

PART 12

Safety Equipment for Road Vehicles

12.1.1 APPLICATION

Every road vehicle transporting a placard load of dangerous goods must be equipped with:

- (a) fire extinguishers in accordance with 12.1.2; and
- (b) three double sided reflector signals that comply with AS 3790 and are clean and in good condition; and
- (c) personal protective equipment and safety equipment in accordance with 12.1.3.

12.1.2 FIRE EXTINGUISHERS

12.1.2.1 A road vehicle transporting a placard load of dangerous goods must be equipped with a fire extinguisher or fire extinguishers in accordance with Table 12.1.

12.1.2.2 On a combination vehicle, each separate unit on which a placard load of dangerous goods is transported must be equipped with fire extinguishers in accordance with Table 12.1.

12.1.2.3 A fire extinguisher required by this Section must comply with:

- (a) AS/NZS 1841.1 and AS/NZS 1850; and
- (b) AS/NZS 1841.4, 5, 6 or 7 as appropriate for the vehicle and load being carried.

12.1.2.4 Each fire extinguisher required by this Section must be mounted securely by means of a quick-release attachment.

12.1.2.5 Extinguisher Location

12.1.2.5.1 Each fire extinguisher required by this Section must be located so as to be readily accessible for use.

12.1.2.5.2 On road tank vehicles, fire extinguishers must be located and stowed in accordance with AS 2809.1.

12.1.2.5.3 Where two or more fire extinguishers are required for the load area of any vehicle, one should be located on the left (near) side towards the rear of the vehicle and, wherever practicable, another should be mounted on the right (off) side towards the front of the vehicle.

12.1.2.5.4 Where only one fire extinguisher is required for any vehicle, wherever practicable it should be located:

- (a) on the discharge side of a road tank vehicle; or
- (b) near the driver's door for all other vehicles.

Table 12.1 Fire Extinguishers on Road Vehicles Transporting a Placard Load of Dangerous Goods

Vehicle, Load	Minimum Extinguishers Required		
	Number x Rating	Type	Location
1. All vehicles where the only dangerous goods are: (a) articles or in packages (including those contained in large packagings, overpacks or segregation devices); or (b) in IBCs, except where 3(c) below applies.	One x 30B	Dry powder	Near Driver's door –see 12.1.2.5
2. Vehicles transporting dangerous goods in placardable units (other than IBCs), tanks or bulk containers, except where 3. below applies	<i>Either:</i> One x 60B	Dry powder	Load area –see 12.1.2.5
	<i>or:</i> Two x 30B	Dry powder	
	<i>Plus:</i> One x 10B	Dry powder	Cabin
3. Vehicles transporting flammable goods ^a in: (a) tanks; (b) bulk containers; and/or (c) placardable units with a total capacity greater than 10,000 kg(L)	<i>Either:</i> Two x 60B	Dry powder	Load area –see 12.1.2.5
	<i>or:</i> One x 80B + One x 20B	Dry powder Foam	
	<i>Plus:</i> One x 10B	Dry powder	Cabin

^a In this table, “flammable goods” means dangerous goods of Division 2.1, Class 3 or Class 4, or having a Subsidiary Risk of 2.1, 3, or 4.

12.1.3 PERSONAL PROTECTIVE EQUIPMENT AND SAFETY EQUIPMENT

12.1.3.1 Table 12.2 specifies the minimum personal protective and safety equipment that must be provided, based on the classification of the dangerous goods being transported.

12.1.3.2 A road vehicle transporting a placard load of dangerous goods must carry the personal protective equipment and safety equipment specified in Table 12.2 for all the dangerous goods in the load, based on their primary hazards and any subsidiary risks, subject to any conditions incorporated in the table and its explanatory notes.

12.1.3.3 All personal protective equipment and safety equipment provided in accordance with this section must be:

- (a) clean; and
- (b) suitable for purpose; and
- (c) in sound operating condition, ready for use.

12.1.3.4 Personal protective equipment provided in accordance with this section must be in sufficient quantities for and suitable for use by:

- (a) the driver of the vehicle; and
- (b) where required for escape purposes, any other persons travelling in the vehicle.

12.1.3.5 Respiratory protection equipment required to be carried for escape purposes must be carried securely and in an accessible position in the cabin of the vehicle.

12.1.3.6 Other personal protective equipment and safety equipment provided for occupants of a road vehicle transporting dangerous goods must be carried securely and in a readily accessible position in the vehicle.

Table 12.2 Minimum Personal Protective and Safety Equipment on Road Vehicles transporting a Placard Load

Minimum Equipment Required	Class, Division or Subsidiary Risk of Dangerous Goods in Load											
	2.1 [a]	2.2	2.3	3	4	5.1 (solids)	5.1 (liquids)	5.2	6.1	6.2	8	9
Respiratory protection equipment for escape purposes	No	No	[b]	No	No	No	No	No	[b]	No	[b]	No
Gas tight goggles or full face shield as appropriate	[c]	[c]	Yes	No	No	No	Yes	Yes	Yes	No	Yes	No
Eye-wash kit [d]	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
Chemically resistant gloves or gauntlets	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Thermally insulated gloves or gauntlets	Yes	Yes	Yes	No	No	No	No	No	No	No	No	[e]
Chemically resistant suit or coveralls	No	No	No	No	No	No	Yes	Yes	Yes	No	Yes	No
Chemically resistant boots	No	No	No	No	No	No	Yes	Yes	Yes	No	Yes	No
Any electric torch	No	Yes	Yes	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes
Electric torch complying with AS/NZS 60079.11 or other recognised Code	Yes	No	No	Yes	Yes	No	No	Yes	No	No	No	No

[a] A vehicle transporting unodourized LP Gas must additionally be equipped with a gas detector suitable for detection of LP Gas, in accordance with AS 1596.

[b] The minimum requirement is air supplied short term breathing apparatus suitable for escape purposes, except when, even in an emergency, the dangerous goods will not give rise to harmful vapours, gases or dust. Note that where a driver attends to the loading or transfer of goods, SCBA with a duration of greater than 15 minutes may be required by other (e.g. health and safety) legislation.

[c] **Yes** –if the goods are in receptacles with a capacity > 500 L or the goods are cryogenic liquids.
No –otherwise. "Gas tight goggles" means face hugging goggles with increased facial seal.

[d] Where an eyewash kit is required, it must be of at least 250 mL capacity, filled and ready for use.

[e] **Yes** –if the goods are elevated temperature substances or dry ice.
No –otherwise.

NOTE 1: Where an item of Personal Protective or Safety Equipment is required based on the primary hazard or subsidiary risk of any item of dangerous goods in the load, that item must be carried, except that where thermally insulated gloves or gauntlets are required and carried, any requirement for chemically resistant gloves or gauntlets may be ignored

NOTE 2: Under other legislation, it may be necessary to carry additional Personal Protective Equipment where it is specified for the purpose on the Safety Data Sheet.

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