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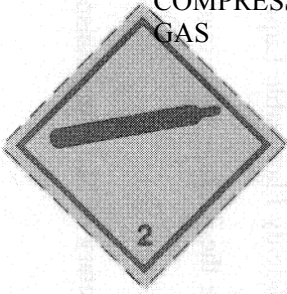
SCHEDULE 1

Regulation 5


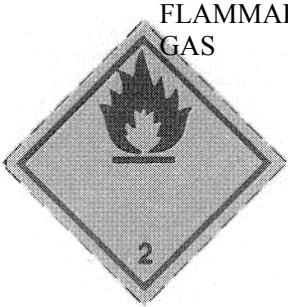
CLASSIFICATION AND ASCERTAINMENT OF OTHER PARTICULARS OF DANGEROUS GOODS

PART I

TABLE OF CLASSIFICATIONS AND OTHER PARTICULARS

| (1) <i>Classification</i> | (2) <i>Hazardous properties</i> | (3) <i>Relevant properties</i> | (4) <i>Packing Group</i> | (5) <i>Class number</i> | (6) <i>Danger sign</i> | (7) <i>Optional lettering</i> |
|------------------------------|--|-----------------------------------|-----------------------------|----------------------------|--|----------------------------------|
| Non-flammable, non-toxic 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 (b) is carried at an absolute pressure of not less than 280 kilopascals or in liquefied form, other than a toxic gas or | — | — | 2.2 |  | COMPRESSED GAS |

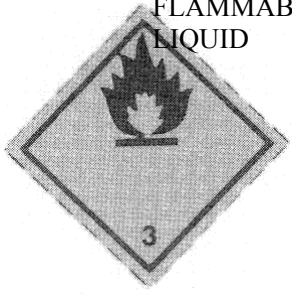
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|------------------------------|---|-----------------------------------|-----------------------------|----------------------------|---|----------------------------------|
| | a flammable gas. | | | | | |
| Toxic gas | A substance which at 50°C has 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 |  | |
| 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 | — | — | 2.1 |  | |

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| <i>Classification</i> | <i>Hazardous properties</i> | <i>Relevant properties</i> | <i>Packing Group</i> | <i>Class number</i> | <i>Danger sign</i> | <i>Optional lettering</i> |
| | <p>in an aerosol dispenser where that dispenser contains either—</p> <p>(i) more than 45 per cent by mass of a flammable substance,</p> <p>or</p> <p>(ii) more than 250 grammes of a flammable substance,</p> <p>and in this sub-paragraph flammable substances means a flammable gas or flammable liquid having a flash point less than or equal to 100°C.</p> | | | | | |

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|------------------------------|--|---|-----------------------------|----------------------------|---|----------------------------------|
| Flammable liquid | <p>A liquid with a flash point—</p> <p>(a) above 61°C and which is carried at a temperature above its flashpoint;</p> <p>or</p> <p>(b) of 61°C or below except—</p> <p>(i) a liquid which has a flashpoint equal to or more than 35°C, and when tested in accordance with the appropriate approved method does not support combustion,</p> <p>(ii) a viscous substance</p> | <p>(a) (in 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 and</p> | | 3 |  | FLAMMABLE LIQUID |

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|------------------------------|------------------------------------|---|---|----------------------------|---------------------------|----------------------------------|
| | | which complies with the provisions of Part III of this Schedule and is contained in a receptacle with a capacity of less than 450 litres, or | a subsidiary hazard of toxic or corrosive)– | | | |
| | (iii) | a substance which is classified as a flammable gas because it has the hazardous properties specified in sub-paragraph (b) of this column corresponding to | (i) less than 3% of it separates out into a clear solvent layer following a suitable solvent separation test, (ii) the flash point of it is specified in column 1 of the table set out in Part IV of this Schedule, (iii) the kinematic viscosity | | | |

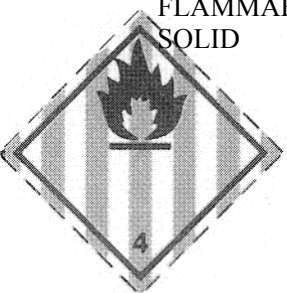
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|------------------------------|------------------------------------|--|---|----------------------------|---------------------------|----------------------------------|
| | | the entry for a “flammable gas” in column 1 of this Part. | of it is within the range specified in column 2 of the table set out in Part IV of this Schedule which is opposite to the flash point of that liquid referred to in head (ii) of this sub- paragraph, and | | | |
| | | | (iv) is contained in a receptacle with a capacity | | | |

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|-----------------------|-------------------|---|--|---------------|---------------|------------------|
| <i>Classification</i> | <i>Hazardous</i> | <i>Relevant</i> | <i>Packing</i> | <i>Class</i> | <i>Danger</i> | <i>Optional</i> |
| <i>properties</i> | <i>properties</i> | <i>properties</i> | <i>Group</i> | <i>number</i> | <i>sign</i> | <i>lettering</i> |
| | | | of less than 450 litres; or | | | |
| | | (b) (in(b) the case of any other liquid) it has— | | | | |
| | | (i) an I 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 | | | | |

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|------------------------------|---|-----------------------------------|-----------------------------|----------------------------|---|----------------------------------|
| Flammable solid | (a) a substance which, under conditions encountered in transport, is readily combustible or may cause or contribute to fire through friction; (b) a self-reactive or related substance which is liable to undergo a strongly exothermic reaction; (c) a desensitised explosive where the explosive properties have been suppressed. | or above. | | 4.1 |  | FLAMMABLE SOLID |

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|------------------------------|--|---|---------------------------------|--------------------------------|-------------------------------|--------------------------------------|
| | | (water- (d) wetted and (when in a dry state) required to be classified (as defined by 2 Regulation of the Classification and Labelling of Explosives Regulations 1983) in pursuance of 3 Regulation (a) of those Regulations; | | | | |
| | | (b) (i) a self- reactive substance, or (ii) a readily combustible solid which, when ignited, burns very vigorously or | | | | |

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|------------------------------|------------------------------------|-----------------------------------|-----------------------------|----------------------------|---------------------------|----------------------------------|
|------------------------------|------------------------------------|-----------------------------------|-----------------------------|----------------------------|---------------------------|----------------------------------|

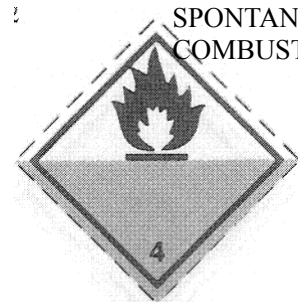
intensely
and
is
difficult
to
extinguish;
or

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

SpontaneouslyA substance
combustible which is
substance 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—

4.2



- (a) a(d)
pyrophoric
substance
which
ignites
instantly
on
contact
with
air;

- (b)able(b)
to
ignite
on
contact

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|------------------------------|------------------------------------|-----------------------------------|-----------------------------|----------------------------|---------------------------|----------------------------------|
|------------------------------|------------------------------------|-----------------------------------|-----------------------------|----------------------------|---------------------------|----------------------------------|

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.

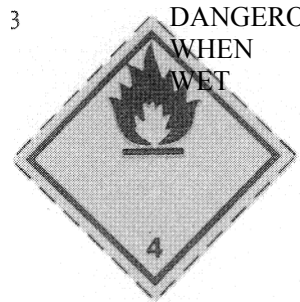
Substance which in contact with water emits flammable gas

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

A substance which—

4.3

3



DANGEROUS
WHEN
WET

(d) other (d) reacts vigorously with water at ambient temperatures and demonstrates

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| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
|-----------------------|-------------------|--|--|---------------|---------------|------------------|
| <i>Classification</i> | <i>Hazardous</i> | <i>Relevant</i> | <i>Packing</i> | <i>Class</i> | <i>Danger</i> | <i>Optional</i> |
| <i>properties</i> | <i>properties</i> | <i>properties</i> | <i>Group</i> | <i>number</i> | <i>sign</i> | <i>lettering</i> |
| | | | generally a tendency for the gas produced to ignite spontaneously or reacts readily with water at ambient temperatures so that the rate of evolution of flammable gas is equal to or greater than 10 litres per kilogram of substance over any period of one minute; | | | |
| | | reacts (H) readily with water | | | | |

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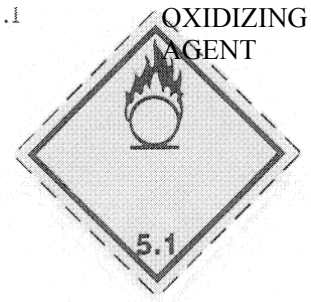
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|------------------------------|------------------------------------|-----------------------------------|-----------------------------|----------------------------|---------------------------|----------------------------------|
|------------------------------|------------------------------------|-----------------------------------|-----------------------------|----------------------------|---------------------------|----------------------------------|

at
 ambient
 temperatures
 so
 that
 the
 maximum
 rate
 of
 evolution
 of
 flammable
 gas
 is
 equal
 to
 or
 greater
 than
 20
 litres
 per
 kilogram
 of
 substance
 per
 hour;
 or

(c) acts (d) II
 slowly
 with
 water
 at
 ambient
 temperatures
 so
 that
 the
 maximum
 rate
 of
 evolution
 of
 flammable
 gas
 is
 greater
 than
 1

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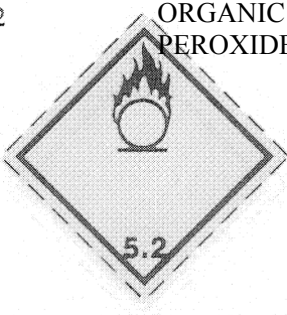
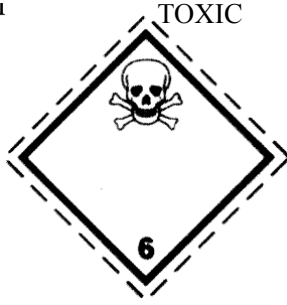
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|------------------------------|---|---|---|----------------------------|---------------------------|----------------------------------|
| | | | litre per kilogram of substance per hour. | | | |
| Oxidizing substance | A substance other than an organic peroxide which, although not necessarily combustible, may by yielding oxygen or by a similar process cause or contribute to the combustion or 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— | | 5.1 | .1 | OXIDIZING AGENT |
| | | (a) 3:2(d) mixture by mass of potassium bromate and cellulose; | | | | |
| | | (b) 2:3(H) mixture by mass of potassium bromate and cellulose; or | | | | |
| | | (c) 3:7(d)II mixture by | | | | |




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|-----------------------|-------------------|---|---|---------------|---------------|------------------|
| <i>Classification</i> | <i>Hazardous</i> | <i>Relevant</i> | <i>Packing</i> | <i>Class</i> | <i>Danger</i> | <i>Optional</i> |
| | <i>properties</i> | <i>properties</i> | <i>Group</i> | <i>number</i> | <i>sign</i> | <i>lettering</i> |
| | | | 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— | | | | |
| | | | (a) 50% (d) perchloric acid and cellulose; | | | |
| | | | (b) 40% (h) aqueous sodium chlorate solution and cellulose; or | | | |
| | | | (c) 65% (d) aqueous nitric acid and cellulose. | | | |

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|------------------------------|---|---|-----------------------------|----------------------------|--|----------------------------------|
| 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— <p>(a) packing (d) group I in accordance with the criteria set out in Part V of this Schedule;</p> <p>(b) packing (II) group II</p> | | 6.1 |  | TOXIC |

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|-----------------------|--|----------------------------|----------------------|---------------------|--------------------|---|
| <i>Classification</i> | <i>Hazardous properties</i> | <i>Relevant properties</i> | <i>Packing Group</i> | <i>Class number</i> | <i>Danger sign</i> | <i>Optional lettering</i> |
| 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 | — | — | 6.2 | 2 | INFECTIOUS SUBSTANCE  |

in accordance with the criteria set out in Part V of this Schedule; or
 packing (DI) group III in accordance with the criteria set out in Part V of this Schedule.

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|------------------------------|------------------------------------|-----------------------------------|-----------------------------|----------------------------|---------------------------|----------------------------------|
|------------------------------|------------------------------------|-----------------------------------|-----------------------------|----------------------------|---------------------------|----------------------------------|

organisms which are infectious.

Corrosive substance

A substance which by chemical action will—

A substance which—

8



- (a) cause (a) severe damage when in contact with living tissue; or
- (b) materially damage freight or equipment if leakage occurs.
- (c) causes (c) full thickness destruction of skin tissue at the site of contact with freight or an observation period of 60 minutes starting after testing on the intact skin of an animal for a period of 3 minutes

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or
less;

(c) uses (b)

full
thickness
destruction
of
skin
tissue
at
the
site
of
contact
with
an
observation
period
of
14
days
starting
after
testing
on
the
intact
skin
of
an
animal
or
a
period
of
more
than
3
minutes
but
not
more
than
60
minutes;

(c) uses (d)

full
thickness
destruction

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|------------------------------|------------------------------------|-----------------------------------|--|----------------------------|---------------------------|----------------------------------|
| | | | of skin tissue at the site of contact with an observation period of 14 days starting after testing on the intact skin of an animal for a period of more than 60 minutes but not more than 4 hours; or | | | |
| | | | causes corrosion in steel or aluminium surfaces at a | | | |

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|------------------------------|------------------------------------|-----------------------------------|-----------------------------|----------------------------|---------------------------|----------------------------------|
|------------------------------|------------------------------------|-----------------------------------|-----------------------------|----------------------------|---------------------------|----------------------------------|

rate exceeding 6.25 mm a year at a test temperature of 55°C.

Miscellaneous dangerous goods —
A substance which — 9
(a) is listed in the approved carriage list and which may create a risk to the health or 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



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|-----------------------|-----------------------------|--|----------------------|---------------------|--------------------|---------------------------|
| <i>Classification</i> | <i>Hazardous properties</i> | <i>Relevant properties</i> | <i>Packing Group</i> | <i>Class number</i> | <i>Danger sign</i> | <i>Optional lettering</i> |
| | | of any other classification, or (iii) constitutes dangerous goods for any other reason. | | | | |

PART II

SPECIFICATION OF DANGER SIGNS

1. The danger signs to be used shall be those shown in column 6 of Part I of this Schedule for the classification of the goods shown in the corresponding entry in column I of that Part and the signs shall conform in form and colour to those shown in the said column 6, except that in the case of the signs for the classifications “non-flammable non-toxic gas”, “flammable gas”, “flammable liquid” and “substance which in contact with water emits flammable gas”, the symbol may be in white.

2. The words in column 7 of Part I of this Schedule may be included in the lower half of the relevant sign shown in the corresponding entry in column 6 of that Part and where included shall conform in form and colour to those shown in the said column 7, except that—

- (a) in the case of the signs for the classifications “non-flammable non-toxic gas”, “flammable gas”, “flammable liquid”, “spontaneously combustible substance” and “substance which in contact with water emits flammable gas”, any lettering may be in white;
- (b) in the case of the sign for the classification “corrosive substance” the lettering shall be in white;
- (c) in place of the word “toxic”, the word “poison” may be used wherever it occurs; and
- (d) in place of the word “flammable”, the word “inflammable” may be used wherever it occurs.

3. Each danger sign shall be in the form of a square set with its sides at an angle of 45° to the vertical.

4. Danger signs shall have a line of the same colour as the symbol, 5 millimetres inside the edge and running parallel to it. (The broken line which surrounds each sign as depicted in column 6 of Part I of this Schedule delineates the edge of that sign and need not be shown.)

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PART III

VISCOUS SUBSTANCES NOT REQUIRED TO BE CLASSIFIED AS FLAMMABLE LIQUIDS

For the purposes of Part I of this Schedule, a substance shall not be classified as a flammable liquid, if it complies with the following conditions, namely—

- (a) the substance does not have the hazardous properties of a toxic or corrosive substance;
- (b) the substance is a solution or homogeneous mixture which does not contain more than 20% nitro-cellulose containing not more than 12.6% nitrogen by mass;
- (c) the flash point of the substance is equal to or greater than 23°C;
- (d) in a suitable solvent separation test, the solvent which separates is not more than 3% of the volume of the substance; and
- (e) the viscosity of the substance when determined at 23°C in a flow cup conforming to the International Standards Organisation Standard ISO 2431-1984 or British Standard BS EN 535-1991 and having a jet diameter of 6 mm is—
 - (i) in a case where the substance contains not more than 60 per cent. of a flammable liquid with a flash point of 61°C or less, not less than 40 seconds,
 - (ii) in any other case, not less than 60 seconds.

PART IV

TABLES OF FLASH POINTS AND KINEMATIC VISCOSITY RANGES OF GOODS WHICH HAVE BEEN CLASSIFIED AS FLAMMABLE LIQUIDS IN ACCORDANCE WITH REGULATION 5 OF THESE REGULATIONS, WHICH HAVE A FLASH POINT OF LESS THAN 23°C AND CONTAIN 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 AND A SUBSIDIARY HAZARD OF TOXIC OR CORROSIVE

| (1) <i>Flash point</i> | (2) <i>Kinematic viscosity γ (extrapolated at near-zero shear rate) (mm^2/s at 23°C)</i> |
|---------------------------|--|
| Above 17°C | $20 < \gamma \leq 80$ |
| Above 10°C | $80 < \gamma \leq 135$ |
| Above 5°C | $135 < \gamma \leq 220$ |
| Above -1°C | $220 < \gamma \leq 300$ |
| Above -5°C | $300 < \gamma \leq 700$ |
| -5°C and below | $700 < \gamma$ |

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PART V

CRITERIA FOR ASCERTAINING PACKING GROUPS OF GOODS WHICH HAVE BEEN CLASSIFIED AS TOXIC SUBSTANCES IN ACCORDANCE WITH REGULATION 5 OF THESE REGULATIONS

Toxic substances shall be allocated into packing group I, II or III in accordance with the criteria given in the table below:

| (1) <i>Packing group</i> | (2) <i>Oral toxicity LD₅₀ (mg/kg)</i> | (3) <i>Dermal toxicity of LD₅₀ (mg/kg)</i> | (4) <i>Inhalation toxicity of dust or mists LC₅₀ (mg/m³)</i> | (5) <i>Inhalation toxicity of vapours where V is the saturated vapour concentration produced by the substance at 20°C expressed by reference to LC₅₀ (ppm)</i> |
|-----------------------------|---|--|---|--|
| to | | | | |
| I | ≤5 | ≤40 | ≤500 | V≤10 × LC ₅₀ and LC ₅₀ ≤1000 |
| II | >5 to ≤50 | >40 to ≤200 | >500 to ≤2000 | V≥LC ₅₀ and LC ₅₀ ≤3000 but not placed in packing group I |
| III | solids: >50 to ≤200 liquids: >50 to ≤500 | >200 to ≤1000 | >2000 to ≤10000 | V≥0.2 × LC ₅₀ and LC ₅₀ ≤5000 but not placed in either packing group I or II |

The above criteria are based on LC₅₀ data relating to one hour exposure and where such information is available it should be used. However, where only LC₅₀ data relating to 4 hour exposures is available, then:

LC₅₀ (4 hr) × 4 shall be considered equivalent to LC₅₀ (1 hr) for dusts or mists, and LC₅₀ (4 hr) × 2 shall be considered equivalent to LC₅₀ (1 hr) for vapours.