



## Annex 1: Definition of Dangerous / Hazardous goods.





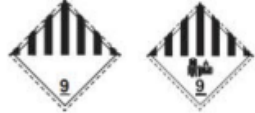
### Classes of Dangerous Goods

Dangerous goods substances and articles are described in in the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)1.

ADR are the regulations that govern the transport of dangerous goods by road internationally and are applied in Great Britain through the Carriage of Dangerous Goods and Use of Transportable Pressure Equipment 2009.

The classes of dangerous goods according to ADR are the following:

Class 1	Explosive substances and articles	
Class 2	Gases	
Class 3	Flammable liquids	
Class 4.1	Flammable solids, self-reactive substances, polymerizing substances and solid desensitized explosives	
Class 4.2	Substances liable to spontaneous combustion	
Class 4.3	Substances which, in contact with water, emit flammable gases	

Class 5.1 Oxidizing substances Class 5.2 Organic peroxides	
Class 6.1 Toxic substances Class 6.2 Infectious substances	
Class 7 Radioactive material	
Class 8 Corrosive substances	
Class 9 Miscellaneous dangerous substances and articles	

In addition to the above list, HGVs carrying any loads that are hazardous to the environment, such as consignments carrying milk or milk products, etc. shall also be covered under this category.

### Excluded' Dangerous Goods

Not all vehicles carrying dangerous goods are permitted to park on-site. The following classes of dangerous goods are 'excluded' from parking on-site as per the requirements of the Special Development Order (SDO) for the site:

- Category I/II nuclear material
- High Consequence Dangerous Goods (HCDG)

Additionally, following discussions with the Department for Transport (DfT), Class 6.1 (toxic substances) are excluded.

### Substances not Permitted on Site

Class 1 Substances and Articles (Explosives)

Class 1 dangerous goods are explosive substances and articles. There are 6 sub-divisions:

- Division 1.1: Substances and articles which have a mass explosion hazard
- Division 1.2: Substances and articles which have a projection hazard but not a mass explosion hazard
- Division 1.3: Substances and articles which have a fire hazard and either a minor blast hazard or a minor projection hazard or both
- Division 1.4: Substances and articles which present no significant hazard; only a small hazard in the event of ignition or initiation during transport with any effects largely confined to the package
- Division 1.5: Very insensitive substances which have a mass explosion hazard

- Division 1.6: Extremely insensitive articles which do not have a mass explosion hazard Commonly transported Class 1 Dangerous Goods include ammunitions, fireworks, air bag inflators and fuse, etc.

## **Category I/II Nuclear Material**

### **General Principles**

The Nuclear Industries Security Regulations (NISR) 2003 require those who operate within the civil nuclear industry to protect Sensitive Nuclear Information (SNI) in an appropriate manner.

SNI is defined in the Anti-terrorism, Crime and Security Act (ATCSA) 2001 (as amended), as including:

- Information relating to activities carried out on or in relation to nuclear sites or other nuclear premises which appears to the Secretary of State to be information which needs to be protected in the interests of national security

### **High Consequence Dangerous Goods (HCDG)**

#### **Definition**

High Consequence Dangerous Goods (HCDG) are those which have the potential for misuse in a terrorist event and which may, as a result produce serious consequences such as mass casualties, mass destruction or, particularly for Class 7, mass socio-economic disruption. They are therefore being excluded from site for security rather than safety reasons.

#### **Relevant Substances and Quantities**

The substance or articles classified as HCDG, their quantity and whether they are transported in tanks, bulk or packages must be taken into account. The table in ADR shows the criteria for HCDG. ADR Table 1.10.3.1.2: List of high consequence dangerous goods

**Table 1.10.3.1.2: List of high consequence dangerous goods**

Class	Division	Substance or article	Quantity		
			Tank (l) <sup>c</sup>	Bulk (kg) <sup>d</sup>	Packages (kg)
1	1.1	Explosives	a	a	0
	1.2	Explosives	a	a	0
	1.3	Compatibility group C explosives	a	a	0
	1.4	Explosives of UN Nos. 0104, 0237, 0255, 0267, 0289, 0361, 0365, 0366, 0440, 0441, 0455, 0456 and 0500	a	a	0
	1.5	Explosives	0	a	0
2		Flammable gases (classification codes including only the letter F)	3000	a	b
		Toxic gases (classification codes including letters T, TF, TC, TO, TFC or TOC) excluding aerosols	0	a	0
3		Flammable liquids of packing groups I and II	3000	a	b
		Desensitized explosives	0	a	0
4.1		Desensitized explosives	a	a	0
4.2		Packing group I substances	3000	a	b
4.3		Packing group I substances	3000	a	b
5.1		Oxidizing liquids of packing group I	3000	a	b
		Perchlorates, ammonium nitrate, ammonium nitrate fertilisers and ammonium nitrate emulsions or suspensions or gels	3000	3000	b
6.1		Toxic substances of packing group I	0	a	0
6.2		Infectious substances of Category A (UN Nos. 2814 and 2900, except for animal material)	a	0	0
8		Corrosive substances of packing group I	3000	a	b

<sup>a</sup> Not relevant.

<sup>b</sup> The provisions of 1.10.3 do not apply, whatever the quantity is.

<sup>c</sup> A value indicated in this column is applicable only if carriage in tanks is authorized, in accordance with Chapter 3.2, Table A, column (10) or (12). For substances that are not authorized for carriage in tanks, the instruction in this column is not relevant.

<sup>d</sup> A value indicated in this column is applicable only if carriage in bulk is authorized, in accordance with Chapter 3.2, Table A, column (10) or (17). For substances that are not authorized for carriage in bulk, the instruction in this column is not relevant.