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STATUTORY RULES OF NORTHERN IRELAND

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**1997 No. 360**

**HEALTH AND SAFETY**

**Carriage of Dangerous Goods (Classification, Packaging and Labelling) and Use of Transportable Pressure Receptacles (Amendment) Regulations (Northern Ireland) 1997**

*Made* - - - - *1st August 1997*  
*Coming into operation* *8th September 1997*

The Department of Economic Development, being the Department concerned<sup>(1)</sup>, in exercise of the powers conferred by Articles 17(1) to (6), 20(2), 40(2) to (4), 54(1) and (2) and 55(2) of, and paragraphs 1(1) to (4), 2, 3(1), 5 and 15 of Schedule 3 to, the Health and Safety at Work (Northern Ireland) Order 1978<sup>(2)</sup> and of every other power enabling it in that behalf, after consultation in accordance with Articles 46(1) and 54(5) of that Order with the Health and Safety Agency for Northern Ireland and such other bodies as appeared to the Department to be appropriate, hereby makes the following Regulations:—

**Citation and commencement**

1.—(1) These Regulations may be cited as the Carriage of Dangerous Goods (Classification, Packaging and Labelling) and Use of Transportable Pressure Receptacles (Amendment) Regulations (Northern Ireland) 1997 and shall come into operation on 8th September 1997.

**Amendment of the Carriage of Dangerous Goods (Classification, Packaging and Labelling) and Use of Transportable Pressure Receptacles Regulations (Northern Ireland) 1997**

2. The Carriage of Dangerous Goods (Classification, Packaging and Labelling) and Use of Transportable Pressure Receptacles Regulations (Northern Ireland) 1997<sup>(3)</sup> shall be amended by substituting:

- (a) for Part I (Table of classifications and other particulars) of Schedule 1 (Classification and ascertainment of other particulars of dangerous goods) the Part I set out in Schedule 1 to these Regulations; and
- (b) for Part I (Ascertainment) of Schedule 2 (Subsidiary Hazard Signs) the Part I set out in Schedule 2 to these Regulations.

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(1) See Article 2(2) of S.I.1978/1039 (N.I. 9)

(2) S.I. 1978/1039 (N.I. 9) as modified by the Health and Safety at Work Order (Application to Environmentally Hazardous Substances) Regulations (Northern Ireland) 1996 (S.R. 1996 No. 525)

(3) S.R. 1997 No. 247

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Sealed with the Official Seal of the Department of Economic Development on

1st August 1997.


*Philip B. Strong*  
Assistant Secretary



SCHEDULE 1

Regulation 2(a)

“Part I


Table of classifications and other particulars

Column 1 Classification	Column 2 Hazardous properties	Column 3 Relevant properties	Column 4 Packing Group	Column 5 Class number	Column 6 Danger sign	Column 7 Optional lettering
Non-flammable, non-toxic gas	<p>A substance which—</p> <p>(a) at 50°C has a vapour pressure greater than 300 kilopascals absolute or is completely gaseous at 20°C at a standard pressure of 101.3 kilopascals;</p> <p>and</p> <p>(b) is carried at an absolute pressure of not less than 280 kilopascals or in liquefied form, other than a toxic gas or a flammable gas.</p>	—	—	2.2		COMPRESSED GAS

Column 1 Classification	Column 2 Hazardous properties	Column 3 Relevant properties	Column 4 Packing Group	Column 5 Class number	Column 6 Danger sign	Column 7 Optional lettering
Toxic gas	A substance which at 50°C has a vapour pressure greater than 300 kilopascals absolute or is completely gaseous at 20°C at a standard pressure of 101.3 kilopascals and which is toxic.	—	—	2.3		TOXIC GAS
Flammable gas	A substance which— (a) at 50°C has a vapour pressure greater than 300 kilopascals absolute or is completely gaseous at 20°C at a standard pressure of 101.3 kilopascals and is flammable; or (b) is packed in an aerosol	—	—	2.1		FLAMMABLE GAS

Column 1 Classification	Column 2 Hazardous properties	Column 3 Relevant properties	Column 4 Packing Group	Column 5 Class number	Column 6 Danger sign	Column 7 Optional lettering
	dispenser where that dispenser contains either —	(i) more than 45 per cent by mass of a flammable substance, or (ii) more than 250 grammes of a flammable substance,				
	and in this sub- paragraph flammable substance means a flammable gas or flammable liquid having a flash point less than or equal to 100°C.					

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Column 1 Classification	Column 2 Hazardous properties	Column 3 Relevant properties	Column 4 Packing Group	Column 5 Class number	Column 6 Danger sign	Column 7 Optional lettering
Flammable liquid	<p>A liquid with a flash point—</p> <p>(a) above 61°C and which is carried at a temperature above its flash point; or</p> <p>(b) of 61°C or below except —</p> <p>(i) a liquid which has a flash point equal to or more than 35°C, and when tested in accordance with the appropriate approved method does not support combustion, and</p>	<p>(a) (in III the case of any liquid having a flash point of less than 23°C and containing either not more than 5% of toxic or corrosive substances with a packing group of I or II or not more than 5% of flammable liquids with a packing group of I</p>		3		FLAMMABLE LIQUID

Column 1 Classification	Column 2 Hazardous properties	Column 3 Relevant properties	Column 4 Packing Group	Column 5 Class number	Column 6 Danger sign	Column 7 Optional lettering
	(ii) a	a	a			
		viscous	subsidiary			
		substance	hazard			
		which	of			
		complies	toxic			
		with	or			
		the	corrosive)			
		provisions	—			
		of		(i) less		
		Part		than		
		III		3%		
		and		of		
		is		it		
		contained		separates		
		in		out		
		a		into		
		receptacle		a		
		with		clear		
		a		solvent		
		capacity		layer		
		of		following		
		less		a		
		than		suitable		
		450		solvent		
		litres,		separation		
		or		test,		
	(iii) a	a	(ii) the			
		substance	flash			
		which	point			
		is	of			
		classified	it			
		as	is			
		a	specified			
		flammable	in			
		gas	column			
		because	1			
		it	of			
		has	the			
		the	Table			
		hazardous	set			
		properties	out			
		specified	in			
		in	Part			
		sub-	IV,			
		paragraph (b)	(iii) the			
		corresponding	kinematic			
		to	viscosity			
		the	of			
		entry	it			
		for				

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Column 1 Classification	Column 2 Hazardous properties	Column 3 Relevant properties	Column 4 Packing Group	Column 5 Class number	Column 6 Danger sign	Column 7 Optional lettering
		a “flammable gas” in column 1.	is within the range specified in column 2 of the Table set out in Part IV which is opposite to the flash point of that liquid referred to in head (ii), and  (iv) is contained in a receptacle with a capacity of less than 450 litres; or  (b) (in I the case			

Column 1 Classification	Column 2 Hazardous properties	Column 3 Relevant properties	Column 4 Packing Group	Column 5 Class number	Column 6 Danger sign	Column 7 Optional lettering
		of any other liquid) it has —				
			(i) an	II		
			initial boiling point not greater than 35°C,			
			(ii) an	II		
			initial boiling point above 35°C and a flash point of less than 23°C, or			
			(iii) an	III		
			initial boiling point above 35°C and a flash point of 23°C or above.			

Column 1 Classification	Column 2 Hazardous properties	Column 3 Relevant properties	Column 4 Packing Group	Column 5 Class number	Column 6 Danger sign	Column 7 Optional lettering
Flammable solid	(a) a solid which is— (b) water-under wetted conditions and encountered when in a carriage, dry is readily combustible or may cause or contribute to fire through friction; or (b) a self-reactive or related substance which is liable to undergo a strongly exothermic reaction; or (c) a desensitised explosive where the explosive properties have been suppressed.	A substance which is— (a) water-under wetted conditions and encountered when in a carriage, dry state) required to be classified (as defined by regulation 2(1) of the Classification and Labelling of Explosives Regulations (Northern Ireland) 1991) in pursuance of regulation 3(2) (a) of those Regulations;	I	4.1		FLAMMABLE SOLID

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7
Classification	Hazardous properties	Relevant properties	Packing Group	Class number	Danger sign	Optional lettering

(b) (i) Substance;  
or  
a  
self-reactive

(ii) a III  
readily  
combustible  
solid  
which,  
when  
ignited,  
burns  
very  
vigorously  
or  
intensely  
and is  
difficult  
to  
extinguish;

(c) a  
readily  
combustible  
solid  
which  
when  
ignited  
burns  
vigorously  
or  
intensely.

Spontaneously  
combustible  
substance

A substance which is liable to spontaneous heating under conditions encountered in carriage or to heating in contact with air being then liable to catch fire.

A substance which is—  
(a) a pyrophoric substance which ignites instantly on contact with air;

4.2



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Column 1 Classification	Column 2 Hazardous properties	Column 3 Relevant properties	Column 4 Packing Group	Column 5 Class number	Column 6 Danger sign	Column 7 Optional lettering
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(b) liable to ignite on contact with air within a short space of time, particularly under conditions of spillage; or

(c) any other substance which is liable to ignite on contact with air.

Substance which in contact with water emits flammable gas

A substance which in contact with water is liable to become spontaneously combustible or to give off a flammable gas.


A substance which—  
(a) either reacts vigorously with water at ambient temperatures and demonstrates generally a tendency for the gas

4.3



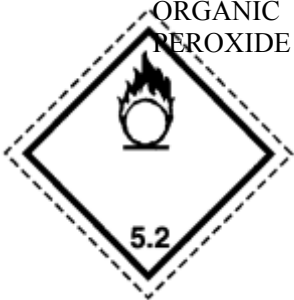

Column 1 Classification	Column 2 Hazardous properties	Column 3 Relevant properties	Column 4 Packing Group	Column 5 Class number	Column 6 Danger sign	Column 7 Optional lettering
		<p>produced to ignite spontaneously or reacts readily with water at ambient temperatures so that the rate of evolution of flammable</p> <p>(b) reacts readily with water at ambient temperatures so that the maximum rate of evolution of flammable gas is equal to or greater than 20 litres per kilogramme of substance per</p>				


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Column 1 Classification	Column 2 Hazardous properties	Column 3 Relevant properties	Column 4 Packing Group	Column 5 Class number	Column 6 Danger sign	Column 7 Optional lettering
		hour; or  (c) reacts slowly with water at ambient temperatures so that the maximum rate of evolution of flammable gas is greater than 1 litre per kilogramme of substance per hour.				
Oxidising substance	A substance other than an organic peroxide which, although not necessarily combustible, may by yielding oxygen or by a similar process cause or contribute to the combustion of other material.	A solid substance which, when mixed with cellulose in a ratio of either 1:4 or 1:1 by mass, exhibits a burning rate at least as fast as that for a— (a) 3:2 mixture by mass of	I	5.1		OXIDIZING AGENT

Column 1 Classification	Column 2 Hazardous properties	Column 3 Relevant properties	Column 4 Packing Group	Column 5 Class number	Column 6 Danger sign	Column 7 Optional lettering
		potassium bromate and cellulose;				
		(b) 2:3 II mixture by mass of potassium bromate and cellulose; or				
		(c) 3:7 III mixture by mass of potassium bromate and cellulose.				
		A liquid substance which, when mixed with cellulose in a ratio of 1:1 by mass, exhibits a pressure rise at least as fast as that of a 1:1 mixture by mass of—	I			
		(a) 50% perchloric acid and cellulose;				
		(b) 40% aqueous sodium chlorate solution				

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Column 1 Classification	Column 2 Hazardous properties	Column 3 Relevant properties	Column 4 Packing Group	Column 5 Class number	Column 6 Danger sign	Column 7 Optional lettering
		and cellulose; or (c) 65% aqueous nitric acid and cellulose.				
Organic peroxide	A substance which is— (a) an organic peroxide, and (b) an unstable substance which may undergo exothermic self-accelerating decomposition.	Any substance classified as an organic peroxide.	II	5.2		ORGANIC PEROXIDE
Toxic substance	A substance which is liable either to cause death or serious injury or to harm human health if swallowed or inhaled or by skin contact.	A substance which has been allocated to— (a) packing group I in accordance with the criteria set out in Part V; (b) packing group II in accordance with the	I	6.1		TOXIC

Column 1 Classification	Column 2 Hazardous properties	Column 3 Relevant properties	Column 4 Packing Group	Column 5 Class number	Column 6 Danger sign	Column 7 Optional lettering
		criteria set out in Part V; or	(c) packing group III in accordance with the criteria set out in Part V.			
Infectious substance	A substance which either contains viable micro-organisms that are known or reasonably believed to cause disease in animals or humans or genetically-modified micro-organisms and organisms which are infectious.	—	—	6.2		INFECTIOUS SUBSTANCE

Column 1 Classification	Column 2 Hazardous properties	Column 3 Relevant properties	Column 4 Packing Group	Column 5 Class number	Column 6 Danger sign	Column 7 Optional lettering
Corrosive substance	A substance which by chemical action will — (a) cause severe damage when in contact with living tissue; or (b) materially damage freight or equipment if leakage occurs.	A substance which— (a) causes full thickness destruction of skin tissue at the site of contact within an observation period of 60 minutes starting after testing on the intact skin of an animal for a period of 3 minutes or less;  (b) causes full thickness destruction of skin tissue at the site of contact within an observation period of 14	I	8		CORROSIVE


Column 1 Classification	Column 2 Hazardous properties	Column 3 Relevant properties	Column 4 Packing Group	Column 5 Class number	Column 6 Danger sign	Column 7 Optional lettering
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starting  
after  
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period  
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but  
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minutes;

(c) ~~caused~~  
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destruction  
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skin  
tissue  
at  
the  
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period  
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days  
starting  
after  
testing  
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the

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Column 1 Classification	Column 2 Hazardous properties	Column 3 Relevant properties	Column 4 Packing Group	Column 5 Class number	Column 6 Danger sign	Column 7 Optional lettering
		intact skin of an animal for a period of more than 60 minutes but not more than 4 hours; or				
		(d) <del>causes</del> corrosion in steel or aluminium surfaces at a rate exceeding 6.25 mm a year at a test temperature of 55°C.				

Column 1 Classification	Column 2 Hazardous properties	Column 3 Relevant properties	Column 4 Packing Group	Column 5 Class number	Column 6 Danger sign	Column 7 Optional lettering
Miscellaneous dangerous goods	A substance which— (a) is listed in the approved carriage list and which may create a risk to the health and safety of persons in the conditions encountered in carriage whether or not it has any of the hazardous properties of any other classification; (b) contains a genetically- modified micro- organism which is capable of altering animals, plants or microbiological	—	—	9		”






Column 1 Classification	Column 2 Hazardous properties	Column 3 Relevant properties other reason.	Column 4 Packing Group	Column 5 Class number	Column 6 Danger sign	Column 7 Optional lettering
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SCHEDULE 2



Regulation 2(b)

“Part I  
Ascertainment

Column 1 Subsidiary hazard	Column 2 Subsidiary hazard sign	Column 3 Optional lettering
Liable to explosion		—
Danger of fire (flammable gas)		FLAMMABLE GAS
Danger of fire (flammable liquid)		FLAMMABLE LIQUID

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Column 1 Subsidiary hazard	Column 2 Subsidiary hazard sign	Column 3 Optional lettering
Danger of fire (flammable solid)		FLAMMABLE SOLID
Liable to spontaneous ignition		SPONTANEOUSLY COMBUSTIBLE
Danger of emission of flammable gas on contact with water		DANGEROUS WHEN WET
Fire intensifying hazard		OXIDISING AGENT

Column 1 Subsidiary hazard	Column 2 Subsidiary hazard sign	Column 3 Optional lettering
Toxic		TOXIC
Corrosive		CORROSIVE

### EXPLANATORY NOTE

*(This note is not part of the Regulations.)*

These Regulations amend the Carriage of Dangerous Goods (Classification, Packaging and Labelling) and Use of Transportable Pressure Receptacles Regulations (Northern Ireland) 1997 (“the principal Regulations”) in order to correct defects in the principal Regulations.

Regulation 2(a) substitutes a new Part I in Schedule 1 to the principal Regulations. The new Part I includes—

- (a) danger signs; and
- (b) in the entry for “Flammable Solid”, in column 2 (hazardous properties) another category (desensitised explosive where the explosive properties have been suppressed),

which were omitted from the principal Regulations.

Regulation 2(b) substitutes a new Part I in Schedule 2 to the principal Regulations. The new Part I includes subsidiary hazard signs which were omitted from the principal Regulations.