ROAD ( NATIONAL ROAD TRAFFIC ACT 93 OF 1996 & IT’S AMENDMENTS OPERATIONAL REQUIREMENTS & EMERGENCY INFORMATION SYSTEMS

DGR Compliance Solutions incorporating EC Logistics

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NATIONAL ROAD TRAFFIC ACT 93 OF 1996 & IT’S AMENDMENT’S
TRANSPORT OF DANGEROUS GOODS BY ROAD
OPERATIONAL REQUIREMENTS & EMERGENCY INFORMATION SYSTEMS
CHAPTER VIII : TRANSPORTATION OF DANGEROUS GOODS

REGULATION : 280

Incorporating:

SAQA UNIT STANDARD 123259

TRANSPORT (CONVEY) DANGEROUS GOODS BY ROAD

&

  Part 1 - Emergency Information Systems for Road Transport
- SANS 10232.4: 2015 Edition 1.3 – Transportation of Dangerous Goods:
  Part 4 – Transport Emergency Card
PART 01
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INTRODUCTION
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INTRODUCTION

- SANS 10231 establishes rules and procedures for the safe operation and handling of all road vehicles that are used for the transport of Dangerous Goods in accordance with the load constraints.

The procedures include requirements for the Consignor, the Consignee, the Operator, the Driver, the Qualified Person as well as en route procedures and cargo handling.

03

SOUTH AFRICAN ACTS

RELEVANT TO THE

TRANSPORTATION OF

DANGEROUS GOODS

IN SOUTH AFRICA
OPERATIONAL REQUIREMENTS

NATIONAL ROAD TRAFFIC ACT 93 OF 1996 & IT’S AMENDMENTS:

DANGEROUS GOODS ARE REFERENCED IN CHAPTER VIII (8)

- This is the Legislation dealing with the transportation of Dangerous Goods within the borders of South Africa.
- Chapter VIII (8) contains the Regulations and also refers to other Acts as well as the SANS Standards directly dealing with the transportation of Dangerous Goods.
- The regulations referenced in Chapter VIII (8) are:
  - Regulations 273 to Regulation 283 b
- SANS Standards referenced in the act, in turn reference to other SANS Standards and by doing so, these other SANS Standards also become part of the Legislated compliance requirements.

OPERATIONAL REQUIREMENTS

SOUTH AFRICAN ACTS THAT ARE RELEVANT TO THE TRANSPORT OF DANGEROUS GOODS IN SOUTH AFRICA:

1. National Road Traffic Act – No 93 of 1996 & it’s amendments
2. Occupational Health & Safety Act - No 85 of 1993 & it’s amendments
3. Fire Brigade Services Act – No 99 of 1987 & it’s amendments
4. Explosives Act – No 26 of 1956 & it’s amendments
5. Nuclear Energy Act – No 46 of 1999 & it’s amendments
OPERATIONAL REQUIREMENTS

SOUTH AFRICAN ACTS THAT ARE RELEVANT TO THE TRANSPORT OF DANGEROUS GOODS IN SOUTH AFRICA (CONT..):

6. Customs and Excise Act – No 91 of 1964 & its amendments
8. Fire Arms Control Act – No 60 of 2000 & its amendments

04
OTHER SANS STANDARDS LINKED TO SANS 10231 & SANS 10232.1
OPERATIONAL REQUIREMENTS

SANS STANDARDS REFERENCED FOR OPERATIONAL REQUIREMENTS & EMERGENCY INFORMATION SYSTEMS

- **SANS 10228**: The identification and classification of Dangerous Goods for transport by road and rail modes
- **SANS 10229-1**: Transportation of Dangerous Goods: Packaging and large packaging for road and rail transport – Part 1: Packaging
- **SANS 10229-2**: Transport of Dangerous Goods: Packaging and large packaging for road and rail transport – Part 2 – Large Packaging
- **SANS 10231**: Transport of dangerous goods by road – Operational requirements

SANS STANDARDS REFERENCED FOR OPERATIONAL REQUIREMENTS & EMERGENCY INFORMATION SYSTEMS

- **SANS 10232-1**: Transport of Dangerous Goods – Emergency information systems: Part 1: Emergency information system for road transport
- **SANS 10232-4**: Transport of Dangerous Goods – Emergency information systems: Part 4: Transport emergency card
- **SANS 10233**: Transport of dangerous goods by road – Intermediate bulk containers for road and rail transport
OPERATIONAL REQUIREMENTS

SANS STANDARDS REFERENCED FOR OPERATIONAL REQUIREMENTS & EMERGENCY INFORMATION SYSTEMS

- **SANS 1157**: Inspection requirements for road vehicles for the issue of municipal dangerous goods transport permits
- **SANS 10047**: The testing of motor vehicles for roadworthiness
- **SANS 1518**: Transport of Dangerous Goods – Design, construction, testing, approval & maintenance of road vehicles and portable tanks
- **SANS 10187-8**: Load securement on vehicles – Part 8: Dangerous Goods

- **SANS 1091**: National colour standard
- **SANS 1567**: Portable rechargeable fire extinguishers – CO₂ type extinguishers
- **SANS 1910**: Portable refillable fire extinguishers
- **SANS 1475-1**: The production of reconditioned fire fighting equipment
  Part 1: Portable and wheeled (mobile) rechargeable fire extinguishers
OPERATIONAL REQUIREMENTS

SANS STANDARDS REFERENCED FOR OPERATIONAL REQUIREMENTS
& EMERGENCY INFORMATION SYSTEMS

- SANS 10206:
  The handling, storage and disposal of pesticides
- SANS 10406:
  Transport of dangerous goods – The reprocessing of previously certified packaging

05
PARTIES AFFECTED BY
THIS LEGISLATION
TRANSPORTATION OF DANGEROUS GOODS:

EXAMPLES OF PARTIES AFFECTED BY
CHAPTER VIII OF THE NATIONAL ROAD TRAFFIC ACT
( ACT 93 OF 1996 ) & IT’S AMENDMENTS

*** IF THE EXEMPT QUANTITIES TRANSPORTED ARE EXCEEDED ***

MANUFACTURERS, CONSIGNORS, OPERATORS, SUB OPERATORS, DRIVERS
WAREHOUSE / STORE OPERATORS, CONSIGNOR AGENTS,
OPERATOR AGENTS, MARKETING AGENTS, SALES AGENTS,
TRANSPORT BROKERS, FREIGHT CLEARING AGENTS,
COURIER COMPANIES, WHOLESALERS, RETAILERS,
VEHICLE HIRE COMPANIES, CONSIGNEE’S, COMMERCIAL FARMERS

( All entities and individual person's who earn a financial reward must
comply fully to the South African Dangerous Goods legislation,
Individual persons transporting for own personal use are exempted )

06
DEFINITIONS OF THE PARTIES
DEFINITIONS OF THE PARTIES:

1. PRODUCT MANUFACTURER:
   Person / Company who manufacture or produces the product

2. CONSIGNOR:
   Person / Company who offers Dangerous Goods for transport in a vehicle referred to
   in the relevant national legislation

3. PRODUCT OWNER:
   Person / Company who has legal ownership of the product at a particular time

4. PARTY THAT CONTRACTS THE OPERATOR (Transporter):
   Person / Company who enters into a contract for the transport of Dangerous Goods
   with the Operator

5. PRODUCT CUSTODIAN:
   Person / Company who has control of the Dangerous Goods at a particular time, but
   does not necessarily own the goods

6. OPERATOR (Owner of the Vehicle or Designated Owner):
   Person / Company who is responsible for the use of a motor vehicle for the transport
   of Dangerous Goods as defined in the relevant national legislation

7. CONSIGNEE:
   Person / Company who takes final physical ownership of the Dangerous Goods
   product
DEFINITIONS OF THE PARTIES (cont.):

8 WASTE GENERATOR - CONSIGNOR:
Any person whose actions, production process or activities, including waste management activities, results in classified waste.

A waste manager means any person that re-uses, recycles, recovers, treats, or disposes of waste including the waste generator.

07 GENERAL DEFINITIONS
(Referenced in SANS 10231 & SANS 10232.1)
SANS 10231:
OPERATIONAL REQUIREMENTS
FOR ROAD VEHICLES

&

SANS 10232.1:
TRANSPORT OF DANGEROUS GOODS:
EMERGENCY INFORMATION SYSTEMS FOR
ROAD TRANSPORT

GENERAL DEFINITIONS

01) COMPETENT AUTHORITY
National body or authority designated, or otherwise recognized, for the control or
regulation of a particular aspect of the transport of dangerous goods

02) INVOLVEMENT OF AUTHORITIES
Direct involvement of the authorities (either the emergency responders or police
services) during the event involving dangerous goods and the evacuation of persons
or closure of public traffic routes (Roads/Railway lines) for at least 3 hours owing to
the danger posed by the dangerous goods

03) QUALIFIED PERSON
Person trained to perform a specific task, and nominated by the operator, the
consignor or the consignee – could be Formal or Informal training

04) COMPETENT PERSON
Person with the necessary skills and knowledge to carry out a specific task
GENERAL DEFINITIONS

05) DANGEROUS GOODS
Commodities, substances and goods as listed in SANS 10228, including Waste of the commodities, substances and goods

06) THE UNITED NATIONS NUMBER
A number allocated to an item of Dangerous Goods in accordance with the United Nations recommendations on the transport of Dangerous Goods as listed in SANS 10228 (Example: Diesel is classified as UN 1202)

07) GUIDE NUMBER
A number as listed in Emergency Response Guidebook indicating potential hazards and appropriate action in the case of an incident

08) SINGLE LOAD
Dangerous goods cargo that comprises either a single substance or goods that have the same UN Number

09) MIXED LOAD (MULTI LOAD no longer appears in national legislation)
Compatible load of dangerous goods of different classes or different goods of the same class loaded on a vehicle

10) EXEMPT QUANTITY
Quantity of dangerous goods which, if not exceeded in the total load, is exempt from the requirements of SANS 10231

11) LOAD CONSTRAINTS
Exempt quantities, load compatibilities and exemptions applicable to the transport of dangerous goods covered in SANS 10231

12) SMALL CONTAINER
Receptacle having an internal volume of not less than 1 m³, and not more than 3 m³
IMPORTANT DEFINITIONS FOUND IN THE ACT AND STANDARDS PUBLISHED BY STANDARDS SOUTH AFRICA (STANSA)

GENERAL DEFINITIONS

13) LARGE CONTAINER
Receptacle having an internal volume of more than 3 m³

14) CERTIFIED CLEAN
Description of a vehicle, freight container or tank container that has carried goods listed in SANS 10228 as dangerous, but is now free from contamination by such cargo and has been certified as such

15) INCIDENT
Occurrence of any extra-ordinary condition or event during the transport or temporary storage of dangerous goods on a public road which includes incidents such as leakage, spillage, fire or any other unplanned events that could endanger the public or potentially cause serious pollution of or to the detriment of the environment whether immediately or delayed, and which results in a reduction of road capacity, or creates a hazard for road users, or if the authorities were involved

16) TRANSPORT EMERGENCY CARD
Card which is generated in accordance with SANS 10232 (All parts)

17) DANGEROUS GOODS DECLARATION
Document that describes and states the quantity of dangerous goods being transported from a consignor to a consignee

18) DESIGNATED SPACE
Container, of the colour Orange and marked with the word “DOCUMENTS”, in black, which is securely fixed and cannot be dislodged unintentionally, and in a clearly visible space in the cab so as to be easily accessible from either door or through a broken front window

19) DANGEROUS GOODS PLACARD
Single placard with separate, delineated zones for goods identification, telephonic advice numbers and the appropriate hazard class diamond

20) DANGER WARNING DIAMOND
Orange diamond that is displayed on the front of the vehicle
GENERAL DEFINITIONS

21) FREIGHT CONTAINER
Free-standing containment unit, used for the transport of dangerous goods, of a permanent character and strong enough for repeated use, designed specifically for the carriage of goods by more than one mode of transport and that complies with the requirements of ISO 1496-1

22) SPLIT PLACARD
System of placarding where a rectangle that contains the UN Number and a hazard class diamond are affixed in close proximity as required for freight containers in accordance with the IMDG regulations

08
EXEMPTIONS TO THIS LEGISLATION
OPERATIONAL REQUIREMENTS

EXEMPTIONS TO THIS LEGISLATION:

- EXEMPTIONS RELATED TO THE NATURE OF THE TRANSPORT OPERATION

The requirements of this standard shall not apply to the following:

1. The transport of dangerous goods by private individuals where the goods in question are packaged for retail sale and are intended for their personal or domestic use or for their leisure or sporting activities.

   NOTE:
   Dangerous goods in IBC's, large packaging or tanks in excess of exempted quantities are not considered to be for personal or domestic use or for their leisure or sporting activities.

2. The transport of machinery or equipment not specified in this clause and which contain dangerous goods in their internal or operational equipment provided that measures have been taken to prevent any leakage of contents in normal conditions of transport.

OPERATIONAL REQUIREMENTS

EXEMPTIONS TO THIS LEGISLATION (Cont.):

3. The transport undertaken by or under the supervision of the emergency services, insofar as such transport is necessary in relation to the emergency response, in particular transport undertaken:

   A. By breakdown vehicles carrying vehicles which have been involved in accidents or have broken down and contain dangerous goods.
   B. To contain and recover the dangerous goods involved in an incident or accident and move them to a safe place.

4. Emergency transport intended to save human lives or protect the environment provided that all measures are taken to ensure that such transport is carried out in complete safety.
OPERATIONAL REQUIREMENTS

EXEMPTIONS TO THIS LEGISLATION (cont.):

5 The Dangerous Goods are exempt from road transport regulations by special provision in SANS 10228 or are less than the Exempt Quantity as listed in SANS 10231

6 The goods are transported by a bona fide farmer or an employee of the farmer and are intended for use in farming operations provided that:
   a) The goods are not used for resale either in their original form or in combination with any other substance
   b) The journey does not exceed 250 km of which no more than 50 km shall be on a main arterial road designated with a “N” number
   c) The quantity of classified Dangerous Goods in liquid form does not exceed 1000 litres
   d) The quantity of classified Dangerous Goods in solid form does not exceed 1000 kg
   e) The quantity of classified Dangerous Goods transported in a mixed load containing goods in both liquid and solid form, in kg's or litres does not exceed 1000

OPERATIONAL REQUIREMENTS

EXEMPTIONS TO THIS LEGISLATION:

- EXEMPTIONS RELATED TO THE TRANSPORT OF GASES

   The requirements of this standard shall not apply to the following:

1 Gases contained in the tanks of a vehicle, performing a transport operation for its propulsion, or for the operation of any of its equipment (e.g. Refrigerating equipment)

2 Gases contained in the fuel tanks of vehicles transported
   The fuel cock between gas tank and engine shall be closed and the electric contact open
OPERATIONAL REQUIREMENTS

EXEMPTIONS TO THIS LEGISLATION:

- EXEMPTIONS RELATED TO THE TRANSPORT OF LIQUID FUELS

The requirements of this standard shall not apply to the following:

1. Fuel contained in tanks of a vehicle performing a transport operation and intended for the operation of any of its equipment with the following restrictions:

   A. When contained in tanks permanently connected to the vehicle’s engine and/or auxiliary equipment, it shall not exceed the quantities specified in B.

   B. When contained in portable fuel containers (such as Jerri cans), a maximum of 60 Litres may be carried per vehicle, or combination of vehicles.

2. Fuel contained in the tanks of vehicles or of other means of conveyance (such as boats) which are carried as a load, where it is destined for their propulsion or the operation of any of their equipment.

   Any fuel cocks between the engine or equipment and the fuel tank shall be closed during carriage unless it is essential for the equipment to remain operational.

   The load shall be stored upright and secured against falling.

3. The fuel is moved between adjacent premises, not more than 1 km apart.
OPERATIONAL REQUIREMENTS

NOTE:

THE ABOVE MENTIONED EXEMPTIONS DO NOT APPLY TO:

Class 1: The Explosives Act

Class 7: Radioactive Material – Nuclear Energy Act

 Shall take precedence over the National Road Traffic Act No 93 of 1996 & it’s amendments where conflicting requirements exist

09

PARTIES RESPONSIBILITIES:

CONSIGNOR
PARTIES RESPONSIBILITIES:

CONSIGNOR

NOTE:

The Consignor can be the product Manufacturer, the product Owner, the product Custodian or the part that contracts the Operator.

The Consignor of Dangerous Goods for transport by road vehicle shall be responsible for ensuring that:

1. Goods are correctly classified in accordance with SANS 10228
2. Goods are packaged in accordance with SANS 10229-1 and SANS 10233

NOTE:

AIR (IATA / ICAO)

Imported dangerous goods that arrive by air and that are packed in accordance with the ICAO Technical Instructions for the safe transport of dangerous goods by air or the IATA Dangerous Goods regulations.

Or

SEA (IMDG)

Goods arriving by sea and are packed in accordance with the IMDG Code of the IMO, are acceptable for inland transport by road or rail, provided that marking for the UN Number and shipping name are displayed in English.
PARTIES RESPONSIBILITIES:

CONSIGNOR (cont.)

3 Loading of the Dangerous Goods is carried out by a Qualified Person(s) trained in the relevant procedures

4 The driver is provided with a signed Dangerous Goods Declaration (DGD) or Waste Dangerous Goods Declaration (WDGD)

5 The placards and transport emergency card(s), are supplied to the Operator, or the information with regard to the correct placards is supplied to the Operator, in order to enable the Operator to provide the relevant placarding and transport emergency card(s)

SANS 10228:

The Identification and Classification of Dangerous Goods and Substances

Covers the Identification of Dangerous Substances and Goods that are capable of posing a significant risk to health and safety or to property and the environment

Covers requirements for all modes of transport
Example of Dangerous Goods classification found in SANS 10228:

<table>
<thead>
<tr>
<th>UN NO</th>
<th>TECHNICAL NAME &amp; DESCRIPTION</th>
<th>CLASS</th>
<th>DANGER GROUP</th>
<th>SUB. RISK</th>
<th>SANS 10229 PACKAGING METHOD</th>
<th>SPECIAL PROVISIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>3065</td>
<td>ALCOHOLIC BEVERAGES</td>
<td>3</td>
<td>II / III</td>
<td>13.3</td>
<td>144, 145, 247</td>
<td></td>
</tr>
<tr>
<td>1748</td>
<td>CALCIUM HYPOCHLORITE</td>
<td>5.1</td>
<td>II</td>
<td>13.5.1.2</td>
<td>13.3</td>
<td>109, 130</td>
</tr>
<tr>
<td>3021</td>
<td>PESTICIDE, LIQUID, FLAMMABLE, TOXIC, N. O. S. FLASH POINT &lt; 23 °C</td>
<td>6.1</td>
<td>I / II</td>
<td>6.1</td>
<td>13.3</td>
<td>109, 130</td>
</tr>
<tr>
<td>3082</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.</td>
<td>9</td>
<td>III</td>
<td>13.9.3</td>
<td>179</td>
<td></td>
</tr>
</tbody>
</table>

SAFETY DATA SHEETS

It is the responsibility of all Consignors and their Agents to provide Consignee’s with the relevant Safety Data Sheet as per:

Occupational Health & Safety Act, 993 (Act 85 of 1993) & it’s amendments
OPERATIONAL REQUIREMENTS

SANS 10229 :
Transport of Dangerous Goods – Packaging and Large Packaging for Road and Rail transport

Identifies various methods of packaging that are suitable for prescribed maximum quantities of Dangerous Goods that may be offered for transportation by road or by rail in South Africa

Describes minimum performance requirements for the packaging, the procedures to be followed to obtain approval from testing or certification authorities and gives details of the labels and marking to be displayed on the packaging

10
PARTIES RESPONSIBILITIES :

OPERATOR
OPERATIONAL REQUIREMENTS

PARTIES RESPONSIBILITIES:

OPERATOR

1. The Owner of a motor vehicle is the Operator thereof, unless he/she has concluded an agreement with another person or company in relation to the operation of the vehicle.
   - In the case of such an agreement the person or company identified as such in the agreement is deemed to be the Operator for the duration of the agreement.

2. The Operator shall be registered as a Dangerous Goods Operator with the relevant Government Department (via the licencing department) and shall ensure that a valid Dangerous Goods Operator Card is displayed on the vehicle used for the transport of Dangerous Goods.
   - This process automatically registers the Operator as a Dangerous Goods Operator with the Department of Transport.

OPERATIONAL REQUIREMENTS

PARTIES RESPONSIBILITIES:

OPERATOR (cont.)

3. The Operator shall agree a basic route with the Driver, incorporating any specific requirements of any local authority en route. The Operator shall inform the local authority of the areas through which the vehicle will pass, and shall provide them with full information regarding the product to be transported (when requested by the local authority), the nature of its hazard and the intended route. When the nature of business requires the transport of similar cargo on a regular basis, it will be sufficient to submit this information at the start of operations only. The Operator shall, however, inform the appropriate local authority of the discontinuation of such operations and of any change in the operations that might influence the hazard.

   NOTE:
   The local authority, if concerned about a particular product passing through a specific area may require the Operator to use alternative routes to reach its destination.
OPERATIONAL REQUIREMENTS

PARTIES RESPONSIBILITIES:

OPERATOR (cont.)

4. The Operator shall ensure that the Driver of a heavy (GVM + 3500 KG) vehicle containing Dangerous Goods is in possession of a valid Pr-DP-D Driving permit appropriate to the class of vehicle being driven and has received the required training as per Regulation 280 of Chapter VIII of the National Road Traffic Act 93 of 1996 & it’s amendments.

OPERATIONAL REQUIREMENTS

PARTIES RESPONSIBILITIES:

OPERATOR (cont.)

5. The Operator shall, on being informed of an incident involving one of his/her vehicles covered by SANS 10231, ensure that the Emergency Services and the Police have been informed. The Operator shall prepare an incident report and submit it to the relevant national authority within 30 days of the incident. The Operator shall also retain the incident report for a period of 5 years.

The relevant emergency services shall be notified by the Operator before any transfer of cargo between the scheduled loading and off-loading points. A competent person shall supervise the transfer of cargo.
OPERATIONAL REQUIREMENTS

PARTIES RESPONSIBILITIES:

OPERATOR (cont.)

NOTE:

Where a vehicle transporting Dangerous Goods has been stopped and found to be overloaded, it can in some cases be safer to allow the vehicle to proceed under the escort of the Emergency Services to another site, where transfer of the cargo can be carried out without undue risk.

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OPERATIONAL REQUIREMENTS

PARTIES RESPONSIBILITIES:

OPERATOR (cont.)

6. If a vehicle is involved in an incident in which there is the risk of damage to its cargo containment, the Operator shall submit the vehicle for inspection in accordance with the requirements of SANS 1518, Where applicable, and for compliance with SANS 10047, before putting the vehicle back into service for the transport of Dangerous Goods.

7. The Operator shall ensure that safety equipment required by the driver in accordance with the transport emergency card, is provided, and that the driver is trained in the operation of such equipment.
OPERATIONAL REQUIREMENTS

PARTIES RESPONSIBILITIES :

OPERATOR ( cont. )

8 The Operator shall be responsible for ensuring that the vehicle and equipment fitted to the vehicle complies with all applicable statutory requirements with regard to :

A The applicable vehicle design standard
B The vehicle roadworthiness and it’s suitability for the consignment being carried
C The serviceability of the consignment handling equipment and consignment containment areas

9 The Operator shall be responsible for ensuring that measures are put in place to prevent vehicle overloading or under loading

10 The Operator shall be responsible for ensuring that the vehicle and equipment are maintained and inspected by a competent person

PARTIES RESPONSIBILITIES :

DRIVER

TRAINING , LICENCING , CHECKS , TIME LIMITS
OPERATIONAL REQUIREMENTS

PARTIES RESPONSIBILITIES:

DRIVER

SKILLS AND TRAINING

The driver of a Dangerous Goods vehicle shall:

a) Have a Pr-DP-D and carry it on his person, where required in terms of national legislation
b) Be fit to drive in terms of the relevant national legislation
c) Be able to interpret and implement the instructions on the transport emergency card
d) Receive annual comprehensive theoretical and practical training relevant to the type of vehicle and to the dangerous goods which will be assigned to him/her, including training in the procedures specific to the cargo
e) Carry a valid training certificate or a certified copy of the training certificate
f) Receive training to perform pre-journey vehicle inspections to determine roadworthiness

Annual training of both light and heavy vehicle drivers is to be conducted by accredited and approved training providers !!!!!!
### CLASS OF MOTOR VEHICLE LICENCES & WHICH REQUIRE A Pr-DP-D DRIVING PERMIT

<table>
<thead>
<tr>
<th>NEW K53 CODE</th>
<th>OLD CODE</th>
<th>DESCRIPTION</th>
<th>REQUIRES A Pr-DP-D</th>
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</thead>
<tbody>
<tr>
<td>1 A1</td>
<td>02</td>
<td>MOTOR CYCLE WITHOUT A SIDECAR, WITH ENGINE NOT EXCEEDING 125 CM³</td>
<td>NO</td>
</tr>
<tr>
<td>2 A</td>
<td>02</td>
<td>MOTOR CYCLE WITHOUT A SIDECAR, WITH ENGINE EXCEEDING 125 CM³</td>
<td>NO</td>
</tr>
<tr>
<td>3 B</td>
<td>08</td>
<td>LIGHT MOTOR VEHICLE, TARE NOT EXCEEDING 3500 KG OR MINIBUS, BUS OR GOODS VEHICLE, GVM NOT EXCEEDING 3500 KG</td>
<td>NO</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NOT ARTICULATED</td>
<td></td>
</tr>
<tr>
<td>4 EB</td>
<td>08</td>
<td>LIGHT MOTOR VEHICLE OR COMBINATION OF MOTOR VEHICLE AND TRAILER, THE GVM OF WHICH EXCEEDS 750 KG, GCM OF DRAWING VEHICLE NOT EXCEEDING 3500 KG, ARTICULATED</td>
<td>NO</td>
</tr>
</tbody>
</table>

### CLASS OF MOTOR VEHICLE LICENCES & WHICH REQUIRE A Pr-DP-D DRIVING PERMIT

<table>
<thead>
<tr>
<th>NEW K53 CODE</th>
<th>OLD CODE</th>
<th>DESCRIPTION</th>
<th>REQUIRES A Pr-DP-D</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 C1</td>
<td>10</td>
<td>HEAVY MOTOR VEHICLE, TARE EXCEEDING 3500 KG, BUT NOT EXCEEDING 16000 KG, OR MINIBUS, BUS OR GOODS VEHICLE, GVM EXCEEDING 3500 KG BUT NOT EXCEEDING 16000 KG, NOT ARTICULATED</td>
<td>YES</td>
</tr>
<tr>
<td>6 C</td>
<td>10</td>
<td>EXTRA HEAVY MOTOR VEHICLE, TARE EXCEEDING 16000 KG OR BUS OR GOODS VEHICLE, GVM EXCEEDING 16000 KG, NOT ARTICULATED</td>
<td>YES</td>
</tr>
<tr>
<td>7 EC1</td>
<td>14</td>
<td>HEAVY MOTOR VEHICLE OR COMBINATION OF MOTOR VEHICLE AND TRAILER, THE GVM OF WHICH EXCEEDS 750 KG, GCM OF THE DRAWING VEHICLE EXCEEDING 3500 KG, BUT NOT EXCEEDING 16000 KG ARTICULATED</td>
<td>YES</td>
</tr>
<tr>
<td>8 EC</td>
<td>14</td>
<td>EXTRA HEAVY MOTOR VEHICLE OR COMBINATION OF MOTOR VEHICLE AND TRAILER, THE GVM OF WHICH EXCEEDS 750 KG, GCM OF DRAWING VEHICLE EXCEEDING 16000 KG ARTICULATED</td>
<td>YES</td>
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</table>
Pr-DP-D DRIVING PERMIT

REQUIRED BY DRIVERS OF VEHICLES WITH A
GROSS VEHICLE MASS IN EXCESS OF 3500 KG’S

DRIVER REQUIREMENTS

REQUIREMENTS OF A PUBLIC DRIVING PERMIT
( Pr-DP-D )

WHAT IS A PUBLIC DRIVING PERMIT “ D “

A driving permit required in terms of the National Road Traffic Act 93 of 1996 ,
to be obtained by a driver conveying Dangerous Goods

WHO REQUIRES THIS DRIVING PERMIT

A driver of a goods vehicle with a Gross Vehicle Mass exceeding 3500 kg’s
conveying Dangerous Goods of Class 1 to Class 9

Applies to Packaged and Bulk transportation
DRIVER REQUIREMENTS

REQUIREMENTS OF A PUBLIC DRIVING PERMIT
( Pr-DP-D )

REGULATION 115 ( 1F ) :
A motor vehicle the gross vehicle mass of which exceeds 3500 kg’s transporting Dangerous Goods to which Regulation 273 to 283 of Chapter VIII – Transportation of Dangerous Goods apply
Regulation 274 refers to this requirement

REGULATION 116 C :
Categories of, and Authority conveyed by :
PUBLIC DRIVING PERMIT :
CATEGORY “ D ” Which authorises the driving of a motor vehicle referred to in Regulation 115 ( 1 )

DRIVER REQUIREMENTS :

QUALIFICATION TO OBTAIN A PUBLIC DRIVING PERMIT
( Pr-DP-D )

REGULATION 117 :
A PROFESSIONAL DRIVING PERMIT SHALL ONLY BE ISSUED BY A DRIVING LICENCE TESTING CENTRE :

• If the applicant is in possession of a valid driving licence for a motor vehicle in respect of which the permit is applied for

• If the applicant is over the age of 25 years

• A registered Medical Practitioner or Occupational Health Practitioner has examined the applicant to determine whether or not he / she is disqualified from driving a motor vehicle as contemplated in Section 115 ( 1f ) of the Act, and has certified the applicant to be medically fit on Form MC , not more than 2 month’s prior to the date of application

• The applicant for a “ D ” Permit holds a certificate obtained from an approved Training body as contemplated in Regulation 280, not more than 6 month’s prior to the date of application
PR DP D:
MEDICAL CERTIFICATE

REGULATION 117: (CONTINUED)

• If the applicant has, within a period of 5 years prior to the date of application, been convicted of or has paid an admission of guilt for:
  • Driving a motor vehicle while under the influence of Intoxicating Liquor or a Drug having a Narcotic effect
  • Driving a motor vehicle while the concentration of Alcohol in his/her blood or breath exceeds the statutory limitation
  • Reckless Driving
  • In the case of a “D” PERMIT, an offence of which Violence was an element
  • During any period for which a Professional Driving Permit or Driving Licence held by the applicant has been suspended or if such Permit or Licence has been cancelled
DRIVER RESPONSIBILITIES

PRE – JOURNEY CHECKS:

Before proceeding to the loading site, the Driver shall carry out the checks detailed below:

Before driving to the loading site, the Driver shall ensure –

A  A valid Dangerous Goods Operator Card is displayed, as required by national legislation
B  At the start of his journey, or after every overnight stop, go through the Daily vehicle inspection check list and ensure the vehicle defects, if any, are noted and repaired
C  The vehicle is free of any product likely to contaminate the load or create a safety hazard

LOADING & OFFLOADING CHECKS:

At the loading or offloading site, before loading or offloading commences, the Driver shall ensure that:

A  The site appears suitable for loading or offloading
B  Permission has been given for loading or offloading to commence
DRIVER RESPONSIBILITIES

PARKING OF VEHICLES WHILE LOADING, UNLOADING OR NOT IN USE

C The vehicle is positioned as directed for loading or offloading: Vehicle must be able to exit the premises driving in a forward direction ONLY

No reversing is permitted to exit
Driver must have direct forward vision at all time

DRIVER RESPONSIBILITIES

AFTER LOADING CHECKS:

At the loading site, on completion of loading, the Driver shall ensure that:

A The correct transport emergency card(s), Dangerous Goods Declaration(s) / Waste Dangerous Goods Declarations, are stored in the designated space

B Only emergency information documents for the current load and licences and permits as required by national legislation are stored in the designated space, and all non-related documentation is removed

C The necessary safety equipment in accordance with the transport emergency card(s) is on board including a Vehicle First Aid Kit and at least 2 litres of water
DRIVER RESPONSIBILITIES

AFTER LOADING CHECKS : ( CONT.. )

D  The driver understands the information and instructions on the transport emergency card(s)
E  The Orange Warning Diamond and correct Placards are in place
F  The vehicle is not overloaded or under loaded as to present a safety risk, and the load is properly secured

12
OPERATIONAL REQUIREMENTS :

EN ROUTE PROCEDURES

( Behaviour on Route )
OPERATIONAL REQUIREMENTS

OPERATIONAL REQUIREMENTS :
EN ROUTE PROCEDURES

1. The Driver shall not allow any passengers or unauthorised persons to be in or on the vehicle at any stage during the journey.
2. The Driver shall adhere to the agreed route and authorised stopping places, unless directed otherwise by a member of the Emergency Services.
3. Where pre-planned stops, for example those required every two hours for tyre and spillage checks, are not in designated places, the vehicle shall stop only in areas sufficiently far away from the main traffic flow so as not to present a risk to other road users.
4. A vehicle that carries Dangerous Goods shall be under constant supervision while stopped or parked if one or both of the following applies:
   A. The Dangerous Goods carried have an exempt quantity of 10 kg or 10 L or less.
   B. Any one or more of the Transport Operation Provisions 14 to 20 applies.

   Constant supervision is the supervision of a vehicle transporting dangerous goods either by the vehicle driver or a qualified person in the employ of the operator, or the parking of the vehicle in a secure area authorised by the Operator.

OPERATIONAL REQUIREMENTS

OPERATIONAL REQUIREMENTS :
EN ROUTE PROCEDURES (cont.)

5. The opening of packages, unloading or decanting for any reason, for example for axle overloads, shall not be permitted, except in an authorised and properly equipped area under the supervision of a Qualified Person, and after the Operator has been informed.
6. In the event of a mechanical breakdown, regulatory warning triangles shall be placed on the road and the Operator shall be informed immediately.
7. In the event of an incident, the instructions on the transport emergency card(s) shall be followed and all necessary assistance shall be given to the Emergency Services. The transport emergency card(s) and the DGD(s) / WDGD(s) shall be handed over to the Emergency Services when so requested.
8. Good driving practice with anticipation of potential problem situations shall be exercised at all times.
PARTIES RESPONSIBILITIES:

CONSIGNEE

OPERATIONAL REQUIREMENTS

PARTIES RESPONSIBILITIES:

CONSIGNEE

A  The Consignee shall be responsible for the offloading of the Dangerous Goods

B  The Consignee shall provide the qualified person to carry out the offloading procedures

( unless otherwise agreed upon amongst the responsible parties )
14

PARTIES RESPONSIBILITIES:

QUALIFIED PERSON

INCLUDING: APPOINTMENT & TRAINING

QUALIFIED PERSON

RESPONSIBILITIES

SUPERVISION BY THE QUALIFIED / COMPETENT PERSONS

Supervision of the loading, transportation and offloading of dangerous goods should be in accordance with the relevant national legislation with specific reference to:

THE OCCUPATIONAL HEALTH & SAFETY ACT 85 OF 1993,
It’s amendments

SECTION 08: General duties of employers to their employees
SECTION 16: Chief executive officers charged with certain duties

A record of all appointees or assignees in terms of the above should be recorded and acceptance confirmed
WHO MUST BE APPOINTED AS A “QUALIFIED PERSON”

1. ALL PERSONS WHO MANAGE OR SUPERVISE THE STORAGE, MOVEMENT OR USE OF DANGEROUS GOODS

2. ALL PERSONS WHO PHYSICALLY HANDLE DANGEROUS GOODS
   (E.G.: Receive, Despatch, Pack, Pick, Load, Off Load, Use)

3. ALL PERSONS WHO AUTHORISE DANGEROUS GOODS VEHICLES TO ENTER OR LEAVE PREMISES
   (E.G.: Security Personnel or persons manning Entry or Exit Points to the premises)

4. ALL PERSONS PERFORMING ADMINISTRATIVE FUNCTIONS RELATING TO THE SUPPLY, MOVEMENT OF DANGEROUS GOODS
   (E.G.: Internal or External Sales, Order Clerks, Internal Client liaison)

THESE PERSONS WOULD BE APPOINTED BY:
Manufactures, Consignors, Operators (Transporters), Consignees, Importers or Exporters
(or their Agents) of Dangerous Goods

QUALIFIED PERSON’S RESPONSIBILITIES

A – LOADING & OFFLOADING
QUALIFIED PERSON
RESPONSIBILITIES

REQUIREMENTS THAT RELATE TO
LOADING AND OFF LOADING OPERATIONS :

A  The Qualified Person must be competent to Receive, Handle, Store, Distribute and any other task safely
   Safety training must be given to these Qualified Person’s as per the requirements of the Occupational Health & Safety Act 85 of 1993 & it’s amendments
   ( The use of the product Safety Data Sheet is used to assist with this training )

B  The loading and offloading operation shall be carried out by a Qualified Person in the relevant procedures

C  Safety standards are maintained in the offloading area as per the Occupational Health & Safety Act, 1993 ( Act 85 of 1993 )

D  Warehouse facilities, where applicable must comply to SANS 10263 : Warehousing of Dangerous Goods

QUALIFIED PERSON
RESPONSIBILITIES ( CONT. )

REQUIREMENTS THAT RELATE TO
LOADING AND OFF LOADING OPERATIONS :

E  The vehicle is correctly parked for loading or offloading

   WHEEL CHOCKS

   Are in place for heavy vehicles with a GVM equal to or greater than 3500 kg and are placed appropriately under wheels on non-steering axles
VEHICLE CHOCKS:
REQUIRED FOR ALL VEHICLES WITH A GROSS VEHICLE MASS EXCEEDING 3500 KG

QUALIFIED PERSON RESPONSIBILITIES (CONT.)

REQUIREMENTS THAT RELATE TO LOADING AND OFF LOADING OPERATIONS:

F Vehicle FIRE EXTINGUISHERS to be removed from the securing bracket and placed near the Driver

G The engine of the vehicle is switched off, except where the engine is required to drive pumps or hydraulic units for the purposes of loading or off loading

H The area is safe, with barricades where applicable, and the necessary warning signs are clearly displayed
QUALIFIED PERSON RESPONSIBILITIES

REQUIREMENTS THAT RELATE TO LOADING AND OFF LOADING OPERATIONS (cont.):

I. The requisite safety and first aid equipment in accordance with the transport emergency card(s) is provided, both on the vehicle and at the loading/offloading site.

J. Safety Showers, and/or Hose with running water as well as a Eye Rinse Bowl to be provided at the Loading & Offloading site.

K. Vehicles are to be equipped with First Aid Kits and at least a 2 litre bottle of fresh water.

First Aid Requirements in the Workplace
( Vehicle for Drivers ) as per the Occupational Health and Safety Act 85 of 1993

Bottle of water to assist with prompt removal of Foreign objects in the eye, not limited to chemicals, also including such items as dust, insects etc.

Basic First Aid Kit in Vehicles

BOTH THESE ITEMS ARE REFERENCED ON TRANSPORT EMERGENCY CARDS
QUALIFIED PERSON RESPONSIBILITIES (CONT.)

REQUIREMENTS THAT RELATE TO
LOADING AND OFF LOADING OPERATIONS: (Cont.)

L  The loading or off loading operation is conducted in a safe manner and is not placed at risk by other activities in the vicinity

M  The load is adequately secured

N  That at the offloading site the dangerous goods that correspond with the DGD / WDGD, can be off loaded in safe conditions, which all the necessary safety equipment is provided and that he / she consults with the Operator and the Consignor on appropriate action with regard to containers with leaks

QUALIFIED PERSON’S RESPONSIBILITIES

B – LOADING
QUALIFIED PERSON
RESPONSIBILITIES ( CONT. )

REQUIREMENTS THAT RELATE TO LOADING OPERATIONS :

The qualified person shall ensure that the following safety precautions are adhered to :

A  The goods to be loaded are correctly classified, packaged, labelled

B  The vehicle is suitable for its current purpose and is clean and fit to load

C  If the goods are different from those previously transported by the vehicle and are to be loaded and in the absence of a certificate of cleaning, or a gas-free certificate, the containment area is inspected by a competent person to ensure that it is fit to receive the goods without risk

D  The exempt quantity and compatibility requirements are adhered to

E  The correct quantity is loaded, and complies with the relevant national legislation

F  The cargo is undamaged and properly secured

G  The vehicle is not allowed to proceed on its journey without placards that reflect the correct information relevant to the goods

H  The driver has the correct transport emergency card(s) in their possession

I  The necessary DGD(s)/WDGD(s) are issued for the load and supplied to the driver

J  Special provisions P, B L, O as listed in SANS 10231:2010 Edition 3.1 are adhered to
QUALIFIED PERSON’S RESPONSIBILITIES

C – OFF LOADING

REQUIREMENTS THAT RELATE TO OFF LOADING OPERATIONS:

A The cargo is correct and undamaged and there is no obvious spillage

B The off loading operation does not proceed if, for any reason, the driver considers it unsafe

C In the case of bulk deliveries:
   1 There is sufficient space in the tanks or bins into which the cargo is to be unloaded and that they are in a fit condition to receive the load
   2 The flow can be stopped immediately in case of leakage or any other emergency
   3 After offloading, the vehicle is free from spillage and all valves are closed
QUALIFIED PERSON
RESPONSIBILITIES ( CONT. )

REQUIREMENTS THAT RELATE TO OFF LOADING OPERATIONS ( Cont.. ):

D  After off loading, the documents reflect the change in the load

E  After off loading no residue remains on the vehicle and that the vehicle is free of contamination

F  If after off loading the vehicle cannot be cleaned, the placards remain until cleaning of the vehicle is possible

QUALIFIED PERSON’S
RESPONSIBILITIES

D – GENERAL
QUALIFIED PERSON RESPONSIBILITIES (CONT.)

GENERAL:

A. The Packages are fit for subsequent handling and storage

B. The correct quantities as stated on the Invoice / Delivery document have been received

C. Goods may only be received and signed for by a “Qualified Person”

D. The signature of the Qualified Person on the Invoice / Delivery document confirms that the Receipt of the Classified Substances listed on the Invoice / Delivery document has been received in accordance with the National Road Traffic Act 93 of 1996, its amendment’s the Standard Specifications and the SANS Codes of Practice incorporated in the Act

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UN PACKAGING CERTIFICATION & HAZARD CLASS LABELLING ON CONTAINERS, PACKAGING INCLUDING OVER PACKS
PACKAGING PERFORMANCE TESTING

The tests performed to certify packaging containing Dangerous Goods:

1. Drop test
2. Leakproof test for packaging intended for liquids
3. Leakproof test for Aerosol Dispensers and Small Receptacles for Gas
4. Internal Pressure (Hydraulic) test
5. Stacking Test to at least 3 metres in height
6. Stacking Stability Test, after test 5, take a box from this test and place 2 new boxes on top of the previously tested box

UN EXAMPLES OF NEW PACKAGING MARKING

<table>
<thead>
<tr>
<th>Marking</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4XY1458982</td>
<td>Dangerous substances for packaging group 1 (solid or maximum gross mass 100 kg), and dangerous substances for packaging group 2 (solid or maximum gross mass 500 kg), manufactured in South Africa.</td>
</tr>
<tr>
<td>1A62132398</td>
<td>Dangerous substances for packaging group 3 (solid or maximum gross mass 500 kg), manufactured in South Africa.</td>
</tr>
<tr>
<td>1E2125170G</td>
<td>Non-dense liquids in a secondary container intended for packaging group 3 (solid or maximum gross mass 500 kg), manufactured in South Africa.</td>
</tr>
<tr>
<td>4XY0572010</td>
<td>Non-dense liquids in a secondary container intended for packaging group 3 (solid or maximum gross mass 500 kg), manufactured in South Africa.</td>
</tr>
<tr>
<td>4XY0572010</td>
<td>Non-dense liquids in a secondary container intended for packaging group 3 (solid or maximum gross mass 500 kg), manufactured in South Africa.</td>
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<td>4XY0572010</td>
<td>Non-dense liquids in a secondary container intended for packaging group 3 (solid or maximum gross mass 500 kg), manufactured in South Africa.</td>
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<td>4XY0572010</td>
<td>Non-dense liquids in a secondary container intended for packaging group 3 (solid or maximum gross mass 500 kg), manufactured in South Africa.</td>
</tr>
<tr>
<td>4XY0572010</td>
<td>Non-dense liquids in a secondary container intended for packaging group 3 (solid or maximum gross mass 500 kg), manufactured in South Africa.</td>
</tr>
<tr>
<td>50A/0581Z/CA</td>
<td>Dangerous substances for packaging group 3 (solid or maximum gross mass 500 kg), manufactured in South Africa.</td>
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<td>6100Q/3089/CA</td>
<td>Dangerous substances for packaging group 3 (solid or maximum gross mass 500 kg), manufactured in South Africa.</td>
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<tr>
<td>51N2113957A</td>
<td>Dangerous substances for packaging group 3 (solid or maximum gross mass 500 kg), manufactured in South Africa.</td>
</tr>
<tr>
<td>51N2113957A</td>
<td>Dangerous substances for packaging group 3 (solid or maximum gross mass 500 kg), manufactured in South Africa.</td>
</tr>
<tr>
<td>51N2113957A</td>
<td>Dangerous substances for packaging group 3 (solid or maximum gross mass 500 kg), manufactured in South Africa.</td>
</tr>
<tr>
<td>51N2113957A</td>
<td>Dangerous substances for packaging group 3 (solid or maximum gross mass 500 kg), manufactured in South Africa.</td>
</tr>
<tr>
<td>51N2113957A</td>
<td>Dangerous substances for packaging group 3 (solid or maximum gross mass 500 kg), manufactured in South Africa.</td>
</tr>
</tbody>
</table>
HOW TO READ
PACKAGING MARKING

HOW TO READ UN MARKINGS

<table>
<thead>
<tr>
<th>CHARACTER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of Package</td>
<td>1 : Drum</td>
</tr>
<tr>
<td>Material</td>
<td>2 : Reserved</td>
</tr>
<tr>
<td>Category</td>
<td>3 : Jerrycan 4 : Boxes</td>
</tr>
<tr>
<td>Packing Group</td>
<td>5 : Bag</td>
</tr>
<tr>
<td>Maximum Gross Mass</td>
<td>6 : Composite Packaging</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>A : Steel</td>
</tr>
<tr>
<td>Solids or Inner Packaging</td>
<td>B : Aluminium</td>
</tr>
<tr>
<td>Year of Manufacture</td>
<td>C : Natural Wood</td>
</tr>
<tr>
<td>Country Location</td>
<td>D : Plywood</td>
</tr>
<tr>
<td>Manufacturer Code</td>
<td>E : Plastic</td>
</tr>
<tr>
<td>Liquid Hazardous Materials</td>
<td>F : Reconstituted Wood</td>
</tr>
<tr>
<td></td>
<td>G : Fibreboard</td>
</tr>
<tr>
<td></td>
<td>H : Metal other than Steel Aluminium</td>
</tr>
<tr>
<td></td>
<td>I : Textile</td>
</tr>
<tr>
<td></td>
<td>J : Glass, Porcelain, Stoneware</td>
</tr>
</tbody>
</table>

UN MARKING GUIDE : LIQUIDS

PACKAGING MARKING GUIDE - LIQUIDS

It is important to select the correct package for materials that require UN-rated packaging. The marking applied to a UN Package indicates the type of package and the levels to which the packaging has been approved.

Below is an example of the sequence of numbers and letters that appear in a UN Marking and what they represent:

Liquid Hazardous Materials

Example of UN Marking for Liquid Hazardous Materials in Single or Composite Packaging

1 2 3 / 4 5 6 / A 7 8 / 9 10 11 / AA1234
UN MARKING GUIDE: SOLIDS

PACKAGING MARKING GUIDE – SOLIDS

It is important to select the correct package for materials that require UN Rated packaging.
The marking applied to a UN Package indicates the type of package and the levels to which the packaging has been approved.

Below is an example of the sequence of numbers and letters that appear in a UN Marking and what they represent:

Combination Packaging or Single Packaging for Solid Hazardous Materials
Example of UN Marking for Solid Hazardous Materials in single or composite packaging or combination packaging for all materials

| 4 | G | Y | 27.8 | S | 1D | ZA | AA1547 |

| Type of Package | Material | Packing Group | Maximum Gross Mass | Solid or Liquid | Year of Manufacture | Quality of Manufacture and Test Certification | Certified Test Code |

SIZES OF CLASS LABELS AND SUBSIDIARY RISK LABELS

<table>
<thead>
<tr>
<th>NET CONTENTS OF PACKAGING</th>
<th>MINIMUM SIZE OF LABEL IN MM</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 0.5</td>
<td>15 X 15</td>
</tr>
<tr>
<td>&gt;0.5 TO &lt; 5.0</td>
<td>20 X 20</td>
</tr>
<tr>
<td>&gt;5.0 TO &lt; 20.0</td>
<td>30 X 30</td>
</tr>
<tr>
<td>&gt;20</td>
<td>100 X 100</td>
</tr>
</tbody>
</table>

LITRES IN THE CASE OF A LIQUID OR GAS AND KILOGRAMS IN THE CASE OF A SOLID SUBSTANCE
SANS 10229 – 1
TRANSPORT HAZARD LABEL
(Main risk: Class 6, Sub Risk: Class 3, Marine Pollutant)

MAXIMUM GROSS WEIGHT: 135 KG’S
MAXIMUM NETT WEIGHT: 100 LITRES

Footnote: Information displayed in (red) is for training purposes only and does not appear on prescribed signage.

GLOBAL HARMONIZED SYSTEM (GHS) – SUBSTANCE HAZARD LABEL
(Main risk: Class 6, Sub Risk: Class 3, Marine Pollutant)

MAXIMUM GROSS WEIGHT: 135 KG’S
MAXIMUM NETT WEIGHT: 100 LITRES

Footnote: Information displayed in (blue) is for training purposes only and does not appear on prescribed signage.
EXAMPLE OF TRANSPORT HAZARD LABEL AND GLOBAL HARMONIZED LABEL

ADR TRANSPORT HAZARD LABEL SYSTEM

EXAMPLE OF GLOBAL HARMONIZED LABEL SYSTEM

GHS LABELLING

Label Explanation

Example of GHS Label on container
AEROSOL CONTAINERS
FOUND IN RETAIL STORES WITH THE
CORRECT LABELING

UN TRANSPORT LABELING
( SANS 10228 )

GLOBALLY HARMONIZED LABELING SYSTEM
( SANS 10234 )

EXAMPLE OF
COMPLIANT OUTER CARTON

1: Carton & Contents approved by Competent Authority

2: Correct UN Number displayed

3: Correct Hazard Class Diamond displayed
COMPLIANT GHS LABELLING

OVER PACKS
PACKAGING OVER PACKS

REFERENCE: SANS 10229-1:2010 – PACKAGING FOR ROAD & RAIL

DEFINITION:

Over pack is an enclosure used by a single consignor to contain one or more packages to form one unit for convenience of handling and stowage during transport.

Examples of over packs are a number of packages that are:

A. Placed or stacked on to a pallet and secured by strapping, shrink wrapping, stretch wrapping or other suitable means.

B. Placed in a protective outer package such as a box or crate.

PACKAGING OVER PACKS (Cont.)

REQUIREMENT: (SANS 10229-1: Clause 8.12)

1. An over pack shall be marked with the word “OVER PACK”, the proper shipping name, UN Number and Hazard Class Decal for each item of dangerous goods contained in the over pack, unless markings and labels representative of all dangerous goods in the over pack are visible.

2. Each package of dangerous goods contained in an over pack shall comply with all applicable provisions of SANS 10229-1. The “OVER PACK” marking is an indication of compliance with this requirement. The intended function of each package shall not be impaired by the over pack.

3. An over pack shall not contain dangerous goods that can interact dangerously in the event of leakage.

4. Each package must bear ORIENTATION markings and items placed in the over pack must be orientated as per these markings.

5. Total Gross weight of the Over pack is not to exceed 30 kg.
Example of Overpacks

Orientation Arrows

LABEL: “OVERPACK“

COMPLIANCE CHECK LIST

South African Legislated Requirements - Preparation of Outer Packaging and Overpacks

<table>
<thead>
<tr>
<th>SHIPMENT NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>PACKAGE, MARKING &amp; LABELING</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
</tbody>
</table>

(Copyright & Development : EC Logistics – DGC&T cc)
### SHIPPIING PAPERS

<table>
<thead>
<tr>
<th></th>
<th>Question</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Does the shipping paperwork have the correct descriptive information with UN ID, proper shipping name, hazard class and packing group that matches what is on the box?</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Does the shipping paper include the correct special approvals (EX Number, Special Permits, Competent Authority Approvals)?</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Does the shipping paper include the correct additional information including quantity, weight, container, emergency number, ERG number, and addresses?</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Is there a Dangerous Goods Declaration</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Is there a Transport Emergency Card for each Dangerous Goods Item</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Is the shipping paper signed and certified if required?</td>
<td></td>
</tr>
</tbody>
</table>

Checked by ___________________________ Date ___________________________

Note: Initials are acceptable for the checked by line if the person can be readily identified.

Time _____ (Time optional)

---

### 16

CLASS COMPATIBILITY : LOADS ON VEHICLES
CLASS COMPATIBILITY

TRANSPORTATION OF DANGEROUS GOODS:

National Road Traffic Act 93 of 1996 & it’s amendments:

REGULATION 278:

DANGEROUS GOODS TO BE COMPATIBLE

The Operator shall ensure that a Mixed Load of Dangerous Goods transported on a vehicle shall be compatible as prescribed in SANS 10231 – Annex F
LOAD CONSTRAINTS:

EXEMPT QUANTITY FOR A LOAD CONSISTING OF ITEMS WITH THE SAME UN NUMBER

If the total quantity loaded is less than the quantity (in kg’s or litres) given in SANS 10231 - Table C

In the EXEMPT QUANTITY column, the requirements of SANS 10231 do not apply
OPERATIONAL REQUIREMENTS

LOAD CONSTRAINTS:

EXEMPT QUANTITY FOR A MIXED LOAD

If no single item of dangerous goods in the load exceeds the quantity (in kilograms or litres, as appropriate) given in column 6 of Table C – SANS 10231, use the following equation to calculate each item of dangerous goods in the load

\[ A = Q \times F \]

- **A** is the result
- **Q** is the quantity of the dangerous goods being transported, in kilograms or litres
- **F** is the factor shown in column 7 of Table C – SANS 10231

If the sum of A for all the calculations does not exceed a numerical number of 1000, the requirements of SANS 10231 do not apply.

LOAD CONSTRAINTS CALCULATION

CALCULATION TO DETERMINE IF A MIXED LOAD IS EXEMPT OR NOT

IF THE RESULT OF THE CALCULATION EXCEEDS THE FACTOR (NUMBER) OF 1000:

FULL COMPLIANCE WITH CHAPTER VIII OF THE NATIONAL ROAD TRAFFIC ACT 93 OF 96 & IT’S AMENDMENTS ARE REQUIRED

NOTE: THE VARIOUS SUBSTANCES MUST BE COMPATIBLE WITH EACH OTHER AS PER THE CLASS COMPATIBILITY TABLE !!!!

EXTRACT FROM SANS 10231: ANNEX – C EXEMPT QUANTITIES

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UN NO</td>
<td>SUBSTANCE DESCRIPTION</td>
<td>HAZARD CLASS</td>
<td>PACKING GROUP</td>
<td>SUB. RISK</td>
<td>EXEMPT KG/LT</td>
</tr>
<tr>
<td>1823</td>
<td>SODIUM HYDROXIDE, SOLID</td>
<td>8B</td>
<td>II</td>
<td>50 KG</td>
<td></td>
<td>20</td>
</tr>
<tr>
<td>1993</td>
<td>BENZENE</td>
<td>3</td>
<td>II</td>
<td>500 LT</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>3105</td>
<td>ACETYLACETONE PEROXIDE</td>
<td>5.2</td>
<td></td>
<td>10 LT</td>
<td></td>
<td>100</td>
</tr>
</tbody>
</table>
### LOAD CONSTRAINTS CALCULATION (CONT.)

#### CALCULATION 1:

<table>
<thead>
<tr>
<th>UN NO</th>
<th>CHEMICAL NAME</th>
<th>CLASS</th>
<th>PG</th>
<th>EXEMPT</th>
<th>KG/LT</th>
<th>F</th>
<th>QTY OF LOAD</th>
<th>CALCULATION</th>
<th>RESULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1823</td>
<td>SODIUM HYDROXIDE</td>
<td>8B</td>
<td>II</td>
<td>50</td>
<td>20</td>
<td></td>
<td>20</td>
<td>20 X 20 = 400</td>
<td>NOT EXEMPT</td>
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<tr>
<td></td>
<td>BENZENE</td>
<td>3</td>
<td>II</td>
<td>500</td>
<td>100</td>
<td></td>
<td>100</td>
<td>100 X 6 = 600</td>
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</tr>
<tr>
<td></td>
<td>ACETYL ACETONE PEROXIDE</td>
<td>5.2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>TOTAL</td>
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<td></td>
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<td></td>
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#### CALCULATION 2:

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<th>PG</th>
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<th>KG/LT</th>
<th>F</th>
<th>QTY OF LOAD</th>
<th>CALCULATION</th>
<th>RESULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1823</td>
<td>SODIUM HYDROXIDE</td>
<td>8B</td>
<td>II</td>
<td>50</td>
<td>20</td>
<td></td>
<td>20</td>
<td>20 X 20 = 400</td>
<td>EXEMPT</td>
</tr>
<tr>
<td></td>
<td>BENZENE</td>
<td>3</td>
<td>II</td>
<td>500</td>
<td>100</td>
<td></td>
<td>100</td>
<td>100 X 5 = 500</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACETYL ACETONE PEROXIDE</td>
<td>5.2</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
<td>45</td>
<td>940</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

18

WAREHOUSE CLASS
COMPATIBILITY CHART
VEHICLE :

REGISTRATION

REGISTERING OF ALL ROAD VEHICLES
TRANSPORTING DANGEROUS GOODS

REGISTRATION OF ALL VEHICLES HAVE TO BE MADE AS FOLLOWS :

A LICENCE AND ROADWORTHY :
REGISTERED WITH YOUR LOCAL LICENCE OFFICE

B REGISTER WITH THE DEPARTMENT OF TRANSPORT AS A
VEHICLE PERMITTED TO TRANSPORT DANGEROUS GOODS :
REGISTERED WITH YOUR LOCAL LICENCE OFFICE

C REGISTER TO TRANSPORT FLAMMABLE AND OTHER
DANGEROUS GOODS :
REGISTERED WITH YOUR LOCAL EMERGENCY SERVICES
EXAMPLE OF LICENCE AND ROADWORTHY DISC

LICENCE AND ROADWORTHY CERTIFICATE
ISSUED TO ALL VEHICLES BY THE LOCAL LICENCE OFFICE

EXAMPLE OF OPERATOR CARDS:

A  GENERAL CARGO ONLY
B  GENERAL & DANGEROUS GOODS CARGO
C  DANGEROUS GOODS CARGO ONLY

Vehicle registered to transport General Cargo only
Vehicle registered to transport General and / or Dangerous Goods Cargo
Vehicle registered to transport Dangerous Goods Cargo Only

Obtainable from local municipal licensing office
Section 15 (3) of the Fire Brigade Services Act, 1987 (Act No. 99 of 1987) amended to include SANS 1157 - 2012: Transport of dangerous goods - Inspection requirements of road vehicles for the issue of municipal dangerous goods transport permits into the Fire Brigade Services Regulations.

VEHICLE:
DESIGN REQUIREMENTS:
CARGO CONTAINMENT FOR PACKAGED GOODS VEHICLES
1. The cargo containment area of the vehicle shall be suitably equipped for the transportation, stowage and containment of the type of packaged goods to be transported. Body sides at the rear and both sides of the vehicle shall be at least 600 mm high, or the stowage area for dangerous goods shall be in compliance with SANS 10187-8: Cargo securement on vehicles transporting Dangerous Goods

   NOTE: Body sides are only required if transporting gas cylinders or unsecured dangerous goods

2. The cab shall be separated from the cargo containment area by an effective bulkhead. A factory fitted rear windscreen may be used in the rear bulkhead of an LDV cab, but shall not be of the sliding type.

3. Such cargo containment areas shall not be provided with any seating for passengers.

END OF PART 1
MANAGEMENT & SUPERVISORY SEMINAR: EMERGENCY INFORMATION SYSTEMS

MODULES:

01 Modules
02 Introduction
03 Emergency Information Documents – Transport Emergency Card
04 Emergency Information Documents – Dangerous Goods Declaration & Waste Dangerous Goods Declaration
05 Spill Response Action and Spill Kits
06 Incident Report Form
07 E I S – (Emergency Information Systems) – General Placarding requirements for vehicles
08 E I S – Placard examples – Hazard Classes
09 E I S – Examples of Standard size Compliant and Non compliant placarding on Packaged Goods vehicles
10 E I S – Fuel Tanker placard requirements

MANAGEMENT & SUPERVISORY SEMINAR: EMERGENCY INFORMATION SYSTEMS

MODULES (Cont.):

11 E I S – Examples of Standard size Compliant Fuel Tanker placarding
12 E I S – Gas Tanker – Placard requirements
13 E I S – Examples of Standard size Compliant Gas Tanker placarding
14 E I S – Waste Placard requirements
15 E I S – Examples of Standard size Compliant and Non compliant Waste placarding
16 E I S – Examples of Reduced size Compliant and Non compliant placarding on Packaged Goods vehicles
17 E I S – Warning Diamond – General requirements
18 E I S – Standard size Warning Diamond requirement and examples of Compliant and Non compliant Warning Diamonds
19 E I S – Reduced size Warning Diamond requirement and examples of Compliant Warning Diamonds
20 E I S – Definition of a Designated Space / Document Holder
MANAGEMENT & SUPERVISORY SEMINAR : EMERGENCY INFORMATION SYSTEMS

MODULES ( Cont. ) :

21  E I S – Documents to be stored in the Designated Space
22  E I S – Examples of Compliant and Non compliant Designated Space / Document Holder
23  E I S – Elevated Temperature Warning Triangle
24  E I S – Examples of Compliant and Non compliant IMDG Split Placarding
25  Battery Power Isolating switches
26  Fire Extinguisher requirements
27  Examples of Compliant and Non compliant Fire Extinguisher placement on vehicles

02
INTRODUCTION
EMERGENCY INFORMATION SYSTEMS

INTRODUCTION

- SANS 10232 covers requirements for emergency information systems, such as requirements for hazard class diamonds, placards and emergency information documents.

The emergency information system as documented in SANS 10232 is intended to assist emergency services response teams in the mitigation of an incident that involves Dangerous Goods.

03 EMERGENCY INFORMATION DOCUMENTS:

TRANSPORT EMERGENCY CARD
EMERGENCY INFORMATION SYSTEMS

EMERGENCY INFORMATION DOCUMENTS

TRANSPORT EMERGENCY CARD

1. Transport emergency card(s) are 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 shall have a transport emergency card for each dangerous goods item in the load.

2. The transport emergency card(s) shall be stored in the designated space.

3. The transport emergency card shall comply with SANS 10232 - 4.

TRANSPORT EMERGENCY CARDS

SANS 10232-4

SANS 10232-4: 2012 Edition 1.2

Has been replaced with:

SANS 10232-4:2015 Edition 1.3

CEFIC TREMCARD AND TREC CARD:

Have been removed from Legislation and replaced with the TRANSPORT EMERGENCY CARD

Which has updated content and creation requirements

ALL TREMCARDS AND TREC CARDS HAVE TO BE REPLACED NO LATER THAN 1 JANUARY 2016 with the TRANSPORT EMERGENCY CARD.
EXAMPLE OF REVISED DOCUMENT CALLED:

TRANSPORT EMERGENCY CARD

SECTIONS

01  TOP RIGHT HAND CORNER:
    UN NUMBER
    HAZARD CLASS
    SUBSIDIARY RISK
    PACKING GROUP
    ERG NUMBER

02  PROPER SHIPPING NAME

03  APPEARANCE

04  DANGER
<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>05</td>
<td>PERSONAL PROTECTIVE EQUIPMENT</td>
</tr>
<tr>
<td>06</td>
<td>EMERGENCY RESPONSE EQUIPMENT</td>
</tr>
<tr>
<td>07</td>
<td>DRIVER FIRST ACTIONS</td>
</tr>
<tr>
<td>08</td>
<td>DRIVER SPECIAL / ADDITIONAL ACTIONS</td>
</tr>
<tr>
<td>09</td>
<td>DRIVER ACTIONS IN CASE OF FIRE</td>
</tr>
<tr>
<td>10</td>
<td>FIRST AID</td>
</tr>
<tr>
<td>11</td>
<td>SPECIAL ACTION FOR EMERGENCY RESPONDERS</td>
</tr>
<tr>
<td>12</td>
<td>ADDITIONAL INFORMATION : CONTACT REFERENCE</td>
</tr>
<tr>
<td></td>
<td>EMERGENCY TELEPHONE NUMBER</td>
</tr>
<tr>
<td></td>
<td>NAME OF EMERGENCY CONTACT PERSON</td>
</tr>
<tr>
<td>13</td>
<td>PREPARED BY</td>
</tr>
<tr>
<td>14</td>
<td>PREPARATION DATE</td>
</tr>
<tr>
<td>15</td>
<td>EXPIRY DATE</td>
</tr>
</tbody>
</table>
EMERGENCY INFORMATION SYSTEMS

EMERGENCY INFORMATION DOCUMENTS

CEFIC TRANSPORT EMERGENCY CARD

SECTIONS ( CONT )

16  REFERENCE DETAILS
17  NOTES

EXAMPLE OF THE TRANSPORT EMERGENCY CARD
LEGALLY CREATED TRANSPORT EMERGENCY CARD (SECTION 1)

KEROSENE also known as Paraffin

LEGALLY CREATED TRANSPORT EMERGENCY CARD (SECTION 2)

KEROSENE also known as Paraffin
04

EMERGENCY INFORMATION DOCUMENTS:

DANGEROUS GOODS DECLARATION

&

WASTE DANGEROUS GOODS DECLARATION
DANGEROUS GOODS DECLARATION

( Part 1 )

DANGEROUS GOODS DECLARATION

Consignment Note No. / Delivery Note No. / Waybill No. / Invoice No. :
Delivery Note : NB 34595

CONSIGNOR:
Andy's Chemical Warehouse
59 Peter Road
Barmera, Gairdner
Telephone : 081 783 2110

PRODUCT MANUFACTURER:
P & W Chemicals ( Pty ) Ltd
43 Jones Street, Brookton, Gairdner
Telephone : 081 436 5150

PRODUCT OWNER:
Andy's Chemical Warehouse
59 Peter Road
Barmera, Gairdner
Telephone : 081 783 2110

PRODUCT CUSTODIAN:
Scorpion Transport
87 Hill Street, Jet Park, Gairdner
Telephone : 081 110 3345

PARTY CONTRACTING THE OPERATOR:
Andy's Chemical Warehouse
59 Peter Road
Barmera, Gairdner
Telephone : 081 783 2110

OPERATOR:
Scorpion Transport
87 Hill Street, Jet Park, Gairdner
Telephone : 081 110 3345
Vehicle Reg. No. : YHR 402 GP

CONSIGNEE:
High Street Hardware
23 High Street, Alberton, Gairdner
Telephone : 081 465 9307

Additional information on handling / transport / storage:
Store Alcohol Based Products out of direct sunshine and do not store together with Oxidising Substances

DANGEROUS GOODS DECLARATION

( Part 2 )

<table>
<thead>
<tr>
<th>SHIPPING NAME</th>
<th>UN NO.</th>
<th>HAZ CLS.</th>
<th>PO</th>
<th>Qty &amp; Type of packaging</th>
<th>Volume</th>
<th>Net Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>1170</td>
<td>3</td>
<td>B</td>
<td>4 x Plastic Containers</td>
<td>120 Kg</td>
<td>100 litres</td>
</tr>
<tr>
<td>White Spirits</td>
<td>1170</td>
<td>3</td>
<td>B</td>
<td>2 Fibreboard Boxes, 4 x 5L, in each</td>
<td>50 Kg</td>
<td>40 litres</td>
</tr>
</tbody>
</table>

DECLARATIONS

I hereby declare that the content of this consignment is fully and accurately described above by the proper shipping name and is classified, packaged, marked and labeled/package and in all respects in proper condition for transport in accordance with the relevant national legislation.

Where the consignor is not the manufacturer, the declaration is based on information received.

Consignor: Product manufacturer / Product owner / Product custodian / Party that contracts the operator / A
Signed: J Smith
Date: 24 September 2010

"The consignment described above has been received into my vehicle. My vehicle is correctly placarded and I am in possession of all necessary transport documentation pertaining to the transport of dangerous goods, including information to be followed in case of an emergency."

Driver: John Dini
Signed: John Dini
Date: 24 September 2010

( TO BE COMPLETED IN TRIPlicate: 1 Consignor, 1 Operator, 1 Consignee )
*** TO BE KEPT ON FILE FOR A MINIMUM OF 90 DAYS AFTER DELIVERY BY THE CONSIGNOR, THE OPERATOR & CONSIGNEE TO KEEP ON FILE FOR AS LONG AS THEY DEEM NECESSARY ***
## WASTE DANGEROUS GOODS DECLARATION

**Top half of page 1**

<table>
<thead>
<tr>
<th>CONSIGNOR / WASTE GENERATOR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Consignor / Waste Generator:</strong></td>
</tr>
<tr>
<td>J Thomas</td>
</tr>
<tr>
<td><strong>Physical Address:</strong></td>
</tr>
<tr>
<td>194 Long Street</td>
</tr>
<tr>
<td>Klerksdorp</td>
</tr>
<tr>
<td><strong>Telephone:</strong></td>
</tr>
<tr>
<td><strong>Postal Address:</strong></td>
</tr>
<tr>
<td>Klerksdorp</td>
</tr>
<tr>
<td><strong>Emergency Phone Number:</strong></td>
</tr>
<tr>
<td><strong>Email:</strong></td>
</tr>
<tr>
<td><strong>Fax:</strong></td>
</tr>
<tr>
<td><strong>SAWRS Registration Number:</strong></td>
</tr>
</tbody>
</table>

| Origin / Source of waste (Process / Activity): | Product spillage during mixing |
| Classification of the waste: | Flammable Liquid: Category 2 |
| | STOT SE: Category 3 |
| | Acute Toxicity Inhalation: Category 4 |
| | Acute Toxicity Dermal: Category 4 |
| | Skin Irritant: Category 2 |
| | Eye Irritant: Category 2 |
| | Respiratory Sensitizer: Category 1 |
| | Skin Sensitizer: Category 1 |

| Quantity (m³): | 0.05 |

| Site where waste was generated: | ABC Plant Co |
| 194 Long Street | Industrial Site |
| Klerksdorp | 2570 |  |
| **Date of Collection:** | 11 June 2014 |
| **SOS Available:** | YES / NO |

---

## WASTE DANGEROUS GOODS DECLARATION

**Bottom half of page 1**

<table>
<thead>
<tr>
<th>DECLARATION OF CONSIGNOR / WASTE GENERATOR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Signed:</strong> J Thomas</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OPERATOR / WASTE TRANSPORTER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operator:</strong> P James</td>
</tr>
<tr>
<td><strong>Waste Collector:</strong></td>
</tr>
<tr>
<td>461 North Road</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DECLARATION OF OPERATOR / WASTE TRANSPORTER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Signed:</strong> P James</td>
</tr>
</tbody>
</table>

( © Copyright & Development of this presentation : DGR Compliance Solutions (Pty) Ltd )
**WASTE DANGEROUS GOODS DECLARATION**

---

### DECLARATION OF CONSIGNEE / WASTE MANAGER

<table>
<thead>
<tr>
<th>Details of Waste Received by Consignee / Waste Manager:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey liquid solvent mixture</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of Waste Management Applied:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reuse / Recycling / Recovery / Treatment / Disposal</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reporting description and code in terms of National Waste Information Regulations:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inorganic waste – Liquid : HW 99 - 90</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Details of waste diverted:</th>
</tr>
</thead>
<tbody>
<tr>
<td>None diverted</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Details of Diverting Facility ( where applicable ):</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Discrepancies in information:</th>
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</thead>
<tbody>
<tr>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Quantity ( m³) or Ton:</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.05 = 50 kg</td>
</tr>
</tbody>
</table>

---

### DEPARTMENT OF TRANSPORT / LAND TRANSPORT ACT

<table>
<thead>
<tr>
<th>Proper Shipping Name:</th>
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<tbody>
<tr>
<td>1263</td>
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</table>

<table>
<thead>
<tr>
<th>UN Number:</th>
</tr>
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<tbody>
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<td>3</td>
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</table>

<table>
<thead>
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<th>Hazard Class:</th>
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<table>
<thead>
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<th>Packing Group:</th>
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<tr>
<td>III</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Quantity and type of Packaging:</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 KG</td>
</tr>
</tbody>
</table>

| Metal Drum |

---

**Copies of the waste dangerous goods declaration shall be retained by the consignor, consignee and the operator for a minimum of 5 years after the date of shipment.**
05

SPILL RESPONSE ACTION

&

SPILL KITS:

ACTION TO BE TAKEN WHEN A SPILL OCCURS

1. **ASSESS THE RISK**
   - From the moment a spill occurs and throughout the response, determine risks that may affect human health, the environment and property.
   - **ALWAYS put SAFETY FIRST**
   - If possible, identify the spilled material and determine how much was spilled

2. **SELECT PERSONAL PROTECTIVE EQUIPMENT**
   - Choose the appropriate PPE to safely respond to the spill. Consult Material Safety Data Sheets or Tremcard for the best recommendations. If you’re uncertain of the danger and the spilled material is unknown, assume the worst and use the highest level of protection

3. **CONFINE THE SPILL**
   - **SPEED COUNTS!!** Limit the spill area by blocking, diverting or confining the spill. Use contained absorbents such as socks and booms as found in our spill kits. **STOP** the flow of the liquid before it has a chance to contaminate a water source. Spill kits are designed to facilitate a quick, effective response
ACTION TO BE TAKEN WHEN A SPILL OCCURS (Cont..)

4 STOP THE SOURCE
After the spill is confined, stop the source of the spill. This may simply involve turning a container upright, or plugging a leak from a damaged drum or container. Transfer liquids from a damaged container to a new one if possible.

5 EVALUATE THE INCIDENT AND IMPLEMENT CLEAN-UP
Once the spill is confined and the leak has been stopped, it is time to reassess the incident and develop a plan of action for implementing the spill clean up. Spills are commonly absorbed. Mat Pads are commonly used to absorb the remainder of the spill. Simply place the Mat Pads throughout the spill area. Unused absorbents are not hazardous. However, once the absorbents are saturated with the spilled liquid they may be considered hazardous waste and should be disposed of properly.

FOR SMALL SPILLS AND LEAKING CONTAINERS, PLACE THE SPILLED SUBSTANCE OR LEAKING CONTAINER INTO A SUITABLY STRONG TRANSPARENT PLASTIC BAG AND SEAL WITH A DEVICE. E.G.: CABLE TIE

ACTION TO BE TAKEN WHEN A SPILL OCCURS (Cont..)

6 DECONTAMINATE
Decontaminate the site, personnel and equipment by removing or neutralizing the hazardous materials that have accumulated during the spill. This may involve removing and disposing of contaminated media such as soil that was exposed during the spill incident. An effective decontamination area ensures the health and safety of emergency responders.

7 COMPLETE REQUIRED REPORTS
Complete Incident Report form and any other documents required by local and government legislation. Failure to do this may result in a fine and/or possible criminal conviction.
# INCIDENT REPORT FORM

## INCIDENT REPORT - Part a

An incident involving the transport of dangerous goods by road or at any road-side loading and storage facilities shall be reported in the following format:

### DETAILS OF INCIDENT

<table>
<thead>
<tr>
<th>Name of company</th>
<th>Date of incident</th>
<th>Time of incident</th>
<th>Location of incident</th>
<th>Brief description</th>
<th>Cause</th>
<th>Weather conditions</th>
<th>Vehicle registration numbers</th>
</tr>
</thead>
</table>

### DANGEROUS GOODS INVOLVED IN THE INCIDENT

<table>
<thead>
<tr>
<th>UN NUMBER</th>
<th>CLASS</th>
<th>PACKING GROUP</th>
<th>DESCRIPTION</th>
<th>QTY OF PRODUCT LOSS (KG or L)</th>
<th>CONTAINMENT TYPE (Refer to 1 below)</th>
<th>CONTAINMENT FAILURE REASON (Refer to 2 below)</th>
<th>CONTAINMENT MATERIAL</th>
</tr>
</thead>
</table>

1. **Containment type**
   - 1 = Packaging
   - 2 = Large Packaging
   - 3 = IBC
   - 4 = Tank container

2. **Containment failure reason**
   - 1 = Explosion
   - 2 = Fire
   - 3 = Structural failure
   - 4 = Equipment failure

- 5 = Portable Tank
- 6 = MEGC
- 7 = Demountable Tank
- 8 = Battery vehicle
- 9 = Small container
- 10 = Large Container
- 11 = Fixed Tank vehicle
## INCIDENT REPORT - Part b

### GENERAL PLACARDING REQUIREMENTS FOR VEHICLES

### CONSEQUENCE OF INCIDENT

<table>
<thead>
<tr>
<th>Consequence</th>
<th>Fatalities</th>
<th>Injuries</th>
<th>Material / Environmental damage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NO</td>
<td>YES</td>
<td>Level of damage</td>
</tr>
<tr>
<td>Description of loss</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Involvement of authorities</th>
<th>Authorities contacted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action taken by authorities (e.g. evacuation, road closure)</td>
<td></td>
</tr>
</tbody>
</table>

### DOCUMENTATION AND PLACARDING COMPLIANCE – AS FOUND

- Dangerous Goods Declaration completed correctly (Yes or No)
- Correct emergency response documentation in vehicle (Yes or No)
- Was the correct information obtained from the Specialist advice no? (Yes or No)

### QUALIFIED PERSON

- Name of Qualified Person
- Signature of Qualified Person

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EMERGENCY INFORMATION SYSTEMS
EMERGENCY INFORMATION SYSTEMS

SANS 10232.1 - PLACARDING OF VEHICLES

CLAUSE 4.1.2

THE FULL PLACARD, INCLUDING THE 10 MM BLACK BORDER SHALL BE CLEARLY VISIBLE FROM THE ROADSIDE, WHETHER DIRECTLY FIXED ON THE VEHICLE, OR SUPPORTED BY MEANS OF A PERMANENTLY FIXED FRAME.

THE PLACARDS SHALL BE CLEAN, LEGIBLE AND NOT DEFACED AT ALL TIMES

SANS 1157 – INSPECTION REQUIREMENTS OF ROAD VEHICLES

THE ABOVE CLAUSE REQUIREMENT IS TO BE VERIFIED BY THE MUNICIPAL FIRE BRIGADE SERVICES FOR THE ISSUE OF ANNUAL MUNICIPAL DANGEROUS GOODS TRANSPORT PERMITS IN TERMS OF MUNICIPAL BY-LAWS AND THE FIRE BRIGADE SERVICES ACT & REGULATIONS

REFERENCE: TABLE 1: A – 1.12, C – 1.14, D – 1.10, E – 1.8

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EMERGENCY INFORMATION SYSTEMS
PLACARDING EXAMPLES
&
SIZES:

MIXED LOADS MULTI CLASS,
MIXED LOAD SAME CLASS,
SUB RISKS,
WASTE
EMERGENCY INFORMATION SYSTEMS

REQUIREMENTS FOR PLACARDING

REDUCED SIZE PLACARD

(VEHICLES WITH A GROSS VEHICLE MASS OF LESS THAN 3500 KG)

LEGEND:

1: Goods identification zone

2: Operator telephonic advice zone
   (Landline & Mobile or Call Centre No to ensure a 24/7 answering service)

3: Specialist telephonic advice zone
   (Landline & Mobile or Call Centre No to ensure a 24/7 answering service)

4: Hazard class diamond zone

5: Position of Hazard class diamond or Mixed Load Diamond

EMERGENCY INFORMATION SYSTEMS

REQUIREMENTS FOR PLACARDING

STANDARD SIZE PLACARD

(VEHICLES WITH A GROSS VEHICLE MASS OF MORE THAN 3500 KG)

LEGEND:

1: Goods identification zone

2: Operator telephonic advice zone
   (Landline & Mobile or Call Centre No to ensure a 24/7 answering service)

3: Specialist telephonic advice zone
   (Landline & Mobile or Call Centre No to ensure a 24/7 answering service)

4: Hazard class diamond zone

5: Position of Hazard class diamond or Mixed Load Diamond

6: Position of subsidiary risk diamond (s)
EXAMPLES OF HAZARD CLASS PLACARDING:

MIXED LOAD

PLACARD FOR A VEHICLE TRANSPORTING MORE THAN 1 DANGEROUS GOODS SUBSTANCE WITH DIFFERENT E. R. G.

SINGLE SUBSTANCE

PLACARD FOR A VEHICLE TRANSPORTING MORE THAN 1 DANGEROUS GOODS SUBSTANCE WITH DIFFERENT E. R. G.

SINGLE SUBSTANCE & SUBSIDIARY RISK

PLACARD FOR A VEHICLE TRANSPORTING MORE THAN 1 DANGEROUS GOODS SUBSTANCE WITHIN THE SAME HAZARD CLASS & E. R. G.

ARSENIC

ACETIC ACID SOLUTION
EXAMPLES OF HAZARD CLASS PLACARDING:

WASTE SUBSTANCE
VEHICLE TRANSPORTING DANGEROUS GOODS WASTE, INDICATING THE MOST HAZARDOUS SUBSTANCE IN THE MIXTURE.

WASTE 1350
011 789 1234
082 675 9876
0800 123 456
011 485 9845

DANGEROUS WHEN WET

WASTE SULPHUR

PLACARDING
Must be displayed on:
Left side, Right side & Rear
of Rigid Vehicle, Horse & ALL Trailers

( NOTE: THE FULL PLACARD INCLUDING IT’S 10 MM BLACK BORDER SHALL BE FULLY VISIBLE WHEN BEING DISPLAYED !!!! )
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EMERGENCY INFORMATION SYSTEMS

VEHICLES : GVM OF MORE THAN 3500 KG

EXAMPLES OF COMPLIANT & NON COMPLIANT PLACARDING ON PACKAGED GOODS VEHICLES

EMERGENCY INFORMATION SYSTEMS FOR DANGEROUS GOODS PACKAGE VEHICLES :
GVM more than 3500 kg’s

REAR VIEW : STANDARD SIZE PLACARD FITTED INSIDE A HOLDING FRAME & NO SMOKING / NO NAKED FLAME DECALS , INCLUDING FIRE EXTINGUISHER ( PLACARD VISIBLE INDICATING DANGEROUS GOODS ON BOARD )
EMERGENCY INFORMATION SYSTEMS FOR DANGEROUS GOODS PACKAGE VEHICLES:
GVM more than 3500 kg’s

FRONT & SIDE, REAR & SIDE VIEW OF STANDARD SIZE PLACARDING & WARNING DIAMOND INSIDE A HOLDING FRAME INDICATING DANGEROUS GOODS ON BOARD

STANDARD SIZE PLACARD FITTED INSIDE A SECURING FRAME & NO SMOKING / NO NAKED FLAME DECALS
( PLACARD REVERSED INDICATING NO DANGEROUS GOODS ON BOARD )
EMERGENCY INFORMATION SYSTEMS FOR DANGEROUS GOODS PACKAGE VEHICLES:
GVM more than 3500 kg’s

REAR & SIDE VIEW OF STANDARD SIZE PLACARD FITTED INSIDE A SECURING FRAME & NO SMOKING / NO NAKED FLAME DECALS
(PLACARD REVERSED INDICATING NO DANGEROUS GOODS ON BOARD)

Compliant vs Non compliant PLACARDING
Non compliant PLACARDING

Non compliant PLACARDING
Non compliant PLACARDING

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EMERGENCY INFORMATION SYSTEMS

REQUIREMENTS FOR PLACARDING OF BULK FUEL TANKERS
EMERGENCY INFORMATION SYSTEMS

PLACARDING OF PETROLEUM TANKERS

TRANSPORT OF PETROLEUM-BASED PRODUCTS:

The following petroleum-based products:

- Diesel (UN1202)
- Petrol (UN1203)
- Kerosene (UN1223)
- Aviation fuel (UN1863)

May be placarded with the generic UN Number 1203, either singly or as a Mixed Load

Note:
It is recommended that a tank vehicle, which is dedicated to any of these products, uses the appropriate UN Number for the product on the placard.

When transporting petroleum-based products, the transport emergency card(s) shall reflect the ACTUAL substance(s) on the vehicle.

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EMERGENCY INFORMATION SYSTEMS

VEHICLES: GVM OF MORE THAN 3500 KG

EXAMPLES OF COMPLIANT PLACARDING ON FUEL TANKERS
EMERGENCY INFORMATION SYSTEMS FOR
DANGEROUS GOODS FUEL TANKER VEHICLES :
GVM more than 3500 kg’s

NOTE : PLACARDS TO REMAIN ON THE TANKERS UNTIL THEY HAVE BEEN
PURGED - ( CLEANED ) !!!!!!!!

FRONT & SIDE VIEW OF COMPLIANT FUEL TANKER

EMERGENCY INFORMATION SYSTEMS FOR
DANGEROUS GOODS FUEL TANKER VEHICLES :
GVM more than 3500 kg’s

NOTE : PLACARDS TO REMAIN ON THE TANKERS UNTIL THEY HAVE BEEN
PURGED - ( CLEANED ) !!!!!!!!

SIDE & REAR VIEW OF COMPLIANT FUEL TANKER
TRANSPORT OF GASES:
When transporting a single gas, the relevant placard and transport emergency card shall apply.

Mixed loads of gases may be transported under the following 5 group transport emergency cards:

1. Compressed gases, oxidizing
2. Compressed gases, toxic
3. Compressed gases, flammable
4. Compressed gases (except Compressed Air), asphyxiant
5. Liquefied gas, flammable
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EMERGENCY INFORMATION SYSTEMS

VEHICLES: GVM OF MORE THAN 3500 KG

EXAMPLES OF COMPLIANT PLACARDING ON GAS TANKERS

EMERGENCY INFORMATION SYSTEMS FOR DANGEROUS GOODS GAS TANKER VEHICLES:
GVM more than 3500 kg’s

NOTE: PLACARDS TO REMAIN ON THE TANKERS UNTIL THEY HAVE BEEN PURGED (CLEANED) !!!!!!!!

COMPLIANT CLOSE UP AND REAR VIEW OF STANDARD SIZE PLACARD
EMERGENCY INFORMATION SYSTEMS FOR DANGEROUS GOODS GAS TANKER VEHICLES:
GVM more than 3500 kg’s

NOTE: PLACARDS TO REMAIN ON THE TANKERS UNTIL THEY HAVE BEEN PURGED (CLEANED)!!!!!!!
DANGEROUS GOODS WASTE PLACARDING

TRANSPORT OF WASTE PRODUCTS:

Vehicles that transport waste products classified as dangerous goods shall comply with the general placard requirements.

The word “WASTE” shall be added above the UN Number in the goods identification zone of the dangerous goods placard.

EXAMPLES OF COMPLIANT & NON COMPLIANT PLACARDING ON VEHICLES TRANSPORTING WASTE
EMERGENCY INFORMATION SYSTEMS FOR DANGEROUS GOODS VEHICLES TRANSPORTING WASTE
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EMERGENCY INFORMATION SYSTEMS

VEHICLES: GVM OF LESS THAN 3500 KG

EXAMPLES OF COMPLIANT & NON COMPLIANT PLACARDING ON VEHICLES

EMERGENCY INFORMATION SYSTEMS FOR DANGEROUS GOODS VEHICLE:
GVM less than 3500 kg’s
SINGLE SUBSTANCE ON BOARD
EMERGENCY INFORMATION SYSTEMS FOR DANGEROUS GOODS VEHICLE

SYMBOLIC SAFETY SIGNAGE

NO SMOKING & NO NAKED FLAME (MOBILE PHONE OPTIONAL) SIGNS MUST BE DISPLAYED ON BOTH LEFT & RIGHT SIDE AS WELL AS THE REAR OF THE VEHICLE IN CLOSE PROXIMITY TO THE PLACARD, THESE SIGNS DON'T HAVE TO BE REVERSED WHEN THE VEHICLE IS NOT TRANSPORTING DANGEROUS GOODS

EMERGENCY INFORMATION SYSTEMS FOR DANGEROUS GOODS VEHICLE:

GVM less than 3500 kg’s

MIXED LOAD OF SUBSTANCES ON BOARD

SIDE VIEW
EMERGENCY INFORMATION SYSTEMS FOR DANGEROUS GOODS VEHICLE:
GVM less than 3500 kg’s
MIXED LOAD OF SUBSTANCES ON BOARD

REAR VIEW

EMERGENCY INFORMATION SYSTEMS FOR DANGEROUS GOODS VEHICLE:
GVM less than 3500 kg’s
MIXED LOAD OF SUBSTANCES ON BOARD

SIDE & REAR VIEW
EMERGENCY INFORMATION SYSTEMS FOR DANGEROUS GOODS VEHICLE:
GVM less than 3500 kg’s
SYMBOLIC SIGNAGE & NO DANGEROUS GOODS ON BOARD INDICATED BY REVERSING THE PLACARD

NOTE:
NO SMOKING & NO NAKED FLAME (MOBILE PHONE OPTIONAL) SIGNS MUST BE DISPLAYED ON BOTH LEFT & RIGHT SIDE AS WELL AS THE REAR OF THE VEHICLE IN CLOSE PROXIMITY TO THE PLACARD. THESE SIGNS DON’T HAVE TO BE REVERSED WHEN THE VEHICLE IS NOT TRANSPORTING DANGEROUS GOODS

EMERGENCY INFORMATION SYSTEMS FOR DANGEROUS GOODS VEHICLE:
GVM less than 3500 kg’s
NO DANGEROUS GOODS SUBSTANCES ON BOARD

SIDE VIEW
EMERGENCY INFORMATION SYSTEMS FOR DANGEROUS GOODS VEHICLE:
GVM less than 3500 kg’s
NO DANGEROUS GOODS SUBSTANCES ON BOARD

REAR VIEW

SIDE & REAR VIEW
EMERGENCY INFORMATION SYSTEMS FOR DANGEROUS GOODS VEHICLE:
GVM less than 3500 kg’s
NON COMPLIANT VEHICLE PLACARDING

STICK ON PLACARD, ALSO INCORRECT FORMATTED PLACARD

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EMERGENCY INFORMATION SYSTEMS

WARNING DIAMONDS
GENERAL REQUIREMENTS
WARNING DIAMONDS

Must be displayed on the front bumper of a rigid vehicle cab or front of a mechanical horse

The colour of the diamond shall be orange

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EMERGENCY INFORMATION SYSTEMS

VEHICLES: GVM OF MORE THAN 3500 KG

EXAMPLES OF COMPLIANT & NON COMPLIANT WARNING DIAMONDS ON VEHICLES
STANDARD SIZE WARNING DIAMONDS

Danger Warning Diamond shall be a square with each side of a visible length of 250 mm, set with one of its diagonals vertically.

EMERGENCY INFORMATION SYSTEMS FOR PACKAGED DANGEROUS GOODS VEHICLES:
GVM more than 3500 kg’s
STANDARD SIZE WARNING DIAMOND

ORANGE WARNING DIAMOND & HOLDING FRAME: DISPLAYED WHEN DANGEROUS GOODS ON BOARD, REVERSED WHEN VEHICLE IS EMPTY
EMERGENCY INFORMATION SYSTEMS FOR PACKAGED DANGEROUS GOODS VEHICLES:
GVM more than 3500 kg’s

STANDARD SIZE WARNING DIAMOND

SHOULD BE A PLAIN ORANGE DIAMOND

EMERGENCY INFORMATION SYSTEMS FOR HORSE’S
STANDARD SIZE WARNING DIAMOND
EMERGENCY INFORMATION SYSTEMS FOR HORSE’S
STANDARD SIZE WARNING DIAMOND

NOTE: WARNING DIAMOND TO REMAIN ON THE HORSE IF COUPLED TO TANKERS UNTIL THEY HAVE BEEN PURGED (CLEANED) !!!!!!!!
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EMERGENCY INFORMATION SYSTEMS

VEHICLES : GVM OF LESS THAN 3500 KG

EXAMPLES OF COMPLIANT WARNING DIAMONDS ON VEHICLES

REduced SIZE WARNING DIAMONDS

Danger Warning Diamond shall be a square with each side of a visible length of 100 mm, set with one of its diagonals vertically.
EMERGENCY INFORMATION SYSTEMS FOR PACKAGED DANGEROUS GOODS VEHICLES:
GVM more than 3500 kg’s
REDUCED SIZE WARNING DIAMOND

ORANGE WARNING DIAMOND & HOLDING FRAME, DIAMOND DISPLAYED WHEN DANGEROUS GOODS ARE ON BOARD
ORANGE WARNING DIAMOND & HOLDING FRAME, DIAMOND REVERSED WHEN NO DANGEROUS GOODS ARE ON BOARD

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EMERGENCY INFORMATION SYSTEMS

DEFINITION OF THE DESIGNATED SPACE / DOCUMENT HOLDER
EMERGENCY INFORMATION SYSTEMS

DEFINITION OF A DESIGNATED SPACE:

A container, of the colour **ORANGE** and marked with the word “DOCUMENTS” in **BLACK**, that is permanently fixed in a clearly visible space near the centre of the cab so as to be easily reachable from either front door or through a broken front window.

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EMERGENCY INFORMATION SYSTEMS

DOCUMENTS TO BE STORED IN THE DESIGNATED SPACE / DOCUMENT HOLDER
EMERGENCY INFORMATION SYSTEMS

DOCUMENTS TO BE KEPT INSIDE THE
DESIGNATED SPACE / DOCUMENT HOLDER

1. Transport emergency information for each dangerous goods item on the vehicle
2. One or more Dangerous Goods Declarations to cover all the Dangerous Goods that comprise the load
3. Waste Dangerous Goods Declaration (if applicable)
4. Container packing certificate (if applicable)
5. A nominally empty packaging certificate (if applicable)
6. Permits and licences required in terms of national legislation (e.g.: Class 1 - Explosives or Class 7 - Radioactive Substances)

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EMERGENCY INFORMATION SYSTEMS

DESIGNATED SPACE / DOCUMENT HOLDER

EXAMPLES OF COMPLIANT & NON COMPLIANT
DESIGNATED SPACE / DOCUMENT HOLDERS FITTED IN VEHICLE CABS

( © Copyright & Development of this presentation : DGR Compliance Solutions (Pty) Ltd )
DOCUMENT BOX TO BE SECURED AND CLEARLY VISIBLE THROUGH THE FRONT WINDSCREEN AND BOTH FRONT DOOR WINDOWS

DOCUMENT BOX TO BE SECURED AND CLEARLY VISIBLE THROUGH THE FRONT WINDSCREEN AND BOTH FRONT DOOR WINDOWS
EMERGENCY INFORMATION SYSTEMS
ORANGE DOCUMENT HOLDER
( DESIGNATED SPACE )

EMERGENCY INFORMATION SYSTEMS
LOOSE OR VELCRO SECURED
DESIGNATED SPACE / DOCUMENT HOLDERS
An Elevated Temperature warning diamond shall be displayed on both sides and the rear of a vehicle transporting the following:

- Liquids with a temperature above 100 °C
- Solids with a temperature above 240 °C
EMERGENCY INFORMATION SYSTEMS
IMDG GENERAL PURPOSE AND TANK CONTAINERS
EXAMPLES OF COMPLIANT & NON COMPLIANT SPLIT PLACARDING

EMERGENCY INFORMATION SYSTEMS
SPLIT PLACARDING FOR GENERAL FREIGHT & TANK CONTAINERS:

LEGAL SPLIT PLACARDING
EMERGENCY INFORMATION SYSTEMS
SPLIT PLACARDING FOR
TANK CONTAINERS

SPLIT PLACARDING REQUIRED ON ALL FOUR SIDES OF THE TANK CONTAINER
EMERGENCY INFORMATION SYSTEMS
SPLIT PLACARDING FOR
GENERAL PURPOSE FREIGHT CONTAINERS

SPLIT PLACARDING REQUIRED ON ALL FOUR SIDES OF A
GENERAL PURPOSE CONTAINER
EMERGENCY INFORMATION SYSTEMS
SPLIT PLACARDING FOR
GENERAL PURPOSE FREIGHT CONTAINERS

Note: Compliant Split Placarding must be displayed on IMDG Containers that have a dual transport mode i.e.: Land and Sea

Standard Placarding must be displayed if the container is ONLY transported by land

Standard Placarding displayed, Hand written UN Number, together with Split Placarding on a container is ILLEGAL !!!!

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MUNICIPAL BY LAW REQUIREMENT
(REFER TO SANS 1157)

ELECTRICAL POWER ISOLATING SWITCHES
EMERGENCY INFORMATION SYSTEMS

ELECTRICAL POWER SUPPLY
ISOLATING SWITCHES

REQUIRED BY MOST METROPOLITAN MUNICIPALITIES

Double Pole isolation switch clearly visible and labelled
Double Pole Isolation switch must be near to battery
Double Pole isolation switch easily accessible to persons in drivers seat or standing on the ground outside the vehicle

EMERGENCY INFORMATION SYSTEMS

POWER SUPPLY ISOLATING SWITCH
( POWER ISOLATOR TO BE PROPERLY LABELLED WITH USAGE INSTRUCTIONS )

VEHICLE : GVM - LESS THAN 3500 KG

VEHICLE : GVM - MORE THAN 3500 KG
FIRE EXTINGUISHERS
MUNICIPAL BY LAW REQUIREMENT
( REFER TO SANS 1157 & SANS 10231 )

FIRE CLASSES

**Class A fires : Organic Solids ( Combustible material )**
Examples are: wood, paper, cloth

**Class B fires : Flammable liquids**
Examples are: petrol, diesel, lubricating oil, gas oil, naphtha, alcohols

**Class C fires : Flammable gases**
Examples are: butane, LPG (Liquid Petroleum Gas), propane

**Class D fires : Combustible Metals**
Examples are: magnesium, titanium, sodium
FIRE EXTINGUISHER COMPATIBILITY

<table>
<thead>
<tr>
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<th>CLASS A: ORGANIC SOLIDS</th>
<th>CLASS B: FLAMMABLE LIQUIDS</th>
<th>CLASS C: FLAMMABLE GASES</th>
<th>CLASS D: COMBUSTIBLE METALS</th>
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</tbody>
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FIRE EXTINGUISHERS ( cont. )
A B C Dry Powder Fire Extinguisher

Used for the following Fire Classes:

Class A Fire – Organic Solids (Combustible Material)
Example: Wood, Paper, Cloth

Class B Fire – Flammable Liquids
Example: Petrol, Thinners, Acetone, Paint

Class C Fire – Flammable Gas
Example: LPG, Butane, Propane
Foam Fire Extinguisher

Used for the following Fire Classes:

Class A Fire – Organic Solids (Combustible Material)
Example: Wood, Paper, Cloth

Class B Fire – Flammable Liquids
Example: Petrol, Thinners, Acetone, Paint

Water Fire Extinguisher

Used for the following Fire Class:

Class A Fire – Organic Solids (Combustible Material)
Example: Wood, Paper, Cloth
FIRE EXTINGUISHERS (cont.)

Carbon Dioxide Fire Extinguisher

Used for the following Fire Class:

Class B Fire – Flammable Liquids
Example: Petrol, Thinners, Acetone, Paint

FIRE EXTINGUISHERS (cont.)

Dry Powder – D Fire Extinguisher

Used for the following Fire Class:

Class D Fire – Combustible Metals
Example: Magnesium, Titanium, Sodium
FIRE EXTINGUISHERS (cont.)

Fire Extinguisher Gauge indicating correct operating pressure

Fire Extinguisher Secured by a Safety Pin, with a Security Seal

FIRE EXTINGUISHERS (cont.)

INOPERABLE FIRE EXTINGUISHERS
FIRE EXTINGUISHERS (cont.)

FIRE EXTINGUISHER ACCESS

OBSTRUCTION
FREE ACCESS
TO FIRE
EXTINGUISHER

ILLEGAL
OBSTRUCTION
OF FIRE
EXTINGUISHER
EMERGENCY INFORMATION SYSTEMS

FIRE EXTINGUISHER REQUIREMENTS :

NOTE :

THIS IS GOVERNED VIA
MUNICIPAL BY – LAWS
&
SANS 1157 : INSPECTION REQUIREMENTS FOR
ROAD VEHICLES

SANS 1157 : 2013 :
INSPECTION REQUIREMENTS OF ROAD VEHICLES FOR THE ISSUE OF MUNICIPAL
DANGEROUS GOODS PERMITS

FIRE EXTINGUISHER REQUIREMENTS :

ALL VEHICLES WITH A GVM OF 3500 KG OR LESS :
1 X 9 KG OR 2 X 4.5 KG DCP – EXTERNAL MOUNTED

RIGID VEHICLES WITH A GVM OF MORE THAN 3500 KG
2 x 9 KG DCP – EXTERNAL MOUNTED

HORSE ( TRUCK TRACTOR ) :
1 x 9 KG DCP – EXTERNAL MOUNTED

TANKER TRAILERS or SKELETAL / GOODS TRAILERS :
2 x 9 KG DCP – EXTERNAL MOUNTED
EMERGENCY INFORMATION SYSTEMS

FIRE EXTINGUISHERS

EXAMPLES OF COMPLIANT & NON COMPLIANT FITMENT TO VEHICLES

POSITIONING OF FIRE EXTINGUISHERS ON VEHICLE: COMPLIANT
POSITIONING OF
FIRE EXTINGUISHERS
ON VEHICLE: NOT COMPLIANT

THANK YOU FOR PARTICIPATING IN THIS
AWARENESS SESSION !!!!!

QUESTIONS ?? / COMMENTS