



## ADR dangerous goods

Transportation of dangerous goods is a speciality within the work carried out by Van den Bosch and involves a great deal of responsibility. Obtaining the ADR certificate is preceded by extensive training that covers substance properties, firefighting and laws and regulations. Because there are parts of ADR transport that are not always entirely clear, this part of the manual highlights a couple of things.



Mandatory ADR route



Starting point of dangerous goods route. This sign is often found at motorway exits to indicate that an ADR route starts at the end of the exit

The written instructions/hazard card is kept within easy reach in the cabin. The instructions must be readily available. The hazard chart is written in a language you understand. The written instruction is made available by the carrier before the start of a trip. The instruction must comply with a standard prescribed template of 4 pages.

it is legally required to avoid urban areas of municipalities with dangerous goods. Loading and unloading of ADR products from public roads is prohibited. In consultation with the loading/unloading address, a site is chosen on the company premises. Two exceptions apply to transport within urban areas:

- when there is no other route available within the urban area.
- when you must unload within the urban area.

In these cases, it is permitted to use the main road of the urban area. Choose the quickest route to the loading/unloading address and take the quickest route back. The local government can waive the obligation to follow the route.

**Since 01-01-2008 it is mandatory to have the following fire extinguishers in the truck:**

- One portable extinguisher containing at least 2kg of powder to extinguish a cabin or engine fire.
- One or more fire extinguishers totalling 12 kg of powder where at least one of the extinguishers contains a minimum of 6kg.

**Additionally, the following obligations are specific to ADR transport:**

- ADR class 3 is never unloaded with a compressor/compressed air. Unloading will therefore have to take place with a pump or by free fall.
- When unloading ADR products from a large volume to a smaller volume, the driver is not authorised to perform this.
- Loading and unloading activities always take place while using wheel chocks.
- Sampling of the transported product is not permitted. It is virtually impossible to know all specific properties of the product. Furthermore, it is uncertain whether all personal protective equipment is available.
- Spill kit is present and in working order in case spillage occurs. Pay attention to your own safety and wear the necessary PPE.



UN-number of the cargo (bottom digits). Hazard identification number (HIN) of the substance (top digits)

Classification:

- 1 – explosive
- 2 – gasses
- 3 – flammable liquids
- 4 – flammable solids
- 5 – oxidising substance (corrosive)
- 6 – toxic substance
- 7 – radioactive substance
- 8 – corrosive substance
- 9 – miscellaneous substance

On the left, the orange sign (kemler panel) with HIN and UN number. On the right, the label of the class being transported with visual indication of the substance properties. After loading, check the accuracy of the hazard labels and characteristics (orange signs). After cleaning, these are removed.

As of 01-01-2010, there have been some changes in European tunnel classifications. Cat I and II tunnels have been changed to C and D tunnels. Within the Netherlands, a couple of (new) tunnels have been classified or converted to another category. Most fall within the usual C and D categories. A and E tunnels have been added in the Netherlands.

Category A tunnels have no restrictions on the transport of dangerous goods. The following tunnels are classified as category A:

- The Leidsche Rijntunnel on the A2
- The Willem Alexandertunnel on the A2
- Schiphol-tunnel on the A4
- Roer-tunnel on the A73
- Swalmen-tunnel on the A73

A table below lists all substances prohibited in a category C tunnel and for which transportation has mandatory routes.

Class	Tank transportation
2	Classification codes 2A, 2O, 3A and 3O, and those containing only the letter T or letter groups TC, To and TOC.
3	Packaging group 1 for classification codes FC, FT1, FT2 and FTC.
6.1	All substances in packaging group I.
8	Packaging group 1 for classification codes CT1, CFT and COT.

Empty, uncleaned tanks, containers and vehicles that have contained substances listed above,

## Tunnels in Category C

Tunnel	Plaats- en wegaanduiding	Onder
Beneluxtunnel	A4: Vlaardingen - Hoogvliet	Nieuwe Waterweg
Coentunnel	A10: Amsterdam	Noordzeekanaal
Drechtunnel	A16: Zwijndrecht - Dordrecht	Oude Maas
Ketheltunnel	A\$: Rotterdam – Den Haag	Schiedam
Kiltunnel	S43: Dordrecht - 's Gravendeel	Dordtse Kil
Noordtunnel	A15: H.I. Ambacht - Alblisserdam	Noord
Sluiskiltunnel	N62: Zelzater - Terneuzen	Kanaal Gent - Terneuzen
Salland-Twentetunnel	N35: Zwolle - Almelo	Nijverdal
Sytwendetunnel	A4-N44: Den Haag	Rijn-Schiekanaal
Thomassentunnel	N15: Europoort-Botlek	Calandkanaal
Vlaketunnel	A58: Kruiningen-Kapelle	Kanaal door Zuid-Beveland
Westerschelde-tunnel	N62: Terneuzen-Goes	Westerschelde
Wijkertunnel	A9: Beverwijk - Velsen	Noordzeekanaal
Zeeburgertunnel	A10: Amsterdam	IJ

## Prohibited substances in Category D tunnels

Klasse	Vervoer in tanks
3	Alle stoffen
4.2	Verpakkingsgroep II
4.3	Verpakkingsgroep II
5.2	Alle stoffen
6.1	Verpakkingsgroep II en verpakkingsgroep III voor classificatiecode TF2UN 1092, 1098, 1143, 1163, 1182, 1185, 1238, 1239, 1244, 1251, 1259, 1613, 1695, 1994, 2334, 2382, 2438, 2482, 2484, 2485, 2606, 2929 (I), 3279 (I), 3294 en 3381 tot en met 3390
8	Verpakkingsgroep I voor classificatiecode CF2, CFT en CWI; en Verpakkingsgroep II voor classificatiecode CF1 en CFT
9	Classificatiecode M2 en M3
Lege, ongereinigde tanks, voertuigen of containers van de hierboven genoemde stoffen	



## Category D tunnels

Tunnel	Plaats- en wegaanduiding	Onder
Botlektunnel	A15: Hoogvliet - Rozenburg	Oude Maas
Heineoord-tunnel	A29: Barendrecht - Oud Beijerland	Oude Maas
Hubertustunnel	N14: Den Haag	Den Haag
IJtunnel	Stedelijke Weg te Amsterdam	IJ
Koningstunnel	Stedelijke weg te Den Haag	Stadsgebied Den Haag
Maastunnel	Stedelijke weg te Rotterdam	Nieuwe Maas
Maasboulevardtunnel	Stedelijke Weg te Maastricht	Stadsgebied Maastricht
Piet Heintunnel	Stedelijke weg te Amsterdam	Amsterdam/Rijn-kanaal
Velsertunnel	A22: Velsen	Noordzeekanaal
Michiel de Ruijtertunnel	S100: Amsterdam	Amsterdam

## Prohibited substances in Category D tunnels

Category E tunnels are restricted for all dangerous goods except UN numbers 2919, 3291, 3331, 3359 and 3373.

## Category E tunnels

Tunnel	Plaats- en wegaanduiding	Onder
Arenatunnel	Amsterdam	Onder de Amsterdam Arena
Stadsbaantunnel	Naast de A2	Onder Utrecht

Table A in the ADR shows which code is assigned to the product. If there are combination codes of 2 tunnel codes listed with a product, the first letter is for tanker truck transport and the 2nd letter for other than tanker trucks.

## Documents

Where assigned, the code listed in column 15 of Chapter 3.2, Table A, must appear on the transport document in CAPITAL LETTERS and in parentheses. This indication is not necessary if it is established in advance that transport through a tunnel will not take place. Example:

“ UN 1098 ALLYLALCOHOL, 6.1 (3), I (C/D)”

“ UN 1098 ALLYLALCOHOL, 6.1 (3), PG I (C/D)”

## References:

<https://www.ilent.nl/onderwerpen/gevaarlijke-stoffen-weg/regels-tijdens-vervoer-gevaarlijke-stoffen-over-de-weg/tunnels>