



transport

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Transport
REPUBLIC OF SOUTH AFRICA



TRANSPORT OF DANGEROUS GOODS BY ROAD: NATIONAL ROAD TRAFFIC ACT, REGULATIONS AND SANS CODES

DRIVER AND VEHICLE REQUIREMENTS

PRESENTATION OVERVIEW

- What is our role as the Department of Transport
- Structure of the legislation
- SANS Standards
- Driver Requirements
- Driver fitness
- Vehicle Requirements: Identification of Dangerous Goods
- Danger Warning Diamond
- Vehicle identification

PRESENTATION OVERVIEW (Cont.)

- Vehicle Placards/Markings
- Contents and specifications of the Placards
- Alert Example Incorrect Placard
- Example of Placards
- Example of license and roadworthy disc
- Operator card
- Designated Space
- Transport Emergency Card
- Dangerous Goods declaration
- Fire Extinguishers

What is our role as the Department of Transport?

- Implement harmonised legislation internationally and in SADC;
- Support other stakeholders in the handling/transport of Dangerous Goods.
- Monitor and Enforce compliance in accordance with the NRTA
- Conduct ad-hoc inspections at the operators' premises and on the road
- Reduce the risk: consignors, operators, consignees, road users the general public, and the environment
- Hold those responsible for contraventions and incidents: recovery and rehabilitation costs

- South African Dangerous Goods legislation is included in Chapter VIII of the NRTA (Act 93 of 1996 & Amendments), Sections and Regulations applicable, as well as SANS Standards incorporated in NRTA in terms of Regulation 273A

Reg 274. Application

- Subject to sub-regulation (2), this Chapter applies to all vehicles registered in the Republic, wherever they may be, and to all vehicles other than those registered in the Republic, whenever they are within the Republic, in or on which dangerous goods are transported, and to such dangerous goods.



- **SANS 10228** - The identification and classification of dangerous goods for transport
- **SANS 10229** – Transport of dangerous goods – Packagings and Large packaging for road and rail transport
- **SANS 1518** – Construction, Testing, Approval, and Maintenance of road vehicles and portable tanks.
- **SANS 10231** - Operational requirements for road vehicles
- **SANS 10232** Transport of dangerous goods - **Part 1** Emergency information systems for road transport **PLACARDS**
- **SANS 10232** Transport of dangerous goods - **Part 3** Emergency Response Guide - **ERG**
- **SANS 10232** Transport of dangerous goods - **Part 4** Transport Emergency Card (**TEC**)

- ✓ Valid and correct driving license
- ✓ Valid PrDP (D – Dangerous Goods)

PrDP - (Professional Driving Permit)

- ✓ Age 25 years for category D
- ✓ Drivers of Dangerous Goods vehicles to obtain a Certificate from a DOT-approved Training body.
- ✓ The Certificate must not be older than six months
- ✓ Tested every second year for PrDP
- ✓ SAPS Clearance
- ✓ Annual Medical Fitness Certificate



DRIVER FITNESS

DRIVING LICENCE SOUTH AFRICA
ILAYISENSE YOKUSHAYELA **ZA**
CARTA DE CONDUÇÃO

WM PRODIBA

ID No.: **02/0105010327089** **FEMALE**

Birth/Usuku lokuzalwa: **01/05/1901** ZA Restr./Imingcele: **1**

Lic. No./Layisensi No.: **ZZZZA8CD0281** No.: **01**

Valid/Imvume: **01/03/1993 - 28/02/1998**

Issued/Yanikezwa: **ZA**

Code/Ikhodi: **A C1 EB EC**
Veh. restr./Imingcele yemoto: **0 4 0 1**

First issue/Ukunikezwa kokugala: **15/09/1921 01/10/1923 08/08/1922 17/01/1924**

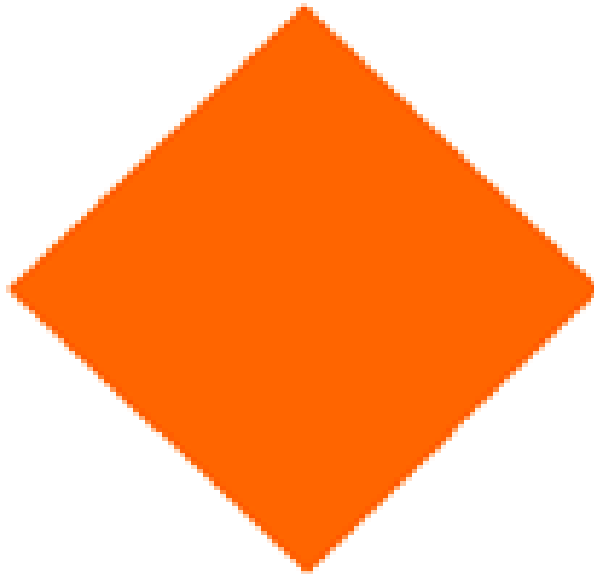
WM Prodiba

Prof. driving permit: **P,D,G**
Imvume yobungcweti ekusayeleni
Expiry date: **28/02/1995**
Usuku ephela ngalo

VEHICLE REQUIREMENTS

IDENTIFICATION OF DANGEROUS GOODS

- Dangerous goods vehicles are identified by the legal markings
- In law enforcement: the first identification of dangerous goods vehicle is an orange danger warning diamond on the front of the vehicle





Must be:

- ✓ Clearly visible on the front of the vehicle (there are no specific requirements for the exact position)
- ✓ Orange in colour
- ✓ Clean and undamaged
- ✓ 250mm square or 100mm on a vehicle GVM less than 3500kg
- ✓ Mounted diagonally (diamond shape)



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VEHICLE IDENTIFICATION





VEHICLE PLACARDS / MARKINGS

There must be three placards for each cargo containment area:

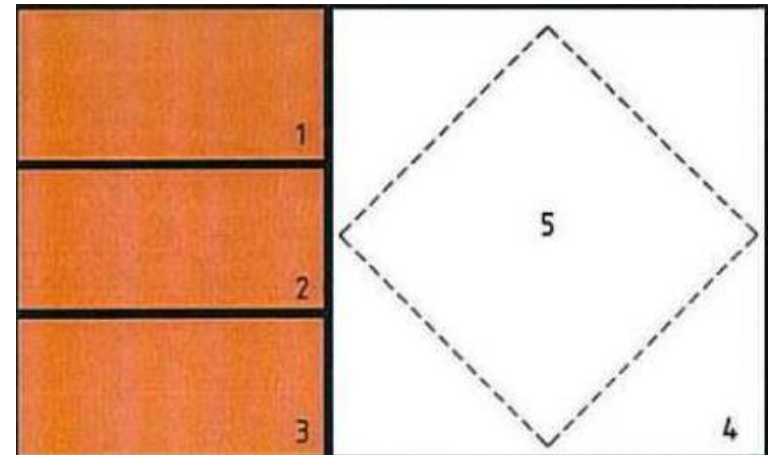
- ✓ One at the rear and one on each side of the containment area
- ✓ Placards must be visible from the roadside (no specific requirements for position)
- ✓ Placards must be clean and undamaged



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CONTENT OF PLACARD



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 – primary hazard class + any subsidiary hazards



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EXAMPLE OF WASTE PLACARD





EXAMPLES OF PLACARD

Placard for a vehicle transporting more than one dangerous goods substance with the same hazard class and E.R.G





EXAMPLES OF PLACARDING





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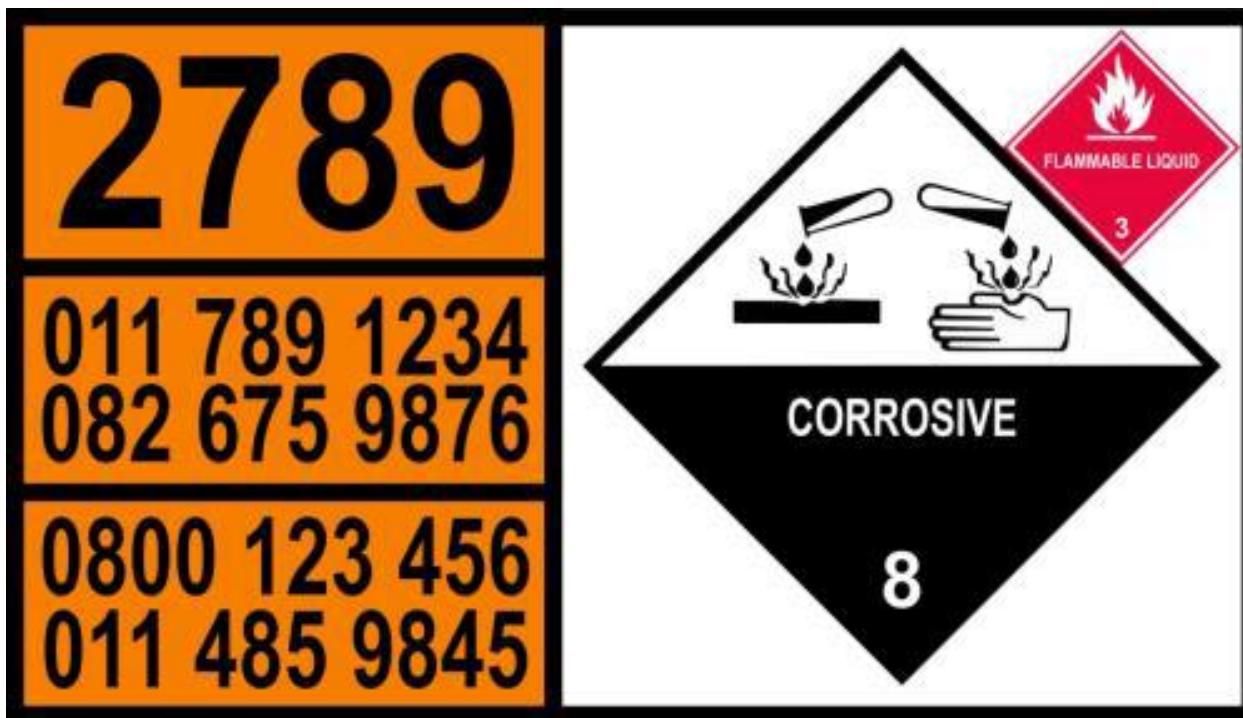
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EXAMPLE OF A SPLIT PLACARD FOR CTU - SHIPPING CONTAINERS





EXAMPLE OF SUBSIDIARY RISK

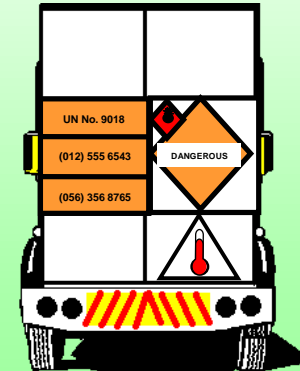
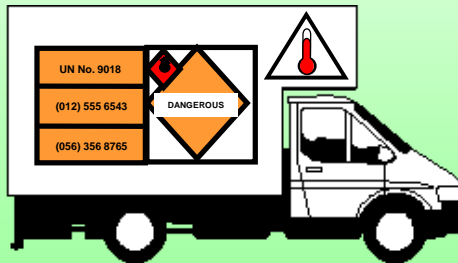
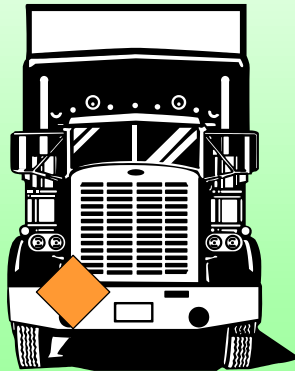
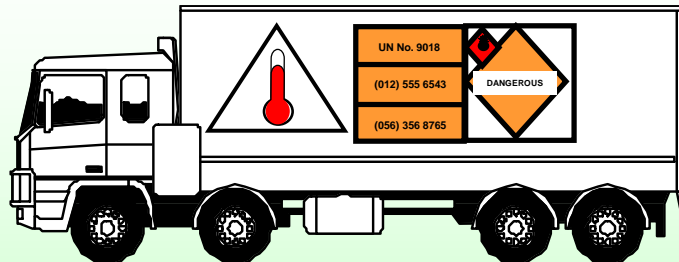


Primary Class 8 Corrosive + Subsidiary hazard
Class 3 Flammable



EXAMPLE OF ELEVATED TEMPERATURE WARNING

Elevated temperature





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EXAMPLE OF LICENCE AND ROADWORTHY DISC

LISENSIESKYF EN PADWAARDIGHEIDSERTIFIKAAT
RSA
NO. 4046047WBVF4 NR.

Licence no. Lisensienr.	CT55DJGP	Veh. register no. Vrt registrernr.	FSZ893K
VIN	ADMBRRAROC4659597	Fees/Gelde	2.2
Engine no./Enjinnr.	4JA1379913	GVM/BVM	2850kg
Make	ISUZU	Tare/Tarra	1630 kg
Description	Pick-up / Bakkie	Fabrikaat	Beskrywing



RW expiry date 2014-10-31 PW vervaldatum
Persons: 003 Seated Sittende 000 Standing Staande
Date of expiry/Vervaldatum
2014-10-31
LICENCE DISC AND ROADWORTHY CERTIFICATE



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





DESIGNATED SPACE

- Container, of the colour orange, marked with the word documents in black, which is securely fixed and clearly visible in the cab
- Easily accessible
- Carry documents:
 - It must only contain documents of goods or substances carried i.e.
 - TECard: Transport Emergency Card
 - Dangerous Goods Declaration
 - Waste Dangerous Goods Declaration
 - Cleanliness Certificate



DESIGNATED SPACE





TRANSPORT EMERGENCY CARD

TEC

1. “Transport Emergency Card” TEC means a card that is generated in South Africa in accordance with SANS 10232-4, listing the hazards and emergency information for a material being transported for use by the driver in case of an incident, or by the emergency services if required.
2. Any vehicle used for the transport of dangerous goods shall carry a Transport Emergency Card for each dangerous goods item in the load
3. The Transport Emergency Card(s) shall be stored in the designated space
4. The Transport Emergency Card shall COMPLY WITH SANS10232.4
5. It shall be valid for 3 years



TRANSPORT EMERGENCY CARD (TREC – previously TREMCARD)

SANS 10232-4:2007

Edition 1.1

Annex A (normative)

Transport emergency card layout

TRANSPORT EMERGENCY CARD – Road transport

In accordance with SANS 10232-4

UN No.	
Class	
Subsidiary risk	
Packing group	
ERG No.	

PROPER SHIPPING NAME

.....

APPEARANCE

.....

DANGER

..... (H phrases)

PERSONAL PROTECTIVE EQUIPMENT

..... (PP phrases)

EMERGENCY RESPONSE EQUIPMENT

..... (ER phrases)

DRIVER FIRST ACTIONS – Only if it can be carried out without personal risk

..... (D phrases)

DRIVER SPECIAL/ADDITIONAL ACTIONS – Only if it can be carried out without personal risk

..... (S phrases)

DRIVER ACTIONS IN CASE OF FIRE – Only if it can be carried out without personal risk

..... (F phrases)

FIRST AID

..... (A phrases)

SPECIAL INFORMATION FOR EMERGENCY SERVICES

..... (E phrases)

ADDITIONAL INFORMATION

EMERGENCY TELEPHONE NUMBERS

PREPARED BY from the best knowledge currently available; no guarantee is provided that the information is sufficient or correct under all circumstances.

Date M/Y:

Reference:



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TRANSPORT EMERGENCY CARD (TECard)

TRANSPORT EMERGENCY CARD		UN NO 1223	
Road Transport in accordance with SANS 10232-4		Class/Division 3	
		Subsidiary risk III	
		Packing group 128	
		ERG No 128	
PROPER SHIPPING NAME Kerosene			
APPEARANCE • Liquid • Insoluble In Water • Lighter Than Water • Colourless • Odour			
DANGER • Flammable • May form explosive mixture with Air, particularly in empty uncleaned containers • The vapour may be invisible • The vapour is heavier than Air and spreads along the ground • Heating will cause pressure rise with risk of bursting and explosion			
PERSONAL PROTECTIVE EQUIPMENT • Goggles or Face Shield / Light protective clothing • Protective gloves / Protective footwear • Eyewash bottle with clean water		EMERGENCY RESPONSE EQUIPMENT • Appropriate Spill Kit • Non sparking shovel (Plastic or Rubber) / Broom • Suitable absorbent	
DRIVER FIRST ACTIONS • Stop the engine • No naked lights / No smoking • Surround vehicle with Orange Barrier Cones • Warn other road users or passers-by • Keep public away from the danger area • Keep upwind • Notify the police and fire brigade as soon as possible		DRIVER SPECIAL/ADDITIONAL ACTIONS • Any action only if without personal risk • Stop leaks if without risk • Contain or absorb the liquid with suitable absorbent • Vapour may create explosive atmosphere / Avoid making sparks • Avoid direct contact with the substance • Prevent liquids entering water courses, sewers, work areas • If substance has entered a water course or sewer or been spilt on soil or vegetation, inform the police	
DRIVER ACTIONS IN CASE OF FIRE • Do not attempt to deal with any fire involving the load			
FIRST AID • Start and continue medical treatment until medical assistance is provided • Burns : Cool affected skin as long as possible with cold water • Eyes : Immediately wash out with plenty of water • Remove contaminated clothing immediately and wash affected skin with soap and water • Apply artificial respiration only if person is not breathing or under medical supervision • Do not induce vomiting • If any symptoms are visible apparently due to Inhalation / Swallowing / Contact with Eyes • Transport to a medical facility for further treatment and observation			
SPECIAL INFORMATION FOR EMERGENCY SERVICES • Keep container(s) cool by spraying with water if exposed to fire • Extinguish with water spray, foam, dry chemical • Do not use water jet • Use low sparking and explosion proof tools and electrical equipment • Prevent entry into sewers / Work areas / Basements			
ADDITIONAL INFORMATION CONTACT REFERENCE Liquid Energy (Pty) Ltd 19 Hill Street, Industrial Park, Port Elizabeth, 6101		EMERGENCY TELEPHONE NUMBERS George Jones Landline : 041 657 1234 / Mobile : 074 123 4567	
SUBSTANCE / BRAND NAME CHEVRON PARAFFIN			
PREPARED BY Prepared by DGR Compliance Solutions from the best knowledge available; no guarantee is provided that the information is sufficient or correct under all circumstances			
PREPARATION DATE 01-04-2016	EXPIRY DATE 01-04-2019	REFERENCE 16 04 01 - Liquid Energy UN 1223, PG : III	NOTES Example of TEC generated from the DGTECSA Software
			DGR REF 000150

DANGEROUS GOODS DECLARATION

The Dangerous Goods Declaration shall bear the heading -

- “DANGEROUS GOODS DECLARATION” and shall contain the following information :
- The Proper Shipping Name - PSN
- The UN Number

The quantity and type of packaging

- The gross mass – Verified Gross Mass, or volume, and the net mass of the goods
- The names and contact details of the following parties (where applicable)
- Consignor, Operator , Consignee



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EXAMPLE OF A DANGEROUS GOODS DECLARATION

SANS 10232-1:2007
Edition 3

Annex E (informative)

Example of a completed dangerous goods declaration

DANGEROUS GOODS DECLARATION				Company Logo (optional)		
Consignment Note No: 101 11X				Operator: B Higgins, Higgins Road freight, 200 South Ave, Germiston Tel: 011 200 2000 Reg. no. vehicle: XYZ 200 GP		
Consignor: R A Jones, Jones Warehouse, 100 High Rd, Germiston Tel: 011 100 1000				Consignee: ABC Chemicals, 300 Marine Drive, Durban Tel: 031 300 3000		
Product manufacturer				Additional information on handling/transport/ storage: The package marked with UN XXXX shall be shaded from sunlight		
Product owner						
Product custodian						
Party contracting the operator: R A Jones, Jones Warehouse, 100 High Rd, Germiston Tel: 011 100 1000						
Shipping name	UN No.	Haz class	PG	Quantity & type of packaging	Gross mass kg	Net mass/vol kg/L
Paint	1263	3	III	2 fibreboard boxes, 4 x 5 L each	52	41.5
<p align="center">DECLARATIONS</p> <p>"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 labelled/placarded and in all respects in proper condition for transport in accordance with the relevant national legislation."</p> <p>Where the consignor is not the manufacturer, the declaration is based on information received.</p> <p>Consignor : Product manufacturer <input type="checkbox"/> / Product owner <input type="checkbox"/> / Product custodian <input type="checkbox"/> / Party that contracts the operator <input checked="" type="checkbox"/> :</p> <p>Signed: <u>R A Jones</u> Date: 2006-09-07</p> <p>"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."</p> <p>Driver</p> <p>Signed: <u>J K Williams</u> Date: 2006-09-07</p>						

FIRE EXTINGUISHERS

ALL VEHICLES WITH A GVM OF 3500 KG OR LESS :

- ✓ 1 X 9 KG OR 2 X 4.5 KG –EXTERNAL MOUNTED
- ⇒ RIGID VEHICLES WITH A GVM MORE THAN 3500 KG
- ✓ 2 x 9 KG – EXTERNAL MOUNTED
- ⇒ HORSE (TRUCK TRACTOR) :
- ✓ 1 x 9 KG – EXTERNAL MOUNTED
- ⇒ TRAILERS or SEMI TRAILER TRAILERS
- ✓ 2 x 9 KG – EXTERNAL MOUNTED



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THANK YOU

QUESTIONS ???