HAZCOM DGR (PTY) LTD
15A Terrace Road, cnr Fountain Road
EASTVELLE, 1809

084 810 6984 - 073 467 8287
Brendan Adams Peter Breda
brendan@hazcomdgr.co.za www.hazcomdgr.co.za

DANGEROUS GOODS BY ROAD: ARE YOUR VEHICLES LEGAL?

Hazcom-DGR (Pty) Ltd offers the following services to our valued existing- and prospective clients who are actively engaged in the handling, storage and transportation of Dangerous Goods by road:

DANGEROUS GOODS VEHICLE COMPLIANCE

Expert service by experienced Sales Consultants, Dangerous Goods Advisors and Outcomes-Based Training Assessors to assist you in complying with the legal requirements applicable to the storage, handling and transportation of dangerous goods by road.

VEHICLE SIGNAGE & EQUIPMENT:


SANS 1518: Transport of dangerous goods — Design, construction, testing, approval and maintenance of road vehicles and portable tanks

WARNING:
Can only be read in conjunction with the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

This document supersedes SANS 1518:2008 (edition 3).

BATTERY ISOLATOR ACTIVATION DEVICE / BATTERY MASTER SWITCH

As prescribed within the SANS Codes (SANS 1518) and most Municipal Emergency Services By-Laws, all vehicles transporting dangerous goods must be fitted with a two-pole (12 volt) or four-pole (24 volt) isolator switch. This isolator must be fitted in close proximity to the battery and be easily accessible to the driver during an emergency. Switches must be clearly marked with the relevant “on” and “off” positions, as well as the electric shock hazard warning sign and the words “Battery Isolator”.

DEFINITION: “Battery Master Switch” means a bi-polar electrical switch that can be activated/de-activated with an L-shape key, to which is fitted at one end with a bayonet-type or similar socket switch;

COMPLETE BATTERY COVER

Where any dangerous goods carrier is not provided with a fully-enclosed, factory-fitted battery cover on vehicles with externally-mounted batteries, a cover complying with the relevant Regulations and Standards must be fitted. The cover must be ventilated to prevent the build-up of hydrogen vapour and corrosive fumes, but must completely enclose the battery on all sides and top.

FIRE EXTINGUISHERS AND BRACKETS

SANS 1518: Vehicles must be fitted with the following portable, dry powder type fire extinguishers, suitable for inflammability classes A, B and C:

a) Truck tractors - 1 x 9 kg external fire extinguisher
b) Rigid tank trucks - 2 x 9 kg external fire extinguishers
c) Trailers - 2 x 9 kg minimum external fire extinguishers.

Fire extinguishers must be mounted in easily-accessible, quick-release brackets, in a position where they are protected against negative environmental and operational conditions (e.g. corrosive products). Horizontal or vertical mounting must be avoided to prevent compaction of the powder extinguishing agent. Nominal mounting angle is 45º, if possible.

NOTE 1: Reconditioned Fire extinguishers on D/Goods vehicles must be serviced at SIX-MONTH intervals as per SANS 1475-1:2014. (New Extinguishers = 12 Month Service Life)

NOTE 2: Vehicles weighing less than 3,500 kg (GVM) are currently required to be fitted with 2 x 9 kg DCP fire extinguishers.
NOTE 3: Amendment to SANS 10231: 2014 is expected in 2015 where fire extinguisher requirements may change to 2 x 4.5 kg DCP or 1 x 9 kg DCP for Light Delivery Vehicles

VEHICLE PLACARDING

Three dangerous goods placards or panels must be affixed to each cargo containment area of a rigid vehicle, semi-trailer or trailer: one at the rear and one on either side of the vehicle, so as to be clearly visible from the roadside (minimum size prescribed is 700 mm x 400 mm). Vehicles with a GVM less than 3,500 kg may be fitted with reduced-size placards where space does not allow the fitting of the regular size placard (350 mm x 200 mm)

A Danger Warning Diamond must be fitted to the front of a vehicle or a truck tractor so as to be clearly visible from the front. (250mm x 250mm) Vehicles with a GVM less than 3,500 kg may be fitted with a reduced-size danger warning diamond where space does not allow the fitment of a regular-size danger warning diamond (100mm x 100mm). A danger warning diamond must be a square with each side of length 250 mm, set with one of its diagonals vertically. A reduced-size diamond must be a square with each side of length 100 mm, set with one of its diagonals vertically. The colour of the diamond must be orange, and its design must comply with the requirements given in C.3 of SANS 10232-1: 2007.

The full placard, including the 10 mm black border must be clearly visible from the roadside, whether directly fixed on the vehicle, or supported by means of a permanently fixed frame. The placard must be clean, legible and not defaced or obscured at all times.

Freight containers that are being transported by road as part of a journey that includes movement as sea-freight or cross border, must carry split-placards that consist of the appropriate hazard class, subsidiary risk diamonds and goods identification rectangle affixed to either side and each end of the container so that they are clearly visible from both the front, rear and from the roadside (i.e. left & right sides) during transportation and must also meet the requirements of the IMO-IMDG regulations.

Vehicles that transport freight containers that are placarded in accordance with this part of SANS 10232 require only a danger warning diamond in addition to the required documentation in the designated space.

A freight container must have split placards that consist of a goods identification rectangle, a hazard class diamond, or a mixed load diamond and subsidiary risk diamond(s)

NOTE 4: The danger warning diamond must be a square with each side of length 250 mm, set at an angle of 45° (diamond shaped). The reduced-size danger warning diamond must be a square with each side of length 100 mm, set at an angle of 45° (diamond shaped). The colour must be orange.

Dangerous Goods panels/placards must be made of suitable material (ABS, Vinyl or “chromadek” Steel), sufficiently rigid to prevent any distortion when the panel/placard is subjected to forces encountered during transportation, as prescribed in SANS 10232-1.

The signage must appear as follows:

1. Dangerous Goods Placards x 3 per vehicle / per trailer:

2. 290 mm x 290 mm or 190 mm x 190 mm - No Smoking, No Open Flame and No Cell phone decals, as per Municipal Bye-Laws, SANS 15158 and SANS 1157

3. Dangerous goods that are transported at a temperature in excess of 100 °C (in the case of liquids) or 240 °C (in the case of solids) must have 3 elevated temperature warning triangles attached to the cargo unit, one on each side and one on the rear of the unit, so as to be clearly visible from the roadside.

4. The danger warning diamond must be a square with each side of length 250 mm, set at an angle of 45° (diamond shaped). The reduced-size danger warning diamond must be a square with each side of length 100 mm, set at an angle of 45° (diamond shaped). The colour must be orange.

DESIGNATED SPACE

A container, of colour orange and marked with the word “DOCUMENTS” in black, that must be permanently fixed in a clearly visible space near the centre of the cab so as to be easily accessible from either one of the doors or through a broken front window

NOTE: The construction of the container and type of material used are not prescribed.

Drivers must carry the following docs in the “Designated Space”:

- Transport emergency card(s);
- Dangerous Goods Declaration(s) (DGD);
- Waste Classification Certificate/s, if applicable;
- Container Packing Certificate/s, if applicable;
- Nominally Empty Packaging Certificate/s, if applicable.
TRANSPORT EMERGENCY CARDS

A card (valid for 3 years) that lists the hazards and emergency information for a dangerous good being transported, and which is intended for use by the driver of the dangerous goods vehicle but might also be required by the emergency services in the absence of other information, or in support of available information.

Any vehicle used for the transport of dangerous goods must have a transport emergency card for each dangerous goods item in the load.

The transport emergency card is generated either from the European Council of (CEFIC) system, (a TREMCARD), or in accordance with SANS 10232-4, (a TREC).

LOW HAZARD GOODS

SANS 10368: 2007 version 1.1
Transport of low-hazard goods in bulk — Emergency information for road vehicles

Scope: This standard covers the requirements for the placarding of, and documentation for, road tankers, vehicles carrying portable tanks, and other vehicles that exceed 3 500 kg GVM and that transport liquids, powders and granular solids that are not classified as dangerous goods in terms of SANS 10228.

The information on the placards and documents is intended for the use of emergency services when there are large spills that could present an environmental or road user hazard in the short term.

Vehicles requiring “Low Hazard” placarding:
All heavy goods vehicles that transport liquids, powders and granular solids not classified as dangerous goods in bulk or containment units in excess of 1 000 kg, or 1 000 L where applicable, shall carry the emergency information in compliance with the requirements of this standard. Bulk transport may be in the form of fixed tanks, portable tanks, or open and closed load bed trucks.

Placards for rigid vehicles, semi-trailers and trailers
Three placards in accordance with annex A shall be so affixed to each cargo containment area of a rigid vehicle, semi-trailer, or trailer, one at the rear and one on each side of the vehicle, as to be clearly visible from the roadside.

In the case of vehicles carrying containers, the containers themselves shall be placarded on four sides, so as to be clearly visible from the roadside and from the rear of the vehicle at all times.

MUNICIPAL DANGEROUS GOODS PERMITS / FIRE PERMITS

SANS 1357: 2013 Edition 1 - Transport of dangerous goods — Inspection requirements of road vehicles for the issue of municipal dangerous goods transport permits

Scope: This standard is not legislated or incorporated currently into any legislation and only serves a guide to Municipalities when issuing Municipal Dangerous Goods or Fire Permits.

It covers the inspection requirements of road vehicles used to transport dangerous goods as classified in SANS 10228 and in quantities in excess of the exempted quantities as listed in SANS 10231.

The obligation for Municipal Dangerous Goods Transport Permits is a requirement of Municipal Emergency Services, and by the relevant national legislation (Fire Protections Services Act)

VEHICLE REGISTRATION - CATEGORY “D”

Any vehicle conveying dangerous goods must be registered or re-registered as a “Category D and G vehicle at the relevant municipal License Department and must display the correct OPERATOR CARD, category “G, D”.

Re-registration from “G” only to “G, D” requires a full roadworthy test and the vehicle is re-licensed for another 12 months from this re-registration date. Pro-rate license fee credits apply so only the balance of the annual license is payable.

The vehicle must also be fully compliant with regard to all signage, safety devices and equipment, and must be roadworthy in terms of the National Road Traffic Act, 93 of 1996 and Regulations 2000.
CONTACT US

For assistance on any aspect of Dangerous Goods Transport by Road (ADR) please contact one our friendly advisors below:

Brendan Adams 084 810 6984 brendan@hazcomdgr.co.za
Peter Breda 073 467 8287

VEHICLE INSPECTION LIST:

(As per Daily inspection schedule – SANS 10231: 2014 – Table E.2 — Typical daily inspection schedule.)

For ease of reference, HAZCOM-DGR (Pty) Ltd have compiled a comprehensive inspection checklist that can be used to gauge your current level of Dangerous Goods vehicle compliance.

Please refer to page 10 at the back of this brochure

DISCLAIMER:

The information contained herein is provided for the interest and convenience of all parties involved in the transport of dangerous goods by road, namely - commercial vehicle operators, consignors, consignees, drivers and workplace health and safety professionals. Whilst dedicated effort is made to ensure the accuracy and current relevance of the information contained in this publication, HAZCOM-DGR (Pty) Ltd, its associates, employees, servants or agents assume no responsibility for and give no guarantees, undertakings or warranties concerning the accuracy, completeness or current status of the information provided herein, and also do not accept any liability of any nature whatsoever for any loss or damage arising from any acts, errors or omissions committed by parties as a result of information gained from this publication.
In accordance with the South African Road Traffic Act (Act 93 of 1996) Chapter V and Chapter VIII, all vehicles used to transport any listed Dangerous Goods over the specified Exempt Quantities (Table C.1 - SANS 10231: 2014 version 3.1) must comply with:


(which must read in conjunction with “The European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)”

and

SANS 10231: 2014
“Transport of dangerous goods — Operational requirements for road vehicles”

and

SANS 10232-1:2007 Edition 3
Transport of dangerous goods — “Emergency information systems
Part 1: Emergency Information System for Road Transport”,

and

SANS 10232-3:2011 Edition 3.1
Transport of dangerous goods — Emergency information systems
Part 3: Emergency Response Guides
WARNING: Can only be read in conjunction with the U.S. Department of Transportation Research and Special Programs Administration Emergency Response Guidebook

and

SANS 10232-4:2007 Edition 1.1
Transport of dangerous goods — Emergency information systems
Part 4: Transport Emergency Card

and

SANS 10368: 2007 Edition 1.1
Transport of low hazard goods in bulk — Emergency information for road vehicles

and

Applicable Municipal By-Laws regulating the transport of Flammable Substances and/or Dangerous Goods by road in Municipal Areas of jurisdiction

www.sabs.co.za
**Designated Space**

- Prescribed container to store transport documents.
- All Dangerous Goods vehicles must be fitted with a “Designated Space” in the cab, so as to be accessible from the exterior on 3 sides.
- Must be orange, and marked “DOCUMENTS”.
- Must be fixed in place while in motion.
- Available in vinyl bags or steel boxes.
- All relevant documents, e.g. Permits, Tremcards and DGD’s must be placed here whilst en-route with load.

**Danger Warning Diamond**

- Minimum 250 mm x 250 mm (>3500 kg GVM).
- Minimum 100 mm x 100 mm (<3500 kg GVM).
- An Orange Diamond must be displayed the front of all vehicles or combinations when loaded with listed Dangerous Goods, so as to be clearly visible from the front, at any height below the windscreen of the vehicle.
- Must be removed or reversed once load is reduced below “exempt quantity”, offloaded or been certified clean (e.g. tankers).
- Available in vinyl, chromadek, magnetic or ABS.
- Brackets available in galvanized or e-coated mild steel.

**Placards (Panels, Hazchem Boards)**

- 700 mm x 400 mm (>3500 kg GVM).
- 350 mm x 200 mm (<3500 kg GVM).
- Must be fitted to left, right & rear of all vehicles or combinations loaded with Dangerous Goods, so as to be clearly visible from the rear or from the roadside.
- Must be removed or reversed once vehicle is offloaded, or if load falls below “exempt quantity” or vehicle has been certified clean (bulk tankers).
- Available in vinyl, chromadek or ABS.
- Durable brackets also available in galvanized or e-coated mild steel.

**No Smoking Signs**

- 290 mm x 290 mm (>3500 kg GVM – HMV)
- 150 mm x 150 mm (<3500 kg GVM – LDV)
- Must be fitted to left, right & rear of all vehicles or combinations registered to carry Dangerous Goods, so as to be clearly visible from the rear or from the roadside to either side.
- Available in vinyl or chromadek form.

**No Open Flame Signs**

- 290 mm x 290 mm (>3500 kg GVM – HMV)
- 150 mm x 150 mm (<3500 kg GVM – LDV)
- Must be fitted to left, right & rear of all vehicles or combinations registered to carry Dangerous Goods, so as to be clearly visible from the rear or from the roadside to either side.
- Available in vinyl or chromadek form.
No Cell Phone Signs

- 290 mm x 290 mm (>3500 kg GVM)
- 190 mm x 190 mm (<3500 kg GVM)
- Must be fitted to left, right & rear of all vehicles or combinations registered to carry Dangerous Goods, so as to be clearly visible from the rear or from the roadside on either side.
- Available in vinyl or chromadek format.

Elevated Temperature Warning Signs

- 290 mm x 290 mm (>3500 kg GVM)
- 190 mm x 190 mm (<3500 kg GVM)
- For liquid loads hotter than 100° Celsius.
- For solid loads hotter than 240° Celsius.
- Must be fitted to left, right & rear of all vehicles or combinations loaded with elevated temperature loads, so as to be clearly visible from the rear or from the roadside on either side.
- Available in vinyl or chromadek format.

Battery Isolator Switches

- 12 / 24 volt switches supplied and/or fitted.
- All Dangerous Goods Carriers must be fitted with a battery isolator switch, so as to be easily accessible to the driver or emergency services.
- Must be fitted as close as possible to the battery box.
- Must be marked with “ON” and “OFF” position.
- Must be marked with an electrical hazard warning sign.
- Supplied loose or fitted by expert technicians.
- As per SANS 1518, 1157 and Municipal By-Laws

Complete Battery Covers

- Steel or polypropylene “customized” Battery Covers.
- All Dangerous Goods vehicles must be fitted with a cover that completely covers all exterior batteries.
- All terminals & wiring must be protected from accidental short circuiting and be well ventilated.
- Must be insulated or be made of non-conductive material.
- As per SANS 1518 and 1157

DCP Fire Extinguishers

- 9 kg Dry Chemical Powder (DCP) Extinguishers.
- All Dangerous Goods vehicles must be fitted with quick-release mounted fire extinguishers, as follows –
  - Truck Tractors (minimum 1 on drivers side, exterior)
  - All other vehicles (minimum 2 - including all trailers)
- Must be mounted upright on the exterior of each vehicle, so as to be easily accessible to the driver in emergencies
- Must be inspected daily and recorded on vehicle checklist
- Must be serviced every 6 months by authorized agent
Load Body High-Side Extensions
- Steel extensions or beams custom-built & fitted.
- All drop-side, open-body and curtain-side vehicles transporting regulated dangerous goods must comply with rules for minimum load-body side heights
- 600 mm - 1 to 3.5 ton GVM vehicles.
- 600 mm – 3.5 to 8 ton GVM vehicles.
- As per SANS 1518, 1157 and Municipal By-Laws

Driver Training PrDP "D"
- Professional Driver's Permit - Category “D”.
- All Drivers of Dangerous Goods (D) vehicles must be in possession of a valid PrDP - Category “D” and carry proof of training in SAQA US - 123259.
- All D/Goods drivers to undergo training ANNUALLY as per Chapter 8 of the NRTA, Act 93 of 1996 and SANS 10231:2014 - Duties of Drivers.
- Training Courses available “in-house” or anywhere in South Africa at client premises.
- Terms & Conditions apply.

Qualified Person Training
- Dangerous Goods “Qualified Person” Certificate.
- As per SANS 10231: 2014 Duties of Consignors.
- Consignors and Consignees must appoint QP’s
- Identification, classification, labeling, compatibility, mixed load calculation, placarding, documents, etc.
- Training courses presented on request.
- On-site / off-site Training courses available.
- Terms & Conditions apply.

Municipal Transport Permits
- Municipal Dangerous Goods Transport Permits
- All vehicles transporting any listed Dangerous Goods over certain quantities must apply for a 12-month permit under various Municipal Emergency Services By-Laws.
- Assistance in acquiring any Permits anywhere in ZA.
- Accepted by other local authorities in South Africa.
- Permit must be displayed on the windscreen of vehicle.
- Vehicle must be fully compliant with SANS 1518, 1157 and 10231

Transport Emergency Cards
- SABS-format “Treccards” compiled on request.
- Must be an original copy with red borders.
- Must be laminated or protected by plastic.
- Must comply with SANS 10232-4: 2012.
- Valid for three years from date of issue.
- Must be carried in Designated Space whilst transporting Dangerous Goods over exempt quantities.
- One card for each regulated “UN” substance carried.
- Pre-formatted Treccards on CD for repeated printing.
- Computerized TREC Programs for own printing available.
**Marine Pollutant Warning**
- Marine Pollutant Warning Triangles.
- For vehicles carrying containers destined for export by sea, after transport to harbour by road/rail.
- International Maritime Dangerous Goods Code (IMDG).
- One Diamond on each vertical side of a container (4).
- Also for all “Low Hazard” or Dangerous Goods that pose a risk to the environment in the event of spillage.

**First Aid Training & Equipment**
- Regulation 3 First Aid Kits *(as per OHS Act).*
- Wall-Mountable First Aid Boxes.
- Driver First Aid Kits.
- Refill Kits - Regulation 3 Items.
- First Aid Training - Level I
- On-site / off-site training courses available
- Terms & Conditions apply.

**Fire Fighter Training**
- As per OHS Act and SANS 1475-1.
- All potential users of portable fire equipment
- Includes Fire Prevention strategies.
- Emergency Evacuation Training also available.
- Fire Equipment workplace signage.
- On-site / off-site training courses available.
- Terms & Conditions apply

**Hazchem Spill Kits**
- Universal Spill-Containment Kits.
- Universal Spill-Containment Weely® Bins.
- Hydrocarbon Spill Containment Kits.
- Oil Spill-Containment Kits.
- Infectious Substance-Spill Containment Kits.
- Spill-Containment Refill Kits available.

**Low Hazard Placards**
- 700 mm x 400 mm (>3500 kg GVM).
- 350 mm x 200 mm (<3500 kg GVM).
- Must be fitted to left, right & rear of all goods vehicles or combinations loaded with regulated Low Hazard Goods exceeding 1000 kg/ℓ,
- Must be clearly visible from the rear or from the roadside to either side.
- Must be displayed on four sides of shipping containers bound for export.
- Must be removed once vehicle is off-loaded or load is reduced below 1000 kg/litres.
- Available in vinyl, chromadek, magnetic or ABS.
- As per SANS 10368: 2007 version 1.1
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<tr>
<th>No</th>
<th>Compliance Item and Description</th>
<th>Yes</th>
<th>No</th>
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<td>1</td>
<td>Vehicle is roadworthy and displays correct Operator Card: (&quot;D, G&quot;)</td>
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<td>2</td>
<td>Danger Warning Diamond – front (Orange Warning Diamond with Bracket)</td>
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<td>3</td>
<td>Battery Cover – Fully Enclosed (non-conductive) – ventilated</td>
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<td>4</td>
<td>Externally-mounted Battery Master / Isolator switch (marked &quot;ON&quot; and &quot;OFF&quot;)</td>
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<td>5</td>
<td>Mounting Brackets and Placards – x 3 per registered Vehicle / Trailer (This Section is not applicable to Truck Tractors)</td>
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<td>5.1</td>
<td>RHS side of vehicle</td>
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<td>5.2</td>
<td>LHS side of vehicle</td>
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<td>Rear of vehicle</td>
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<td>5.4</td>
<td>&quot;No Smoking&quot; signs on all three sides</td>
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<td>5.5</td>
<td>&quot;No Open Flame&quot; signs on all three sides</td>
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<td>5.6</td>
<td>&quot;No Cell Phone&quot; signs on all three sides</td>
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<td>6</td>
<td>Fire Extinguishers – x 2 for all D/Goods Vehicles (Truck Tractors x 1)</td>
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<td>6.1</td>
<td>Correct type / size (4.5 / 9 Kg DCP)</td>
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<td>6.2</td>
<td>Service label visible and current</td>
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<td>6.3</td>
<td>Quick release type and accessible</td>
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<td>6.4</td>
<td>Extinguishers pressurized / charged with gauge indicating green</td>
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<td>6.5</td>
<td>Wheel Chocks for Vehicles &amp; Trailers &gt; 3,500 kg GVM – heavy duty, non-sparking</td>
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<td>7</td>
<td>Dangerous Goods Transport Documentation</td>
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<td>7.1</td>
<td>Designated Space (&quot;Document” holder / Orange container) centre of cab</td>
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<td>7.2</td>
<td>Compatibility Chart for Mixed Loads</td>
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<td>7.3</td>
<td>Transport Emergency Card/s (TREM CARD / TREC)</td>
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<td>7.4</td>
<td>Dangerous Goods Declaration(s) (DGD) for each consignment / delivery</td>
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<td>7.5</td>
<td>Route instructions and/or route plan (may be verbally agreed between parties)</td>
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<td>7.6</td>
<td>MSDS and/or any other additional or relevant emergency information</td>
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<td>8</td>
<td>Loading and Containment Area</td>
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<td>8.1</td>
<td>Clean, uncontaminated and no evidence of previous spills or leaks</td>
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<td>8.2</td>
<td>Packaged-goods vehicles – load body sides extend at least 600 mm from floor</td>
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<td>8.3</td>
<td>Cab separation/partition/bulkhead between driver and goods compartment</td>
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<td>8.4</td>
<td>Adequate ventilation in goods compartment for goods emitting vapours or fumes</td>
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<td>9</td>
<td>Personal Protective Clothing and Equipment (PER MSDS)</td>
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<td>9.1</td>
<td>Body Protection</td>
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<td>Hand Protection</td>
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<td>Foot Protection</td>
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<td>Respiratory Protection</td>
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<td>10</td>
<td>Permits, Licenses, Medical Certificates &amp; Training</td>
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<td>10.1</td>
<td>Municipal Dangerous Goods Transport Permit - Permit №;</td>
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<td>10.2</td>
<td>Explosive/Radioactive permit - Permit №</td>
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<td>10.3</td>
<td>Hazardous Waste Transporter Permit / Certificate - №</td>
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<td>10.4</td>
<td>Driver – Annual Training Certificate - ID №;</td>
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<td>10.5</td>
<td>Valid Driver’s License and PrDP – “D” (D,G,P)</td>
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<tr>
<td>10.6</td>
<td>Driver’s Medical Certificate (valid – not older than 6 months)</td>
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**Note:**

Please note that vehicles less than 3,500 kg GVM are subject to reduced-size specifications on signage and some equipment, as listed above.