37 921	9,9	5 037	11,8	472	17,9
<b>3</b> Flammable liquids	266 397	69,6	25 013	58,8	1 452	55,2
<b>4.1</b> Flammable solids	3 989	1,0	636	1,5	47	1,8
<b>4.2</b> Substances liable to spontaneous combustion	17 862	4,7	2 084	4,9	101	3,8
<b>4.3</b> Substance emitting flammable gases (with water)	207	0,1	35	0,1	1	0,0
<b>5.1</b> Oxidising substances	7 383	1,9	1 372	3,2	61	2,3
<b>5.2</b> Organic peroxides	196	0,1	16	0,0	0	0,0
<b>6.1</b> Toxic substances	4 598	1,2	995	2,3	52	2,0
<b>6.2</b> Substances liable to cause infections	812	0,2	53	0,1	11	0,4
<b>7</b> Radioactive material	303	0,1	57	0,1	4	0,1
<b>8</b> Corrosives	25 236	6,6	4 772	11,2	284	10,8
<b>9</b> Miscellaneous dangerous substances	15 783	4,1	2 317	5,4	130	5,0
<b>TOTAL</b>	382 843	100,0	42 525	100,0	2 629	100,0
<b>Total transport :</b>	7 756 577		825 555		90 382	
<b>% (Total dangerous goods/Total transport)</b>	4,9 %		5,2 %		2,9 %	

Provisional data - do not quote

## Evolution of transport of dangerous goods, by type of dangerous goods 1999-2000

Reporting Countries: Denmark, France, Germany, Spain, United Kingdom

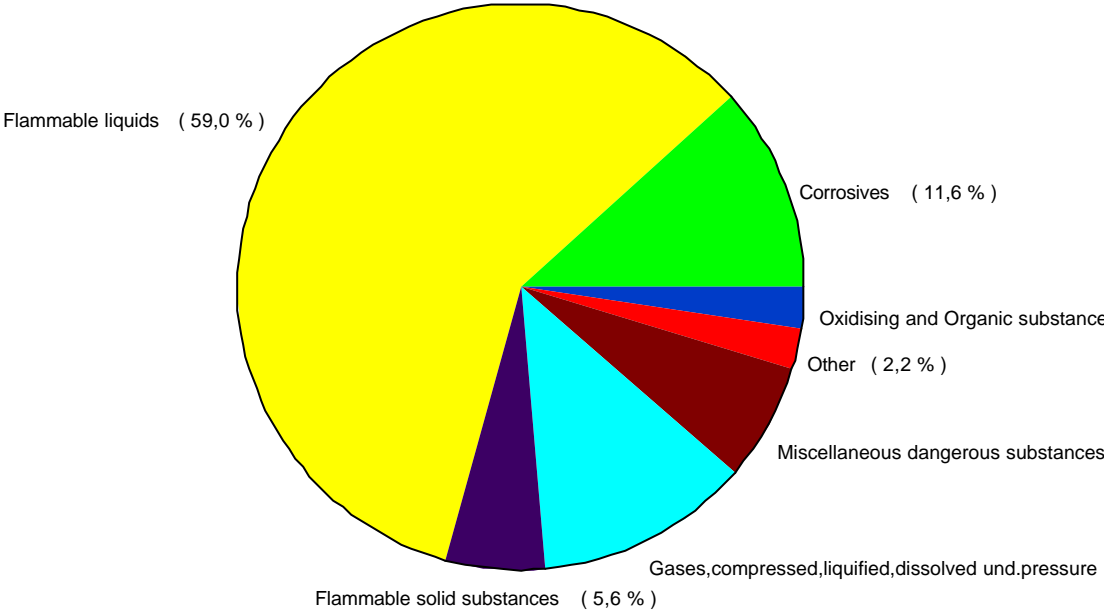
	1000 tonnes (%)	Million tonne-km (%)	Million vehicle-km (%)
<b>1 Explosives</b>	90,6	6,1	-9,4
<b>2 Gases,compressed,liquified,dissolved und er pressure</b>	0,8	3,2	-1,3
<b>3 Flammable liquids</b>	3,1	5,6	-2,1
<b>4.1 Flammable solids</b>	17,9	62,9	62,5
<b>4.2 Substances liable to spontaneous combustion</b>	-9,0	18,0	23,7
<b>4.3 Substance emitting flammable gases (with water)</b>	-60,0	-68,0	-58,2
<b>5.1 Oxidising substances</b>	16,7	24,9	9,8
<b>5.2 Organic peroxides</b>	-29,2	11,3	-83,1
<b>6.1 Toxic substances</b>	7,4	46,3	13,7
<b>6.2 Substances liable to cause infections</b>	196,7	57,9	105,7
<b>7 Radioactive material</b>	30,5	124,7	263,2
<b>8 Corrosives</b>	5,4	2,6	7,2
<b>9 Miscellaneous dangerous substances</b>	-14,3	-14,0	-33,1
<b>TOTAL</b>	2,3	5,9	-1,1
<b>Total transport :</b>	-0,0	1,9	0,6

Provisional data - do not quote

Reporting Countries: Denmark, France, Germany, Spain, United Kingdom

Year: 1999

Unit: Million tonne-km



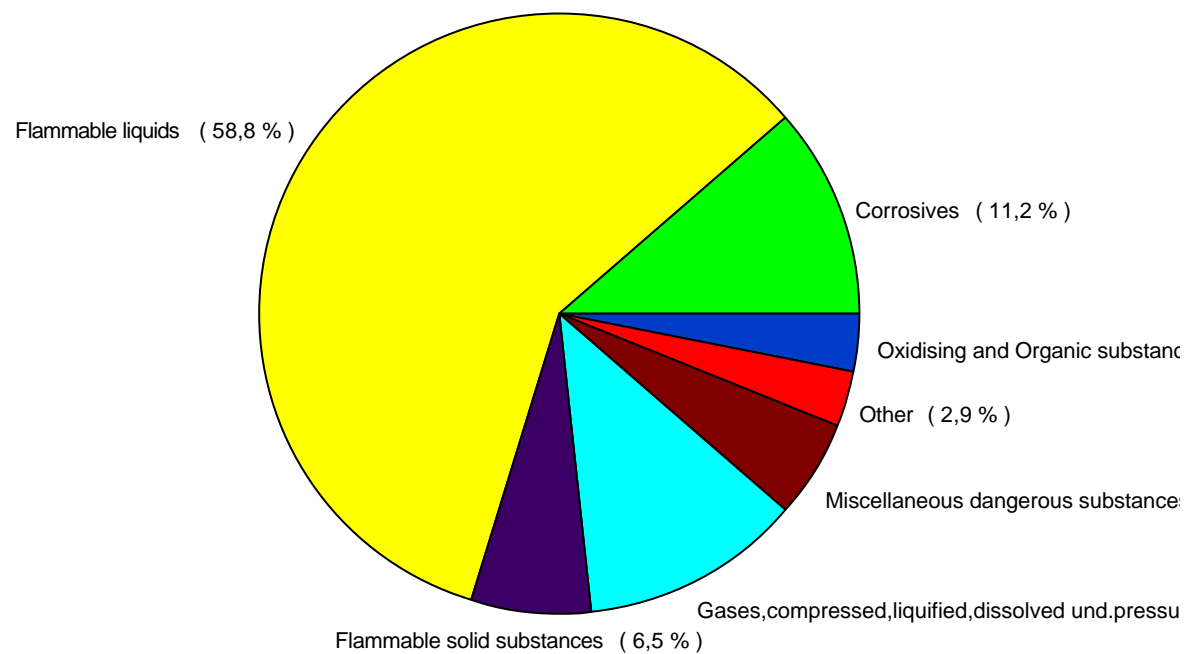
Provisional data - do not quote

Other: Explosives, Toxic substances, Substances liable to cause infections, Radioactive material

**Reporting Countries: Denmark, France, Germany, Spain, United Kingdom**

Year: 2000

Unit : Million tonne-km



Other: Explosives, Toxic substances, Substances liable to cause infections, Radioactive material

Provisional data - do not quote

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