



CONVEY



DANGEROUS GOODS

BY ROAD

PLEASE NOTE

THE MINIMUM AGE FOR A

DANGEROUS GOODS PrDP - D

IS

25

***THIS MEANS THAT YOU CAN STILL LEGALLY
DRIVE A VEHICLE UNDER 3.5 TONS (LDV)
WITH THIS TRAINING CERTIFICATE***

Unit Standard Assessed

UNIT STANDARD

123259

NQF LEVEL

3

TITLE

“Convey D/Goods By Road”

WHAT WILL OCCUR TODAY?

PowerPoint Presentation

Practice quiz after each chapter

Multiple Choice Assessment (TEST)

Assessment **Method**

TRUE / FALSE ANSWERS

MULTIPLE CHOICE ANSWERS

“OPEN-BOOK TEST”

**75% MARK REQUIRED TO PASS
ON FINAL ASSESSMENT
ONLY**

COURSE CONTENT

THIS COURSE CONSISTS OF 13 CHAPTERS

- Introduction to dangerous goods
- The nine hazardous classes
- Packaging requirements
- Regulation of dangerous goods
- Placarding of vehicles
- Prescribed documents
- Consignor duties
- Qualified person duties
- Operator duties
- Driver duties
- Consignee duties
- Vehicle Compliance
- Firefighting & first aid

PART ONE

INTRODUCTION TO DANGEROUS GOODS



WHAT ARE “DANGEROUS GOODS”

“GOODS CAPABLE OF POSING
A SIGNIFICANT RISK TO
HEALTH, SAFETY, PROPERTY
OR
ENVIRONMENT
DURING TRANSPORT”



HEALTH

(toxins or diseases)



SAFETY



PROPERTY



ENVIRONMENT

OTHER NAMES FOR “DANGEROUS GOODS”

HAZARDOUS CHEMICAL SUBSTANCES

HAZARDOUS SUBSTANCES

HAZARDOUS MATERIALS

HAZCHEM

HAZMAT

HOW ARE “DANGEROUS GOODS” OFTEN IDENTIFIED?

By a **DIAMOND-SHAPED** label on

- an item
- a container
- a building



CONTAINERS



STORAGE AREAS

**DUE TO THE RISK TO
HEALTH, SAFETY
PROPERTY &
ENVIRONMENT,
DANGEROUS GOODS
MUST BE REGULATED**

DANGEROUS GOODS

ARE REGULATED BY

THE NRTA

OTHER ACTS

NATIONAL STANDARDS

MUNICIPAL BY-LAWS

NRTA

SECTION 54

No person must, except as prescribed, **offer** for transportation in a vehicle, or **transport** in a vehicle, or **accept** after transportation in, on or by a vehicle, **any prescribed dangerous goods.**

ANY PERSON WISHING

TO TRANSPORT ANY

“GOODS” IN S.A.

SHOULD ASK

“ARE THE GOODS

DANGEROUS GOODS”

**WHO MUST IDENTIFY
“DANGEROUS GOODS”?**

THE CONSIGNOR

**“PERSON WHO OFFERS D/G
FOR TRANSPORT IN A VEHICLE”**

HOW ARE
“DANGEROUS GOODS”
IDENTIFIED?

IT STARTS WITH
SANS 10228: 2012

SANS 10228: 2012

**THE IDENTIFICATION AND
CLASSIFICATION OF
DANGEROUS GOODS
FOR TRANSPORT BY
ROAD OR RAIL MODES**

HOW ARE “DANGEROUS GOODS” CLASSIFIED?

UN NUMBER

PROPER SHIPPING NAME

HAZARD CLASS / CLASSES

PACKING GROUP

What is a

UN NUMBER?

A SERIAL NUMBER THAT
CONSISTS OF FOUR DIGITS,
AND IS ASSIGNED TO D/G
BY THE UNECE COMMITTEE
OF EXPERTS

UN NUMBERS

RANGE FROM 0001 to 3506

**SINGLE SUBSTANCES HAVE
THEIR OWN NUMBER**

OR

**GROUPS OF CHEMICALS
HAVE A COMMON NUMBER**

PETROL?

UN NUMBER?

1203

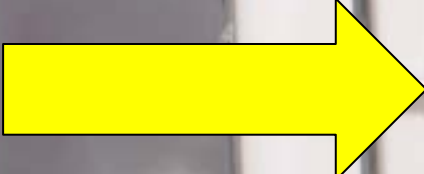
SAME SUBSTANCE

AS A SOLID OR LIQUID?

MAY RECEIVE

DIFFERENT

UN Numbers



**SODIUM HYDROXIDE
50% SOLUTION**

UN No

1824

HAZCHEM

2R

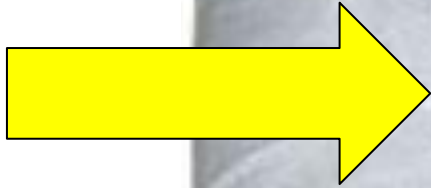


IN EMERGENCY DIAL
**000, POLICE OR
FIRE BRIGADE**

SPECIALIST ADVICE

**TELFORD INDUSTRIES
1800 835 115
A/H 0409 313 441**

CAUSTIC SODA
FLAKES



1823

NaOH : 99% MIN

NET : 25.0 KGS

GROSS: 25.16 KGS

MADE IN CHINA



5H3/Y26/S/05
120239 PE 008

PROPER SHIPPING NAME

Description used for dangerous goods in transport documentation, in the marking of packages, and in the placarding of containers and vehicles to ensure that goods can be readily identified during transport

ENAMEL PAINT?



Shipping Name?

“PAINT, FLAMMABLE”

HAZARD CLASS

“dangerous goods are classified (placed in a Class or Division) according to their Primary Danger or Risk and are assigned standardised warning symbols / labels to identify the relevant class”

OXYGEN



PRIMARY HAZARD?

“High Pressure / Cold”

SUBSIDIARY RISK CLASS

“A class assigned to a substance with more than one danger or risk, where the secondary (subsidiary) danger/s is/are significant enough to warrant further recognition of the additional hazard/s”

OXYGEN



SUBSIDIARY

RISK?

OXIDIZER

ACETONE, METHYL CHLORIDE



HYDRAZINE HYDRATE



CHLORINE GAS

PLACARD WITH S/RISK



PACKING GROUP

“A group symbol that indicates the degree of danger or hazard of the Primary Property of a specific substance”

PACKING GROUP

abbreviation

“PG”

PG I - EXTREME

PG II - MEDIUM

PG III - MINOR / MILD



“PG”

I

II

III

METHANOL

PETROL

DIESEL

WHICH IS MOST FLAMMABLE?

WHICH IS LEAST FLAMMABLE?



“PG”

I

II

III

HYDROCHLORIC ACID

>80%

>50%

>20%

WHICH IS MOST CORROSIVE?

WHICH IS LEAST CORROSIVE?

CLASS	CLASS NAME	PG
1	EXPLOSIVES	n/a
2.1	FLAMMABLE GASES	n/a
2.2	COMPRESSED GASES	n/a
2.3	TOXIC GASES	n/a
3	FLAMMABLE LIQUIDS	I – II – III
4.1	FLAMMABLE SOLIDS	I – II – III
4.2	SPONTANEOUSLY COMBUSTIBLE	I – II – III
4.3	DANGEROUS WHEN WET	I – II – III
5.1	OXIDIZERS	I – II – III
5.2	ORGANIC PEROXIDES	I or II
6.1	TOXIC	I – II – III
6.2	INFECTIOUS	n/a
7	RADIOACTIVE	OPPOSITE
8	CORROSIVE	I – II – III
9	MISCELLANEOUS	I – II – III

PACKING GROUP

*WHERE A SUBSTANCE HAS A
“NOT APPLICABLE”
PG, THEN YOU MUST APPLY*

PACKING GROUP – I

PACKING GROUP

RADIOACTIVES

“are labelled according to
“emission” levels, where the
levels work the

OPPOSITE

of Packing Groups.”



EMISSION LEVEL

I

LOW

II

MEDIUM

III

HIGH



PART ONE

INTRODUCTION TO DANGEROUS GOODS

CLICK ON THE TAB BELOW TO COMPLETE QUIZ

CHAPTER ONE QUIZ

PART TWO

THE NINE HAZARD CLASSES





1.1-1.6 EXPLOSIVES



2.1-2.3 GASES

2.1 Flammable Gases

2.2 Compressed Gases

2.3 Toxic Gases

[non-toxic non-flammable]



3 FLAMMABLE LIQUIDS



4 FLAMMABLE SOLIDS

2.1 Flammable Solid

2.2 Spontaneously Combustible

2.3 Dangerous when Wet



5.1 OXIDISERS



5.2 ORGANIC PEROXIDES



6.1 TOXIC



6.2 INFECTIOUS



7 RADIOACTIVE: I LOWEST, III HIGHEST



8 CORROSIVE



9 MISCELLANEOUS

THE NINE CLASSES

CLASS 1
“EXPLOSIVES”



NAIL GUN CARTRIDGES



FIREWORKS: UN 0335



FLARES



BLASTING CAPS



DETONATORS



FUSE



PRIMERS



EXPLOSIVE CHARGES

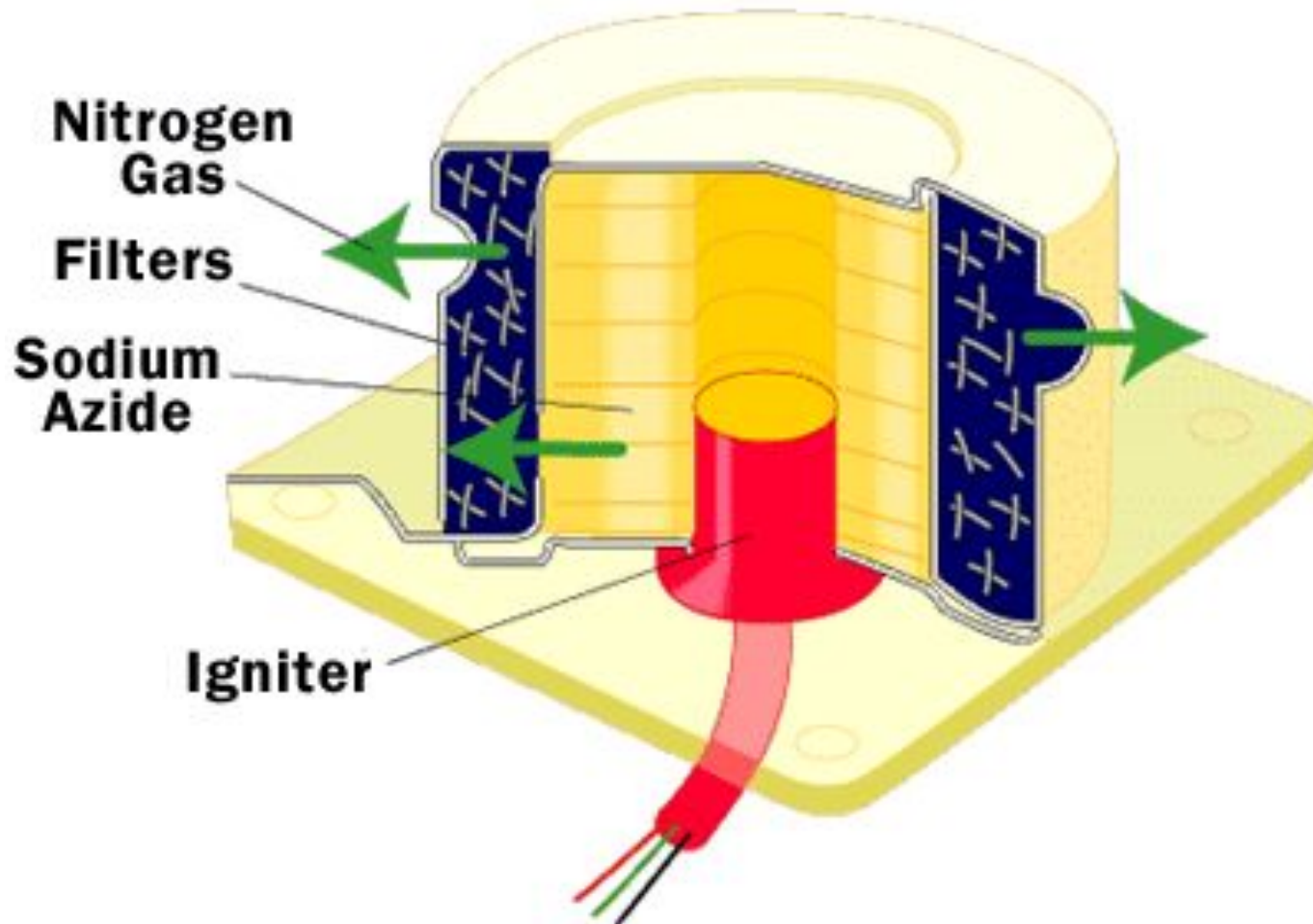


DETONATING CORD

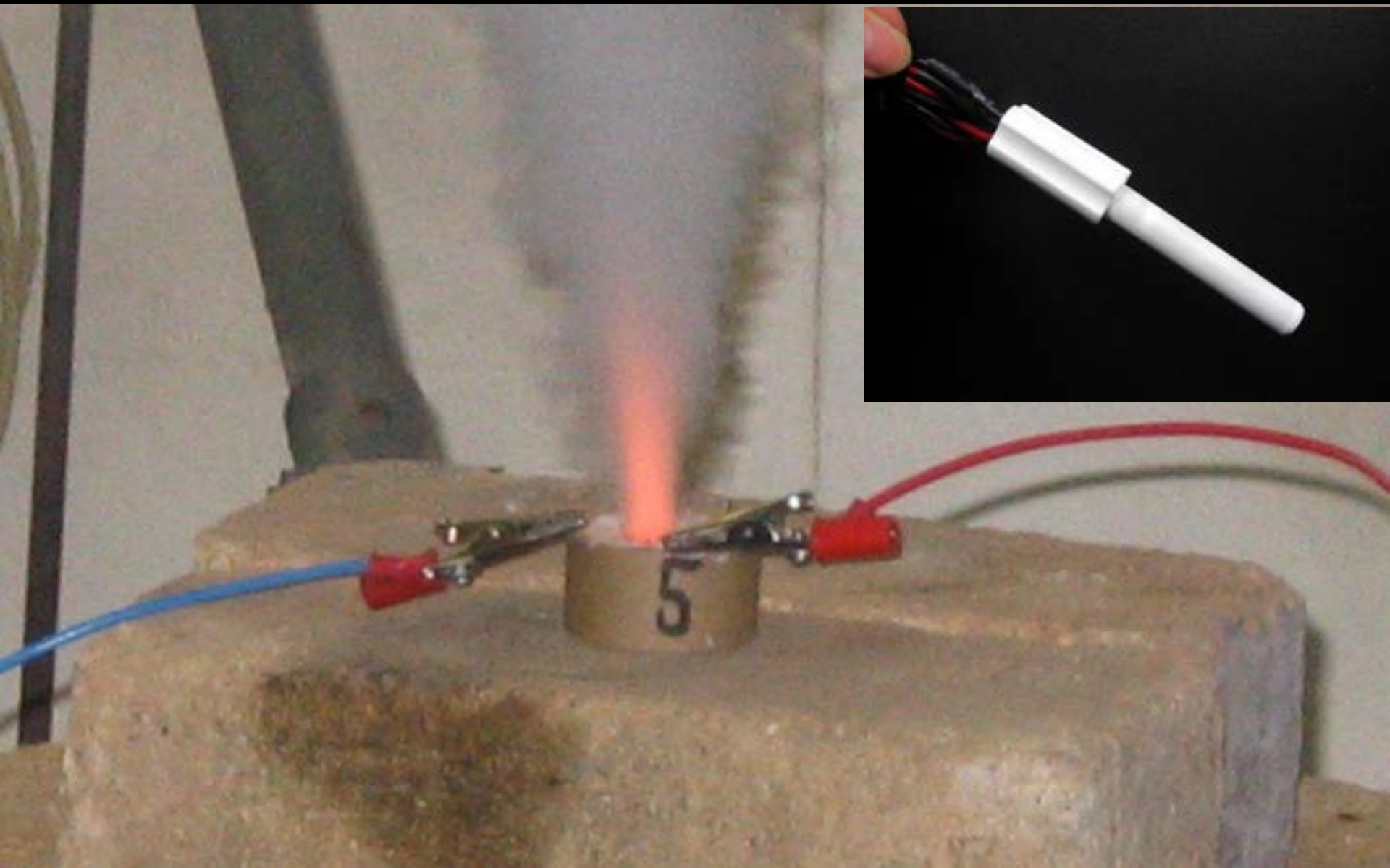


AIRBAG INFLATOR

Air Bag Inflation Device



IGNITERS



ROCKETS



TNT - TRINITROTOLUENE



RDX – Research Dept Expl



Pentaerythritol Tetranitrate (PETN),



DYNAMITE



MILITARY WEAPONS



HMX



MILITARY WEAPONS



RDX (C4)









HAZARDS / RISKS

Chemical Reaction

producing gases at temperatures, pressures and speeds that cause **catastrophic damage** through **force**

and/or producing

hazardous amounts of heat, light, sound, gas or smoke

CLASS 2 : “GASES”



CLASS 2 : “GASES”

RED DIAMOND:

2.1 Flammable Gas



GREEN DIAMOND

2.2 Non Flammable, Non-Toxic Gas



BLACK DIAMOND

2.3 Toxic Gas



CLASS 2 : “GASES”

**ALL GASES IN CYLINDERS,
CANS OR BOTTLES ARE UNDER**

HIGH PRESSURE

(PACKING GROUP I)





EPIC FAIL





EPIC FAIL X

SECURE?



ACETYLENE EXPLOSION



CLASS 2.1

“FLAMMABLE GAS”

**AEROSOLS, GAS CARTRIDGES,
LIGHTERS, ACETYLENE,
HYDROGEN, METHANE,
PETROLEUM GAS, BUTANE,
PROPANE, OIL GAS, ETHANE**



AEROSOLS



UN: 1950

AEROSOLS

UN: 1950



GENERAL GASES



UN: 1954

BUTANE GAS



UN: 1057

UN: 1011

PROPANE GAS – UN: 1978





ACETYLENE GAS – UN 1001



EXTREMELY FLAMMABLE

B.L.E.V.E.



HAZARDS & RISKS

Gases are capable of posing serious hazards due to their flammability,

Explosions,

Unconfined Vapour Cloud Explosions,

Boiling Liquid Expanding Vapour Explosions,

Rocketing Gas Cylinders,

Asphyxiation, and

Toxic Effects on Humans/Animals

CLASS 2.2

“NON-FLAMMABLE / NON-TOXIC GAS”

**FIRE EXTINGUISHERS, OXYGEN, NITROGEN,
HELIUM, CARBON DIOXIDE, COMPRESSED AIR
NEON, ARGON, FREON, KRYPTON**



CLASS 2.2
“NON-FLAMMABLE / NON-TOXIC GAS”

COMPRESSED and/or EXTREMELY COLD



OXYGEN



UN 1072

FIRE EXTINGUISHERS



**UN 1044:
1,400 – 6,800 KPA**

NITROGEN, REFRIGERATED LIQUID



UN 1977

NITROGEN



UN 1066



REFRIGERATED OXYGEN

UN 1073



PRESSURIZED GAS

**AIR,
COMPRESSED**

(MEDICAL AIR, USP)

UN1002



WARNING: For breathing support when used by properly trained personnel. For medical applications, **Rx only**. Administration of Medical Air may be hazardous or contraindicated. For medical use only by or under the supervision of a licensed practitioner who is experienced in the use and administration of Medical Air and is familiar with the indications, effects, dosages, methods, and frequency and duration of administration, and with the hazards, contraindications and side effects, and the precautions to be taken. **CAUTION: HIGH PRESSURE GAS. MAY ACCELERATE COMBUSTION.** Keep oil and grease away. Use equipment rated for cylinder pressure. Cylinder temperature should not exceed 52°C (125°F). Close valve after each use and when empty. Use in accordance with the **Material Safety Data Sheet (MSDS)**.
GAS: 132259-10-0



**FILLED & DISTRIBUTED BY:
UNITED STATES WELDING, INC.
DENVER, COLORADO**

Contents (Liters)
0398 0513205 6601 10004
01207 15308 54106 10007

FRIDGE GAS



UN 3159





UN 2187

HAZARDS AND RISKS

Gases are capable of posing serious hazards due to pressure and cold, pressure explosions, rocketing cylinders and frost bite effects on humans.

CLASS 2.3

“TOXIC GAS”

POISONOUS and/or CORROSIVE GASES



CLASS 2.3

“TOXIC GAS”

**INSECTICIDAL GASES,
ETHYLENE OXIDE,
SULPHUR DIOXIDE,
HYDROGEN CYANIDE,
CHLORINE**

Toxic Gases

1	Group 1
H	Hydrogen
1.00794	
	2a
	4

F_2 & Cl_2 (Fluorine & chlorine gas)

$HF_{(g)}$ Hydrogen Fluoride

$HCl_{(g)}$ Hydrogen Chloride

H_2S Dihydrogen Sulfide

HCN – Hydrogen cyanide

NO - NO_2 - NO_3 - N_2O

Cl_2O dichlorine monoxide

NH_3 Ammonia

PCl_3 Phosphorus trichloride

Group 4a	Group 5a	Group 6a	Group 7a	Group 8a
6 C Carbon 12.011	7 N Nitrogen 14.0067	8 O Oxygen 15.9994	9 F Fluorine 18.9984	10 Ne Neon 20.183
14 Si Silicon 28.086	15 P Phosphorus 30.9738	16 S Sulfur 32.06	17 Cl Chlorine 35.45	18 Ar Argon 39.948
32 Ge Germanium 72.61	33 As Arsenic 74.9216	34 Se Selenium 78.96	35 Br Bromine 79.904	36 Kr Krypton 83.80
50 Sn Tin 118.71	51 Sb Antimony 121.76	52 Te Tellurium 127.60	53 I Iodine 126.9045	54 Xe Xenon 131.29

ETHYLENE OXIDE



DANGER
CONTAINS ETHYLENE OXIDE
CANCER HAZARD AND
REPRODUCTIVE HAZARD

ETHYLENE OXIDE



- **ETHYLENE GLYCOL (anti-freeze)**
- **PET (raw material for plastic bottles)**
- **STERILISATION (Hospital Equipment)**

HYDROGEN CYANIDE



HYDROGEN CYANIDE



GAS CHAMBER

ABANDONED STATE PRISON

HYDROGEN CYANIDE

is used to manufacture:

Potassium Cyanide (mining)

Sodium Cyanide (mining)

Pesticides

Chemical Weapons

Gas Chambers (USA)



CHLORINE GAS



CHLORINE GAS



is used:

**in water purification
to make disinfectants
to make bleach**

HAZARDS & RISKS

Gases are capable of posing serious hazards due to:

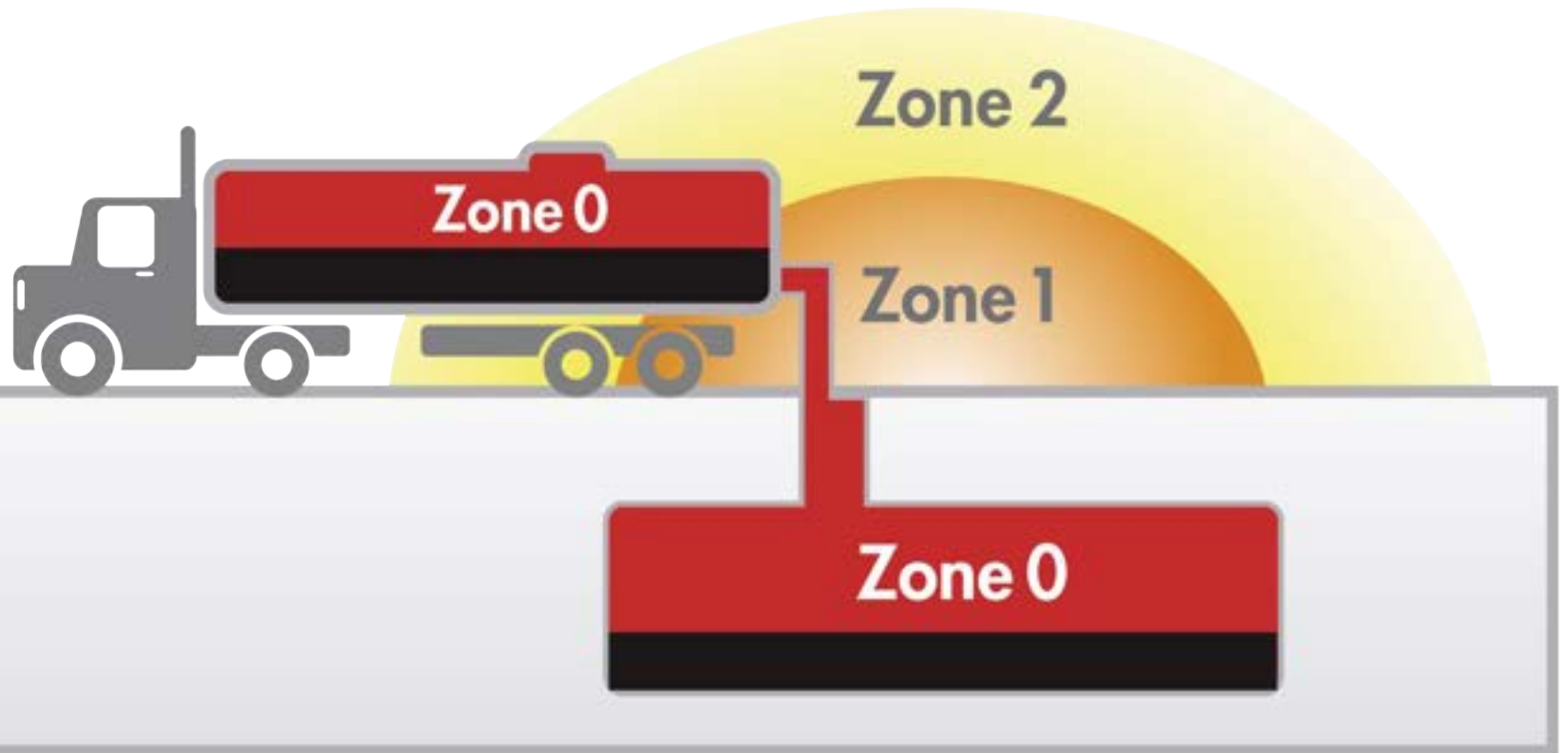
- pressure explosions,**
- rocketing cylinders**
- toxic or**
- corrosive effects**

CLASS 3

FLAMMABLE LIQUIDS



VAPOUR CLOUDS



FUELS



ALCOHOLS un 3065



ALCOHOLS

3065	
OPERATOR TEL ADVICE NUMBER	
SPECIALIST TEL ADVICE NUMBER	

ALCOHOLS

Table C.1 (continued)

1	2	3	4	5	6
UN No.	Proper shipping name	Class	Pack- ing group	Subs. risk	Ex- empt quan- tities
3056	n-HEPTALDEHYDE	3	III		1 000
3057	TRIFLUOROACETYL CHLORIDE	2.3		8	10
3064	NITROGLYCERIN, SOLUTION IN ALCOHOL with >1% ≤5% nitroglycerin	3	II		500
3065	ALCOHOLIC BEVERAGES, with >70% alcohol by volume	3	II		500
	ALCOHOLIC BEVERAGES, with >24% ≤70% alcohol by volume	3	III		1 000

SOLVENTS



PERFUMERY



PAINT PRODUCTS



UNCONFINED VAPOUR CLOUD EXPLOSIONS



HAZARDS AND RISKS

Flammable liquids are capable of posing serious hazards due to:

- their volatility (fumes)**
- combustibility**
- severe vapour cloud explosions**

CLASS 4 : FLAMMABLE SOLIDS



CLASS 4.1 - FLAMMABLE SOLIDS

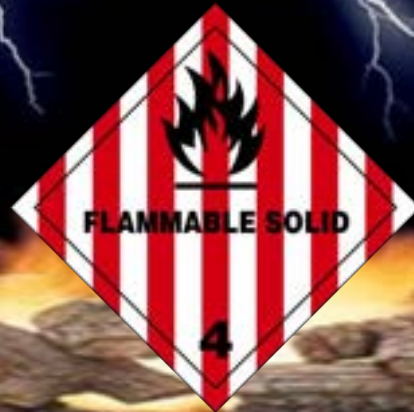
- FIRE LIGHTERS
- SULPHUR
- CAMPHOR
- NAPHTALENE
- CANDLES
- MATCHES



FIRELIGHTERS & GELS

BliXim Firelighters

12 Pieces



*Matches
Included*

With us you will seek for an opportunity to BRAAI

SULPHUR



CAMPHOR BLOCKS



NAPHTALENE



SAFETY MATCHES



HAZARDS AND RISKS

Flammable solids are capable of posing serious hazards due to their volatility, combustibility and potential in causing severe conflagrations (explosions)

CLASS 4.2

SPONTANEOUSLY COMBUSTIBLE

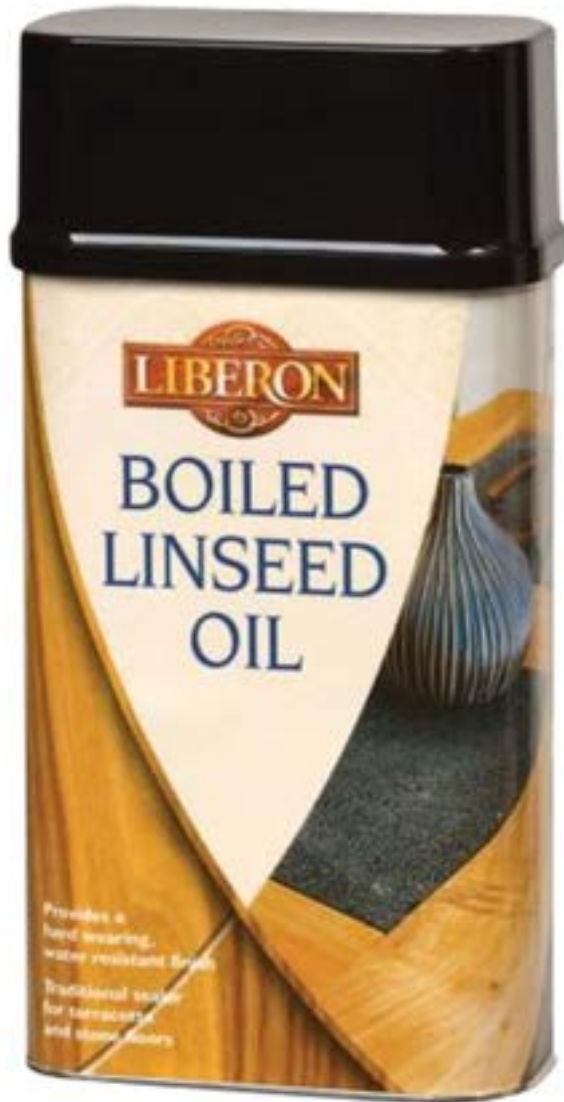
- **WHITE, YELLOW PHOSPHOROUS**
- **LINSEED OIL**
- **CHARCOAL AND COAL**
- **SODIUM HYDROSULPHITE**



PHOSPHOROUS



LINSEED OIL & VARNISH



CHARCOAL

1361



HAZARDS & RISKS

Are capable of posing serious hazards due to their:

Volatility,

Combustibility

**Heat up in confined spaces, and
ignite fires in containers.**

CLASS 4.3

“DANGEROUS WHEN WET”

- SODIUM
- CALCIUM CARBIDE
- POTASSIUM
- LITHIUM
- CERIUM
- RUBIDIUM
- FRANCIUM
- CAESIUM



SODIUM + WATER



SODIUM + WATER



CALCIUM CARBIDE



EVOLVES ACETYLENE

LITHIUM + WATER

visualphotos.com



PHOSPHOROUS PENTASULPHIDE



HAZARDS & RISKS

**Produces Various Flammable
And Toxic Gases When Wet:**

**Hydrogen
Acetylene**

**Phosphine
Hydrogen Sulfide**



HAZARDS & RISKS

Are capable of posing serious hazards due to:

- Volatility**
- Combustibility**
- React violently with water,**
- Emit hydrogen and toxic gases**
- Ignite fires or cause explosions.**

CLASS 5

“OXIDIZERS & ORGANIC PEROXIDES”



CLASS 5.1

“OXIDIZERS”

- CALCIUM HYPOCHLORITE (hth)
- AMMONIUM NITRATE
- HYDROGEN PEROXIDE
- POTASSIUM PERMANGANATE
- SODIUM NITRATE
- ALUMINIUM NITRATE
- SODIUM CHLORITE
- AMMONIUM PERCHLORATE



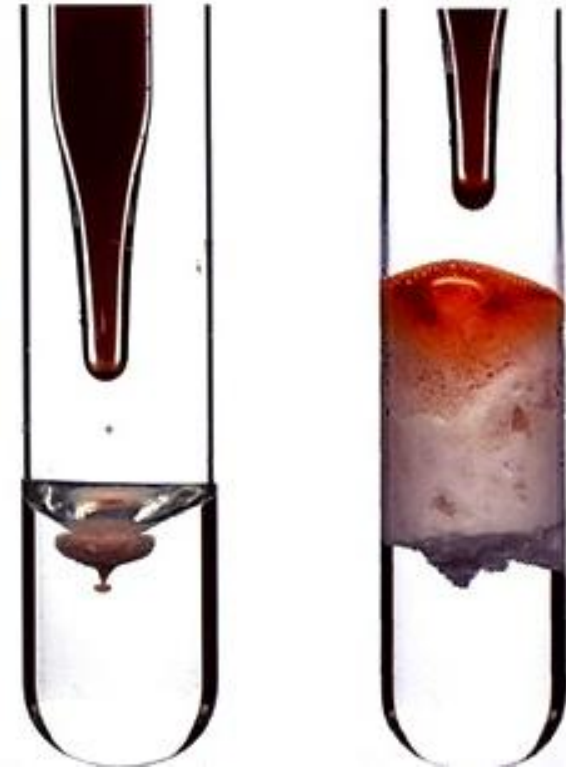
CALCIUM HYPOCHLORITE



AMMONIUM NITRATE



HYDROGEN PEROXIDE



POTASSIUM PERMANGANATE



SODIUM CHLORITE



CLASS 5.1

“OXIDIZERS”

Oxidizers, although not necessarily combustible in themselves, can yield oxygen and in so doing cause or contribute to the combustion of other materials.

CLASS 5.2

“ORGANIC PEROXIDES”

- **BENZOYL PEROXIDE**
- **ACETONE PEROXIDE**
- **CUMENE HYDROPEROXIDE**



BENZOYL PEROXIDE



ACETONE PEROXIDE



CLASS 5.2

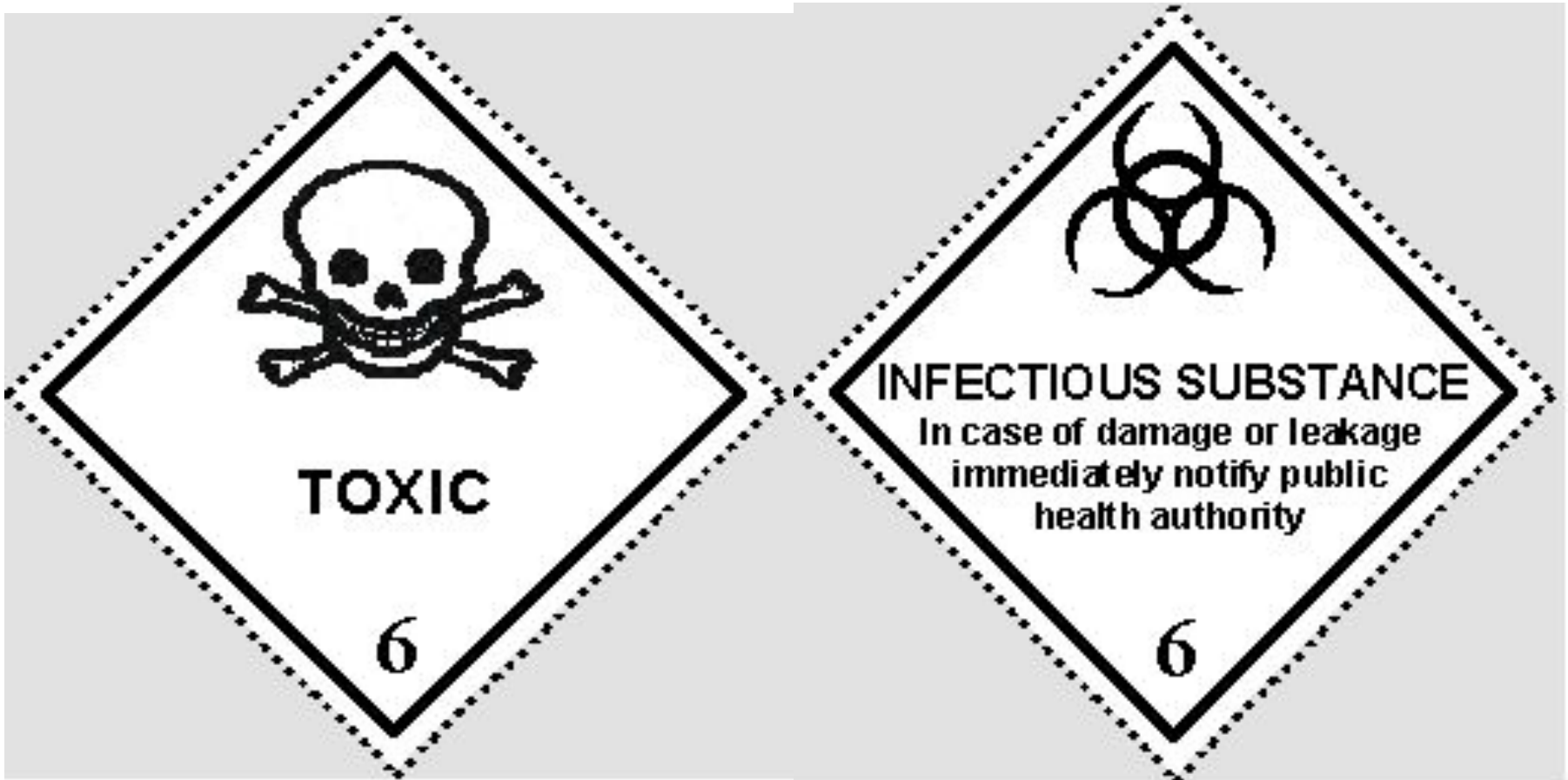
“ORGANIC PEROXIDES”

Are thermally unstable and exude heat whilst undergoing decomposition.

LIABLE TO EXPLOSIVE DECOMPOSITION, BURN RAPIDLY, SENSITIVE TO IMPACT OR FRICTION, REACT DANGEROUSLY WITH OTHER SUBSTANCES OR CAUSE DAMAGE TO EYES.

CLASS 6

“TOXIC & INFECTIOUS SUBSTANCES”



CLASS 6.1

“TOXIC SUBSTANCES”

- DYES
- PESTICIDES
- ALKALOIDS
- CARBAMATE PESTICIDES
- ARSENATES & ARSENITES
- ANTI-FREEZE
- PHENOLS
- CYANIDES



INSECTICIDES



ETHYLENE GLYCOL



CHLOROFORM



PESTICIDES



CLASS 6.1

“TOXIC SUBSTANCES”

Pose significant health risks to humans and animals.

Can lead to fatalities or permanent ill health. Some toxins are cumulative, requiring repeated exposure. Other toxins may have delayed effect of days, weeks, months or even years.

CLASS 6.2

“INFECTIOUS SUBSTANCES”

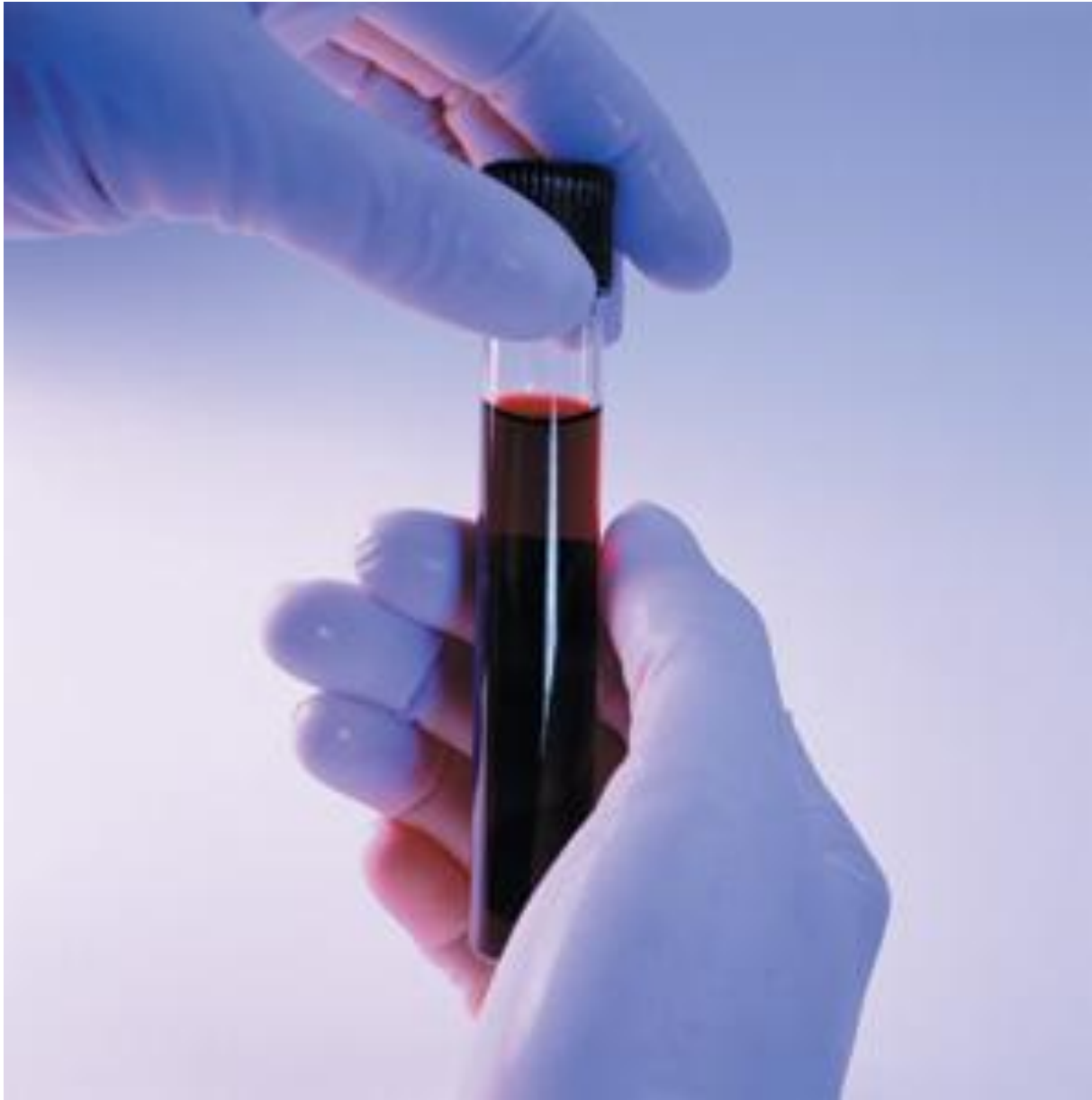
- **CLINICAL WASTE**
- **PATHOLOGY SPECIMENS**
- **HOSPITAL WASTE**
- **EXPIRED DRUGS**
- **SCHEDULED MEDICINES**



INFECTIOUS SUBSTANCES



INFECTIOUS SUBSTANCES



INFECTIOUS SUBSTANCES



CLASS 6.2

“INFECTIOUS SUBSTANCES”

Pose significant health risks to humans and animals.

Can lead to fatalities or permanent ill health from exposure to bacteria, viruses and similar pathogens that cause diseases such as HIV, TB and Cholera.

CLASS 7 : RADIOACTIVE



CLASS 7

RADIOACTIVE

• **URANIUM**

• **PLUTONIUM**

• **RADIUM**

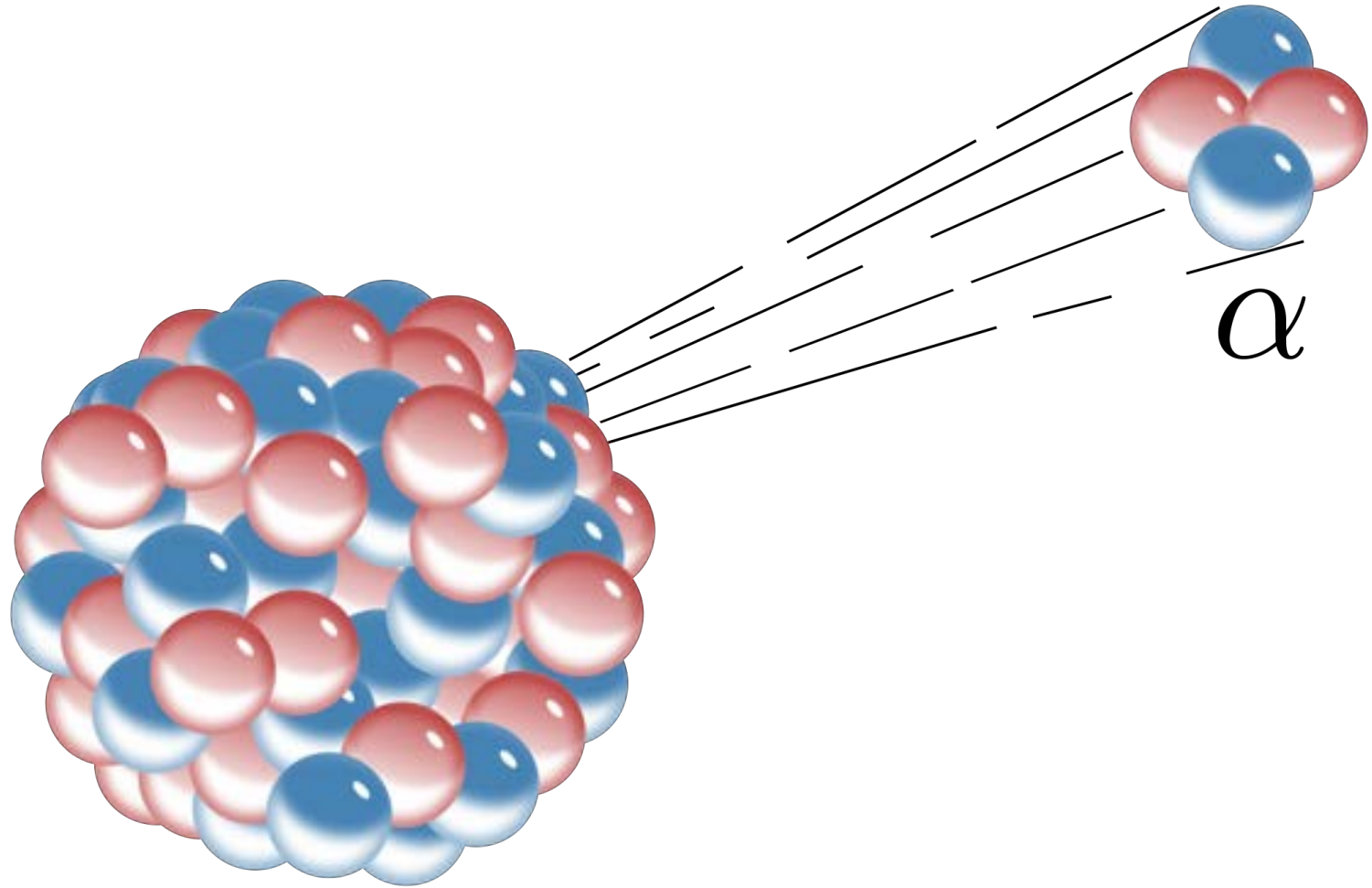
• **POLONIUM**

• **FRANCIUM**

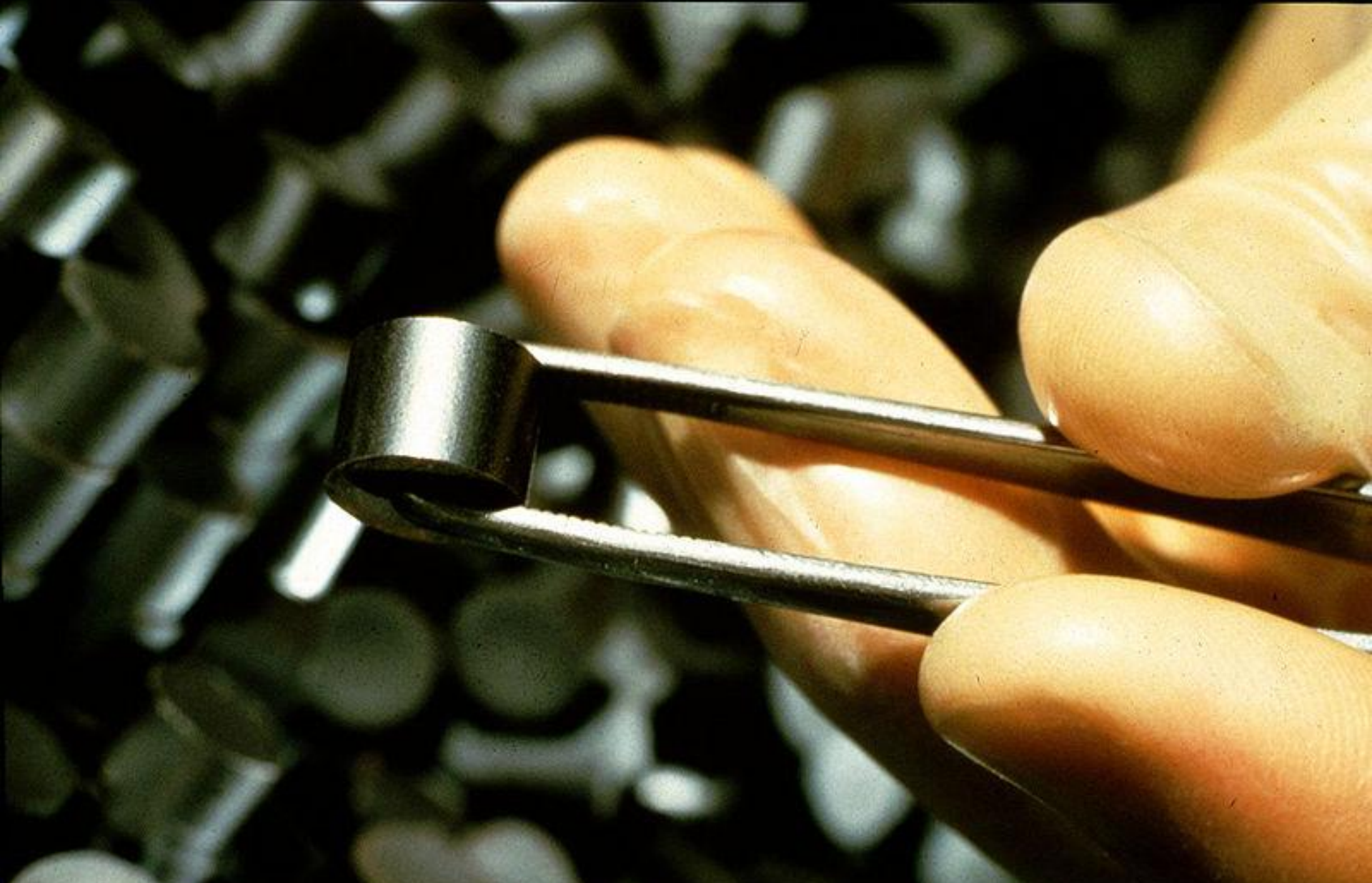
• **ACTINIUM**



CLASS 7 : RADIOACTIVE



NUCLEAR FUEL RODS



Pu



94

244.



Plutonium

Ac



89

227.



Actinium

Po



84

209.

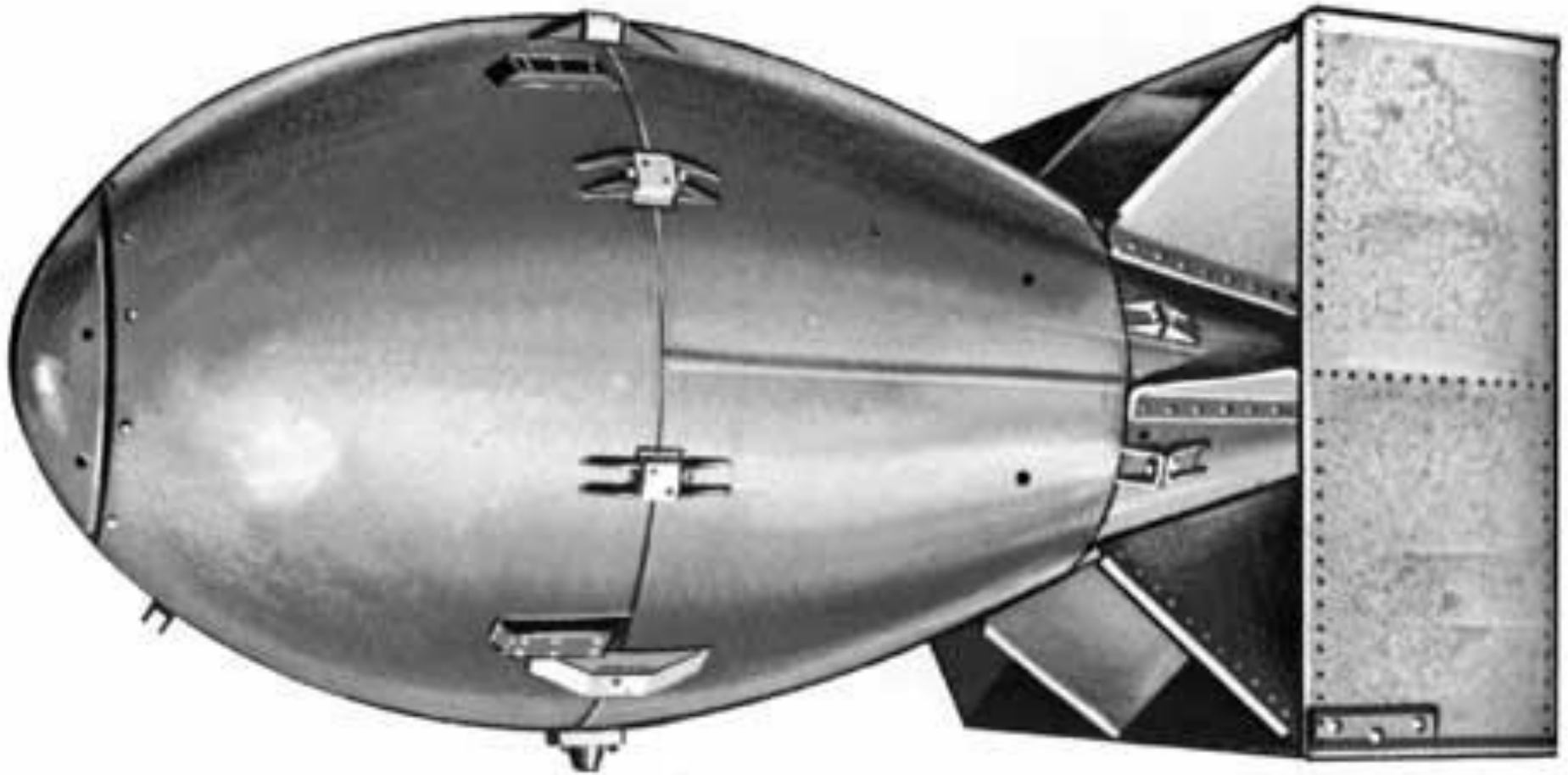


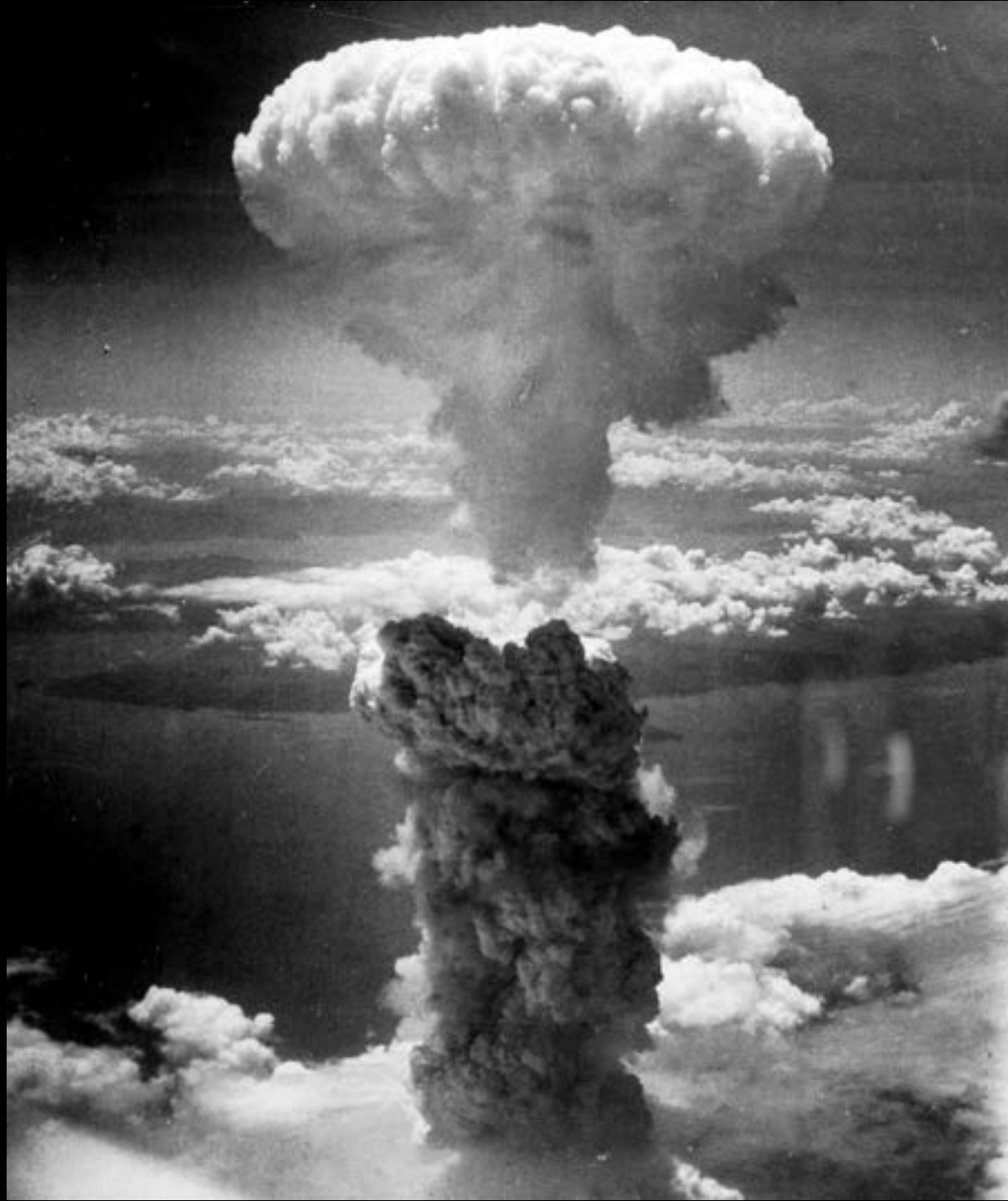
Polonium

ENRICHED URANIUM



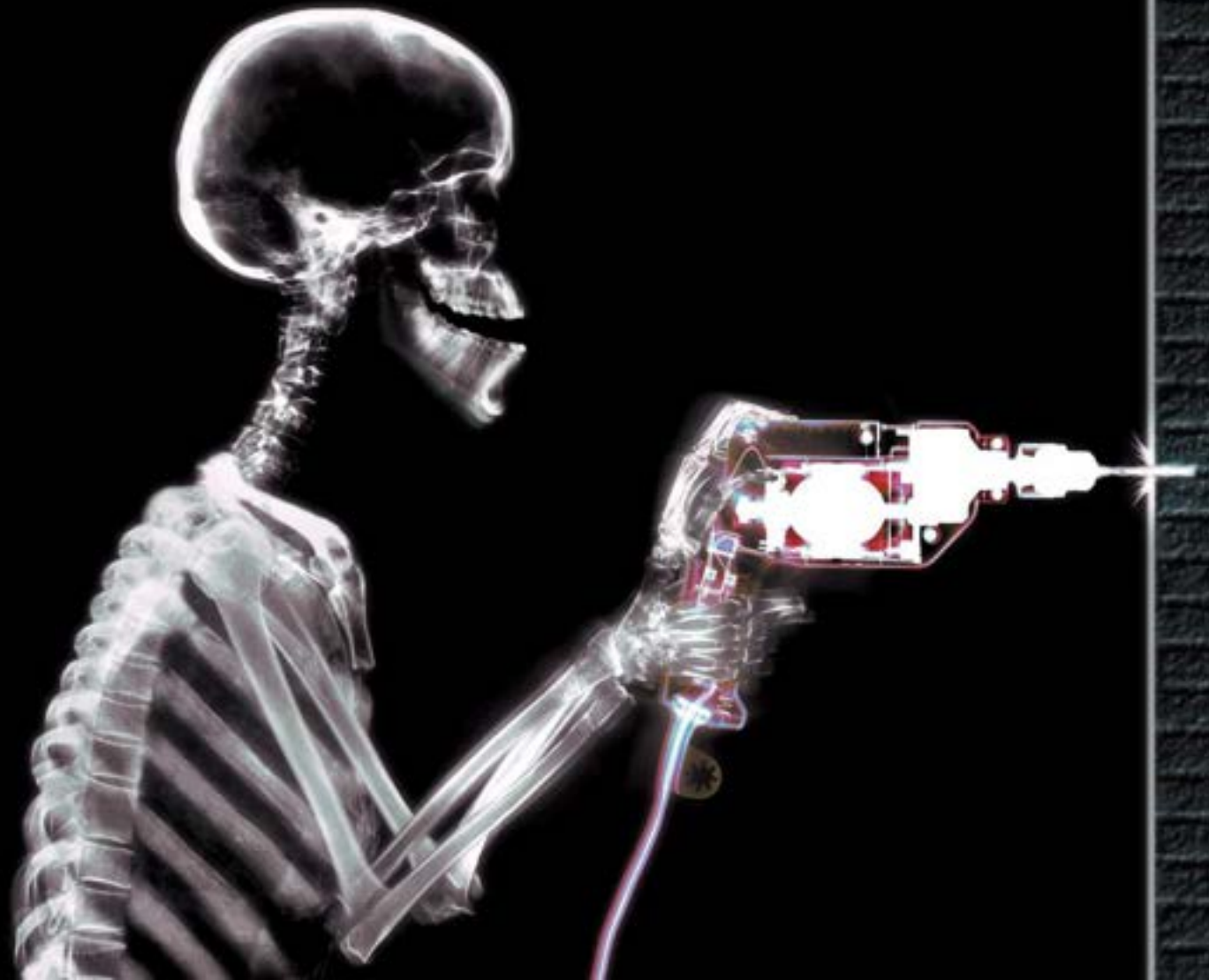
ATOMIC BOMBS







X-RAY MACHINES





CLASS 7 RADIOACTIVE

Whilst undergoing radioactive decay, radio-nuclides emit ionizing radiation which presents potentially severe risks to human health

ANY QUANTITY IS REGULATED

CLASS 8 : CORROSIVES



CLASS 8 : CORROSIVES

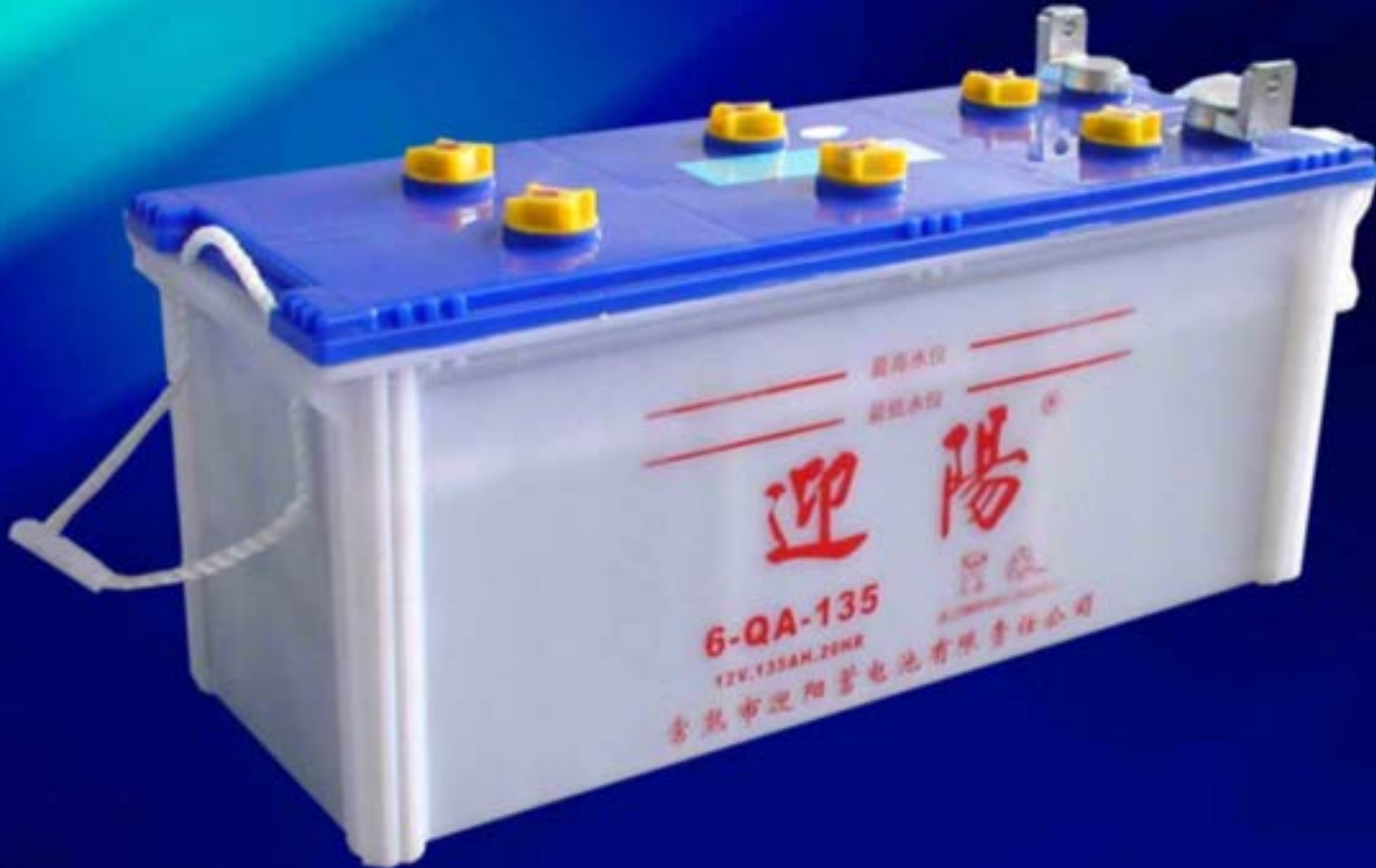
- **ACIDS**

- **SULPHURIC ACID**
- **HYDROCHLORIC ACID**
- **PHOSPHORIC ACID**
- **CITRIC ACID**

- **BASES**

- **POTASSIUM HYDROXIDE**
- **SODIUM HYDROXIDE**
- **CAUSTIC SODA**

SULPHURIC ACID



HYDROCHLORIC ACID



HYDROFLUORIC ACID



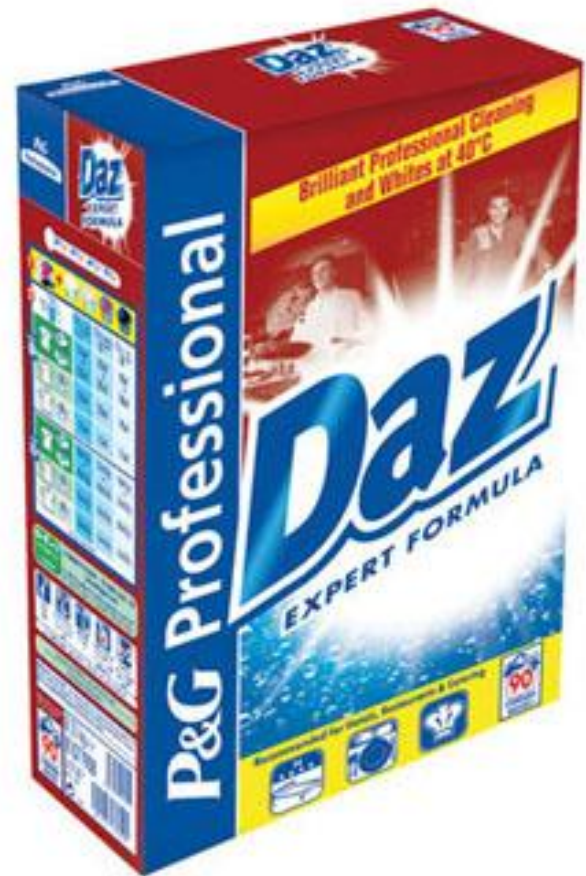
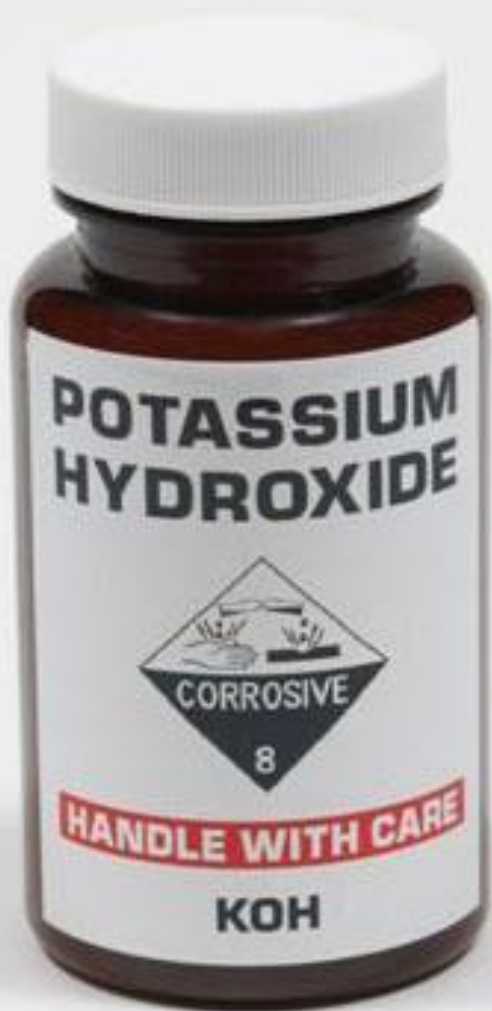
NITRIC ACID



ALKALINE POTASSIUM HYDROXIDE



ALKALINE POTASSIUM HYDROXIDE



ALKALINE CAUSTIC SODA



ALKALINE SODIUM HYDROXIDE

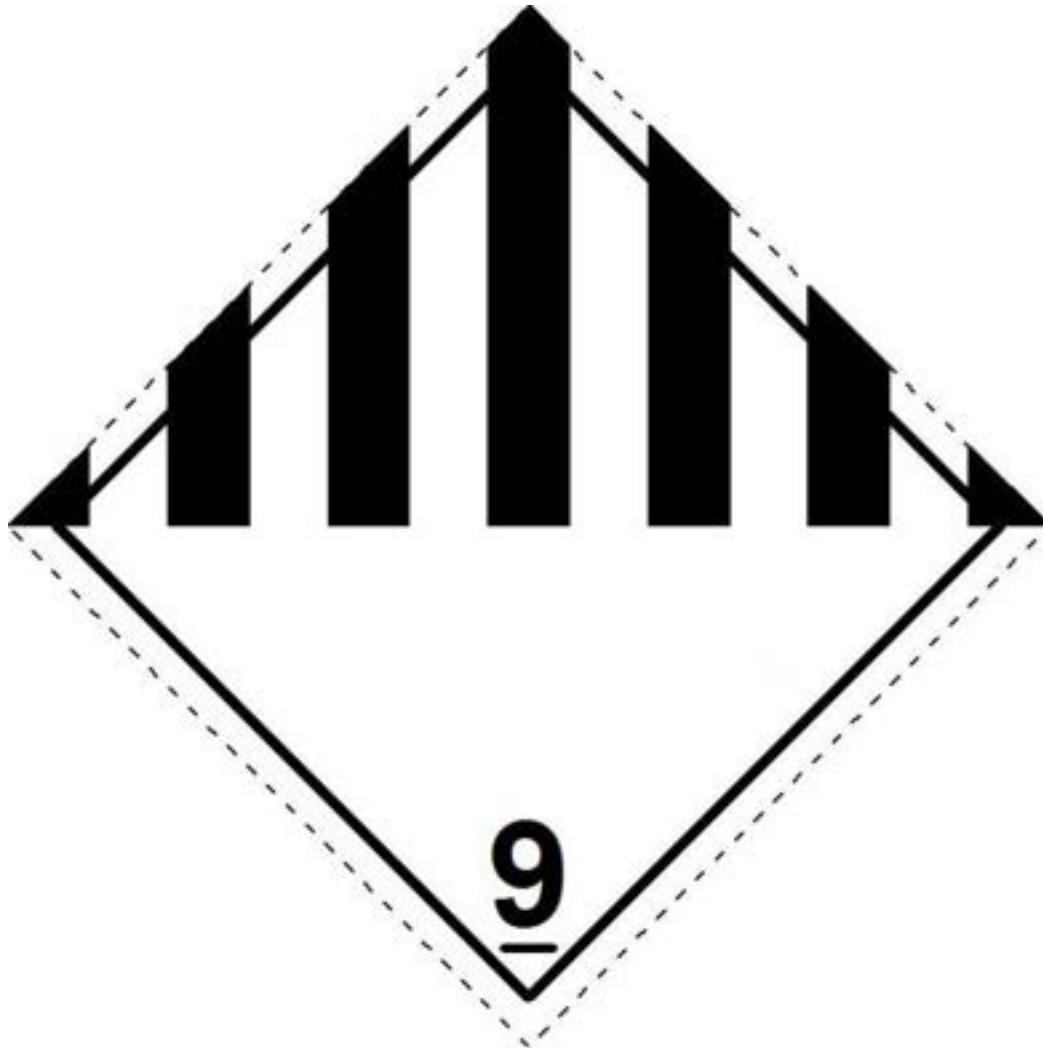


CLASS 8 : CORROSIVES

Corrosives are substances which by chemical action degrade or disintegrate other materials upon contact.

Corrosives cause severe damage when in contact with living tissue or, in the case of leakage, damage or destroy surrounding materials.

CLASS 9
“MISCELLANEOUS”

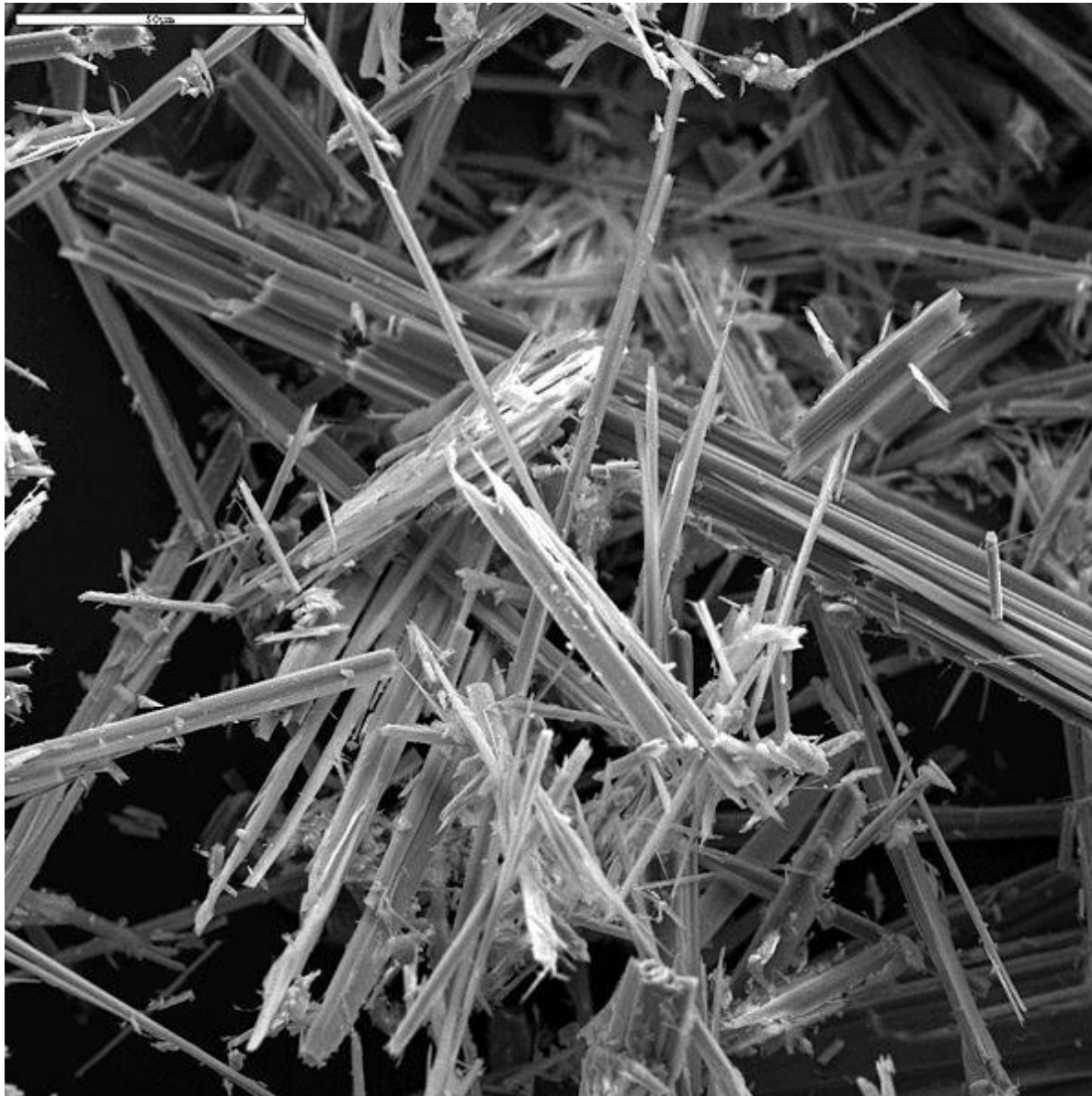


CLASS 9

MISCELLANEOUS

- **ASBESTOS**
- **AIR BAG MODULES**
- **DRY ICE (air transport only)**
- **OILS - POLYCHLORINATED BIPHENYLS**
- **HOT LOADS > 100 DEGREES - LIQUIDS**
- **HOT LOADS > 240 DEGREES - SOLIDS**
- **ENVIRONMENTALLY HAZARDOUS GOODS**
- **CASTOR BEAN PRODUCTS**

ASBESTOS FIBRES



ASBESTOS - WHITE



ASBESTOS - BROWN



ASBESTOS - BLUE



Crocidolite (Blue Asbestos)

OILS WITH P.C.B.'s



AIRBAG INFLATOR MODULE



CASTOR BEANS - UN 2969



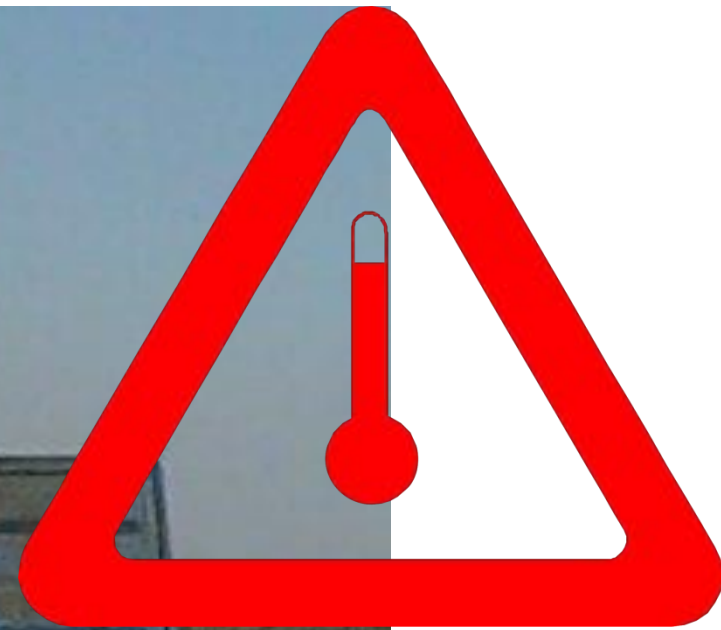
**PESTICIDES
FUNGICIDES
CASTOR OIL
BIO-DIESEL
CHOCOLATE**

FISH MEAL – (FOR FISH FOOD)



UN 2216

BITUMEN- (HOT LOAD)



CLASS 9 HAZARDS

Miscellaneous dangerous goods present a wide array of potential hazards to human health and safety, infrastructure and/ or their means of transport.

Environmental Hazards, burns, chronic diseases, injuries to humans, cancer, birth defects, allergies, discomfort, etc

PART TWO

THE NINE HAZARD CLASSES

CLICK ON THE TAB BELOW TO COMPLETE QUIZ

[CHAPTER TWO QUIZ](#)

PART THREE

HEALTH & SAFETY LAW AND PACKAGING





STORAGE OF DANGEROUS GOODS



UNAUTHORISED ENTRY PROHIBITED

“DANGEROUS GOODS”

**ARE USUALLY MANUFACTURED,
PACKAGED, HANDLED AND STORED
IN A REGISTERED WORKPLACE
SOMEWHERE IN SOUTH AFRICA**

**THIS MAKES THESE GOODS
SUBJECT TO
OCCUPATIONAL HEALTH AND SAFETY
REGULATIONS**



labour

Department:
Labour

REPUBLIC OF SOUTH AFRICA



DUTIES OF: EMPLOYERS

TO PROVIDE A SAFE WORKPLACE

FOR ALL EMPLOYEES, VISITORS,
CONTRACTORS OR NEIGHBOURS

TO INFORM EMPLOYEES OF ALL
HAZARDS AND RISKS, INCLUDING

“DANGEROUS GOODS”



the doj & cd

Department:
Justice and Constitutional Development
REPUBLIC OF SOUTH AFRICA

THE CONSEQUENCES:

CRIMINAL PROCEEDINGS

CIVIL ACTIONS AND LAWSUITS

REPUDIATED INSURANCE CLAIMS

LOSS OF PRODUCTIVITY

LOSS OF LIFE – (police / DoL)

INJURIES AND LOST MAN HOURS

BAD PUBLICITY (news)



OR JAIL...
...OR BOTH!

IDENTIFY & CLASSIFY?

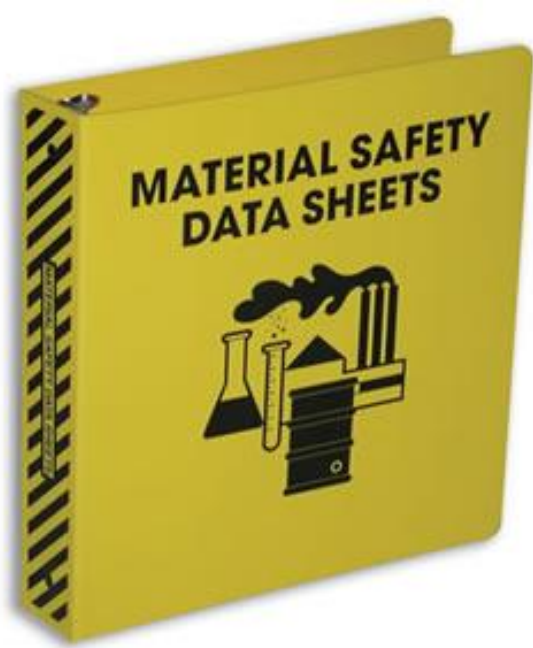
Same as for TRANSPORT:

SANS 10228: 2012

UN NUMBER / HAZARD CLASS?

HANDLING?

- Is the substance handled and stored as per the MSDS?
 - Is correct PPE used ?



MSDS?

**MATERIAL SAFETY
DATA SHEET**



PPE?

PERSONAL PROTECTIVE EQUIPMENT



EMPLOYERS MUST ENSURE:

that the HCS in storage or distributed are **properly identified, classified and handled...**

that a **container or a vehicle** in which an HCS is transported is clearly **identified, classified and packed in UN-Approved Packaging...**







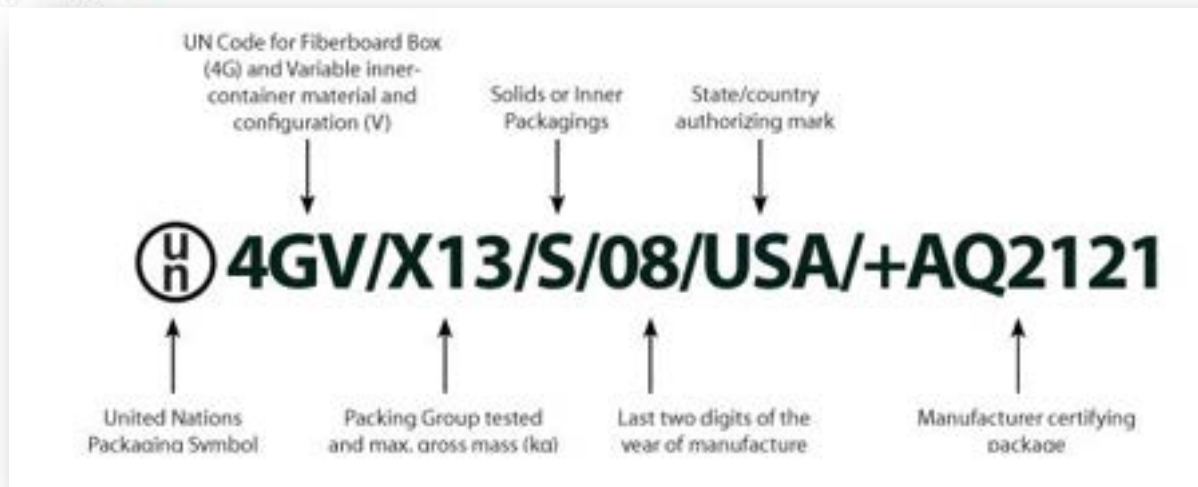
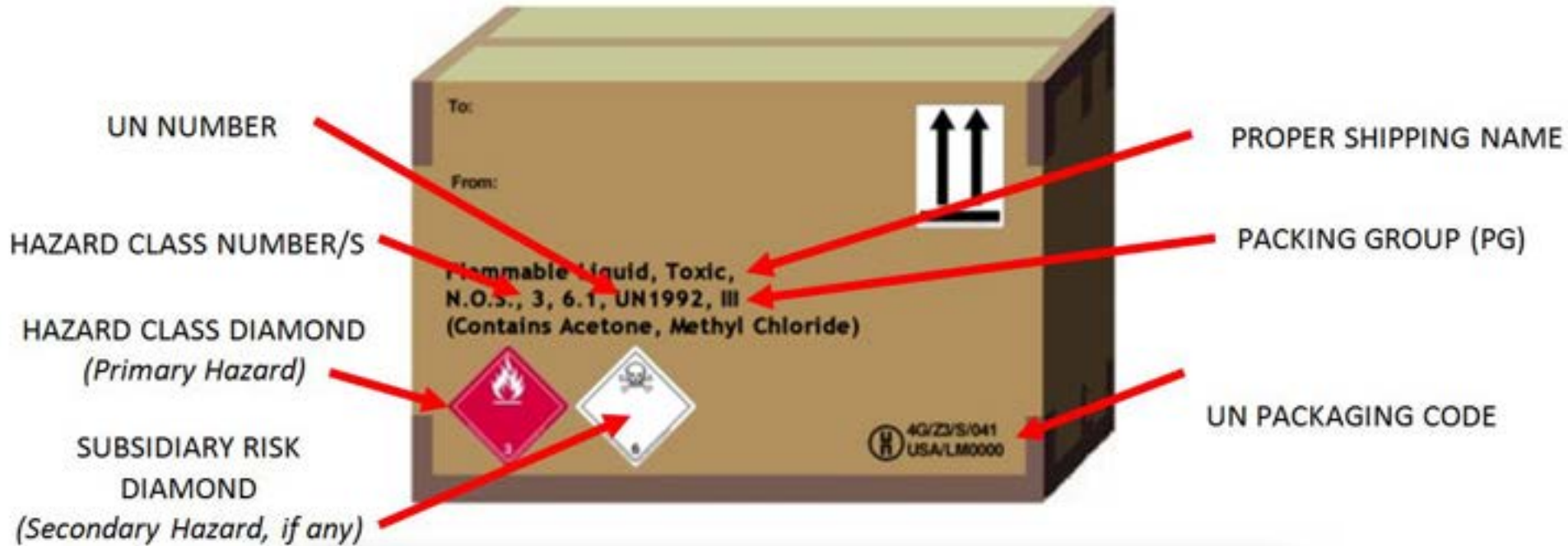
UN-APPROVED CONTAINERS IN SA?

Labelled and packed as per
SANS 10229





UN PACKAGING CODE



Read the label
before use & use
only when the
label is present.
Do not use if the
label is missing or
illegible.

8181E

CORROSIVE

8

MARINE POLLUTANT

6HA
GB/



6HA1/X1.5/250/99
GB/0212

VEHICLES

UNDER

REGULATION 14:

OHS-HCS REGULATIONS

- Is the HCS handled as per **MSDS?**
- Is correct **PPE** used by **Driver?**



PART THREE

PACKAGING REQUIREMENTS

CLICK ON THE TAB BELOW TO COMPLETE QUIZ

CHAPTER THREE QUIZ

PART FOUR

REGULATION OF DANGEROUS GOODS

C/S 49(F) & 54 R/W Sec 87 R/W Reg 27

or such other charge as the Prosecutor may bring in regard to or in respect of the offence

ATLAS AND ELIZABETH BONDS

WHITE HUNDAI LOV

OPERATOR OF DANGEROUS GOODS
DID NOT ENSURE THAT THE
DRIVER HAS PROP CATEGORY (O) TO TRANSPORT
DANGEROUS GOODS

ZAT 232GP

16.00

Date and place you are personally to appear in court

Date of Trial	10 November 11	Place of Trial	BOZBURA	Court	T
---------------	----------------	----------------	---------	-------	---

Date and place where admission of guilt fine may be paid to avoid appearance in court

Admission of guilt fine of	R2500	may be paid, in which case consent must be made on or before the payment date
----------------------------	-------	---

Bozburg Metropolitan Municipality

**BEFORE ANYONE
TRANSPORTS ANY GOODS:**

The question to ask is:

**Are the goods “listed” in
SANS 10228 as being
“DANGEROUS GOODS”**

STEPS TO FOLLOW:

STEP ONE

DO THE GOODS HAVE A...

- UN NUMBER?
- PROPER SHIPPING NAME?
 - HAZARD CLASS?
- SUBSIDIARY RISK CLASS?
 - PACKING GROUP (PG)?

**IF THE ANSWER IS
“NO”**

TRANSPORT THEM AS

**“NORMAL GOODS”
(No Regulations Apply)**

WHERE TO LOOK FOR THE INFORMATION?

- LABELS ON PACKAGES
 - MSDS – SECTION 14
 - DELIVERY NOTES
 - INTERNET
- CONTACT SUPPLIERS OR MANUFACTURERS

LABELS ON PACKAGES

To:

From:

**CAN YOU
IDENTIFY?**



**Flammable Liquid, Toxic,
N.O.S., 3, 6.1, UN1992, III
(Contains Acetone, Methyl Chloride)**



4G/Z3/S/041
USA/LM0000

MSDS

SECTION 14

“TRANSPORT INFORMATION”

SECTION 14: Transportation

Shipping Name (CFR):	Sodium cyanide, Solid
Hazard Class (CFR):	6.1
Additional Hazard Class (CFR):	NA
Packaging Group (CFR):	I
UN ID Number (CFR):	UN# 1689
Shipping Name (IATA):	Sodium cyanide, Solid
Hazard Class (IATA):	6.1
Additional Hazard Class (IATA):	NA
Packaging Group (IATA):	I
UN ID Number (IATA):	UN# 1689

IF THE ANSWER IS

“YES”

ESTABLISH:

HOW MANY UN No's?

HOW MANY UN NUMBERS?

1

> 1 (2+)

"SINGLE
LOAD
RULES"

"MIXED
LOAD
RULES"

NOW GO TO

STEP TWO

STEP TWO

“SINGLE LOADS”

ONLY ONE UN NUMBER IS IDENTIFIED
TO BE TRANSPORTED

STEP TWO –
(SINGLE LOADS)
“QUANTITY”

MEASURED AS -

LIQUIDS: LITRES/VOLUME

GAS/SOLIDS: KILOGRAMS

LITRES =

(“FULL WATER VOLUME”)
OF THE WHOLE CONTAINER



ULLAGE

Product = 200ℓ
but
Volume = 210ℓ



ALWAYS USE THE FULL TANK SIZE FOR “LITRES”

VOLUME: 33,000

LOAD: 32,000



NOTIONALLY EMPTY

*empty but not clean,
or not certified clean.*

NOTIONALLY EMPTY

**DRUMS, TANKS, CYLINDERS,
CANS, BOTTLES**

MUST BE TREATED AS

“FULL”

**WHEN ESTABLISHING
THE QUANTITY OF GOODS**

SINGLE LOADS

SO FAR, YOU HAVE
PERFORMED **2** STEPS

1. GOODS IDENTIFIED / CLASSIFIED
2. QUANTITY (kg or litres/volume)

STEP THREE

“SINGLE LOADS”

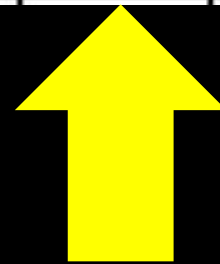
Column “6”

SANS 10231: 2014

EXEMPT QUANTITY

“TABLE C.1”

1	2	3	4	5	6	7	8	9	10	11
UN No.	Proper shipping name	Class	Pack- ing group	Subs. risk	Ex- empt quan- tities	F	P, B, L and O provisions			
							P	B	L	O



EXEMPT QUANTITY

“Quantity of dangerous goods which, if not exceeded in the total load, is exempt from the requirements of this standard”

EXEMPT QUANTITY

“SULPHURIC ACID”

1	2	3	4	5	6	7	8	9	10	11
UN No.	Proper shipping name	Class	Pack- ing group	Subs. risk	Ex- empt quan- tities	F	P, B, L and O provisions			
							P	B	L	O
1830	SULFURIC ACID with >51% acid	8	II		50	20				

EXAMPLE

SULPHURIC ACID

UN 1830 – CLASS 8

QUANTITY

25 Litres/Vol

HOW MUCH IS EXEMPTED IN SANS 10231?



TOTAL QUANTITY (VOLUME)?



IS THIS A REGULATED
DANGEROUS GOODS LOAD
OR A
NORMAL GOODS LOAD?

**IS THIS A REGULATED
DANGEROUS GOODS LOAD**

OR A

NORMAL GOODS LOAD?

REGULATED

**DOES A PLACARD
APPLY
TO THIS LOAD?**

IF SO... WHICH PLACARD?

1830

011 123 4567

080 123 4567



STEPS TO FOLLOW:

MIXED LOAD RULES

STEP ONE:

IDENTIFY > 2 UN No

to be loaded in same vehicle

STEP TWO

“MIXED LOADS”

ESTABLISH WHETHER THE DIFFERENT UN
NUMBERS ARE FROM THE -

SAME CLASS



OR

DIFFERENT CLASSES



STEP TWO: “MIXED LOADS”

SAME CLASS:



e.g.



ARE COMPATIBLE

STEP TWO: “MIXED LOADS”

DIFFERENT CLASSES?



CHECK WHETHER

“COMPATIBLE”

STEP TWO: “MIXED LOADS”

**HOW DO WE CHECK IF
DIFFERENT CLASSES ARE**

“COMPATIBLE”?

**WHAT IS THE GENERAL
SEGREGATION
SPACE BETWEEN
COMPATIBLE GOODS?**

STEP TWO – MIXED LOADS

COMPATIBILITY

SANS 10231: 2014

**CHECK WHETHER THE
PRIMARY HAZARD CLASSES
AND THE SUBSIDIARY RISKS
ARE COMPATIBLE**

COMPATIBILITY

**COMPARE PRIMARY CLASS
(AND SUBSIDIARY RISK CLASS)
AGAINST EACH OTHER ON
THE COMPATIBILITY CHART**

**Note: BOTH CLASSES AND
SUBSIDIARY RISK CLASSES
MUST BE COMPATIBLE**

To:

From:

Flammable Liquid, Toxic,
N.O.S., 3, 6.1, UN1992, III
(Contains Acetone)



PRIMARY & SUBSIDIARY

CLASS	1	2.1	2.2	2.3	3	4.1	4.2	4.3	5.1	5.2	6.1	6.2	7	8 acid	8 base	9
1																
2.1											A	A		A		
2.2													A	A		
2.3													A			
3									A	A						
4.1									A	A						
4.2									A	A						
4.3									A	A						
5.1									A	A			A			
5.2									A	A	A	A			A	
6.1		A													A	
6.2		A													A	
7			A	A					A							
8 acid		A	A							A	A	A				A
8 base															A	
9																

PAGE 33

COMPATIBILITY CHART

**Table “G.1”
in SANS 10231**

**CLASSES ON THE LEFT
(1 TO 9)**

**CLASSES ON THE TOP
(1 TO 9)**

CLASS	1	2.1	2.2	2.3	3	4.1	4.2	4.3	5.1	5.2	6.1	6.2	7	8 acid	8 base	9	
1	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1											A	A		A			
2.2														A			
2.3													A				
3									A	A							
4.1									A	A							
4.2									A	A							
4.3									A	A							
5.1									A	A			A				
5.2									A	A					A		
6.1		A													A		
6.2		A													A		
7			A	A					A								
8 acid		A	A							A	A	A				A	
8 base															A		
9																	

CLASS 1 - 9

CLASS 1 - 9

CLASS	1	2.1	2.2	2.3	3	4.1	4.2	4.3	5.1	5.2	6.1	6.2	7	8 acid	8 base	9
1																
2.1											A	A		A		
2.2													A	A		
2.3													A			
3									A	A						
4.1									A	A						
4.2									A	A						
4.3									A	A						
5.1						A	A	A	A	A						
5.2						A	A	A	A	A						
6.1		A														
6.2		A														
7			A	A												
8 acid		A	A													
8 base																
9																

**NOTE 8 "ACID"
AND 8 "BASE"**



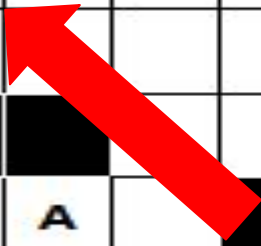
**WHITE BLOCK =
“COMPATIBLE”**

***CLASSES ARE ALLOWED
TOGETHER ON THE SAME
VEHICLE***

(ONE DRIVER)

(NOTE: with 100mm space)

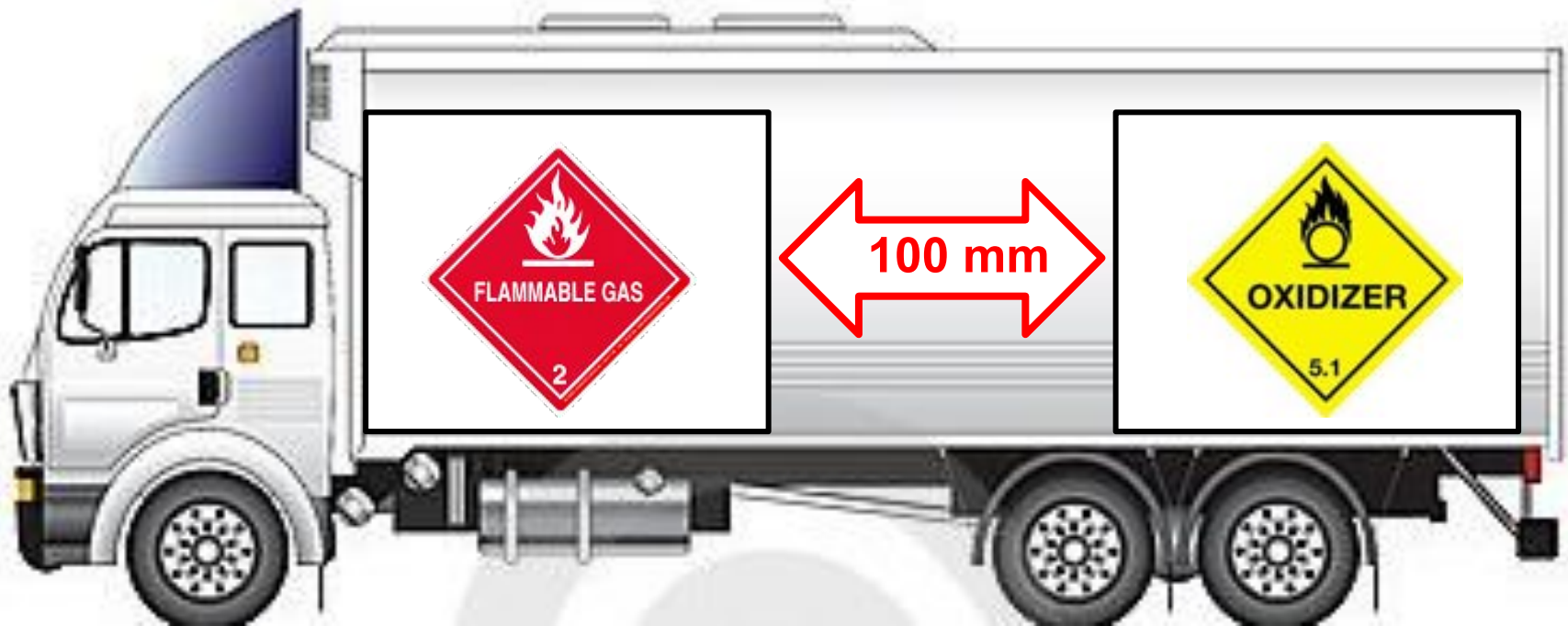
CLASS	1	2.1	2.2	2.3	3	4.1	4.2	4.3	5.1	5.2	6.1	6.2	7	8 acid	8 base	9
1																
2.1											A	A		A		
2.2													A	A		
2.3													A			
3									A	A						
4.1									A	A						
4.2									A	A						
4.3									A	A						
5.1					A		A	A					A			
5.2							A	A						A		
6.1		A														
6.2		A														
7			A						A							
8 acid		A	A							A						A
8 base															A	
9																



SEGREGATION SPACE



WHITE BLOCK “COMPATIBLE”

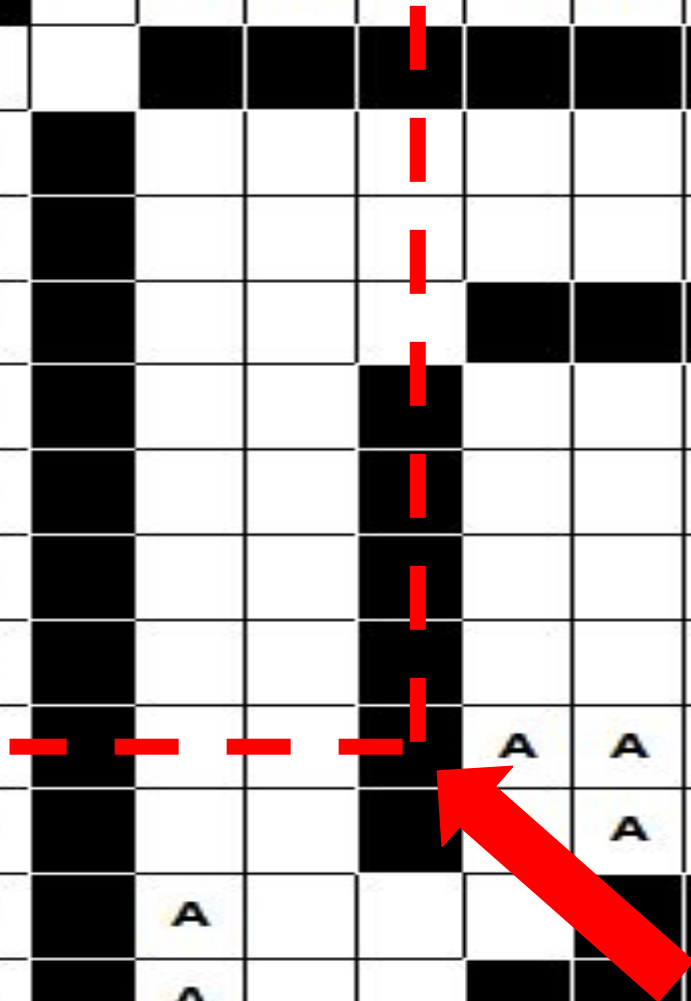
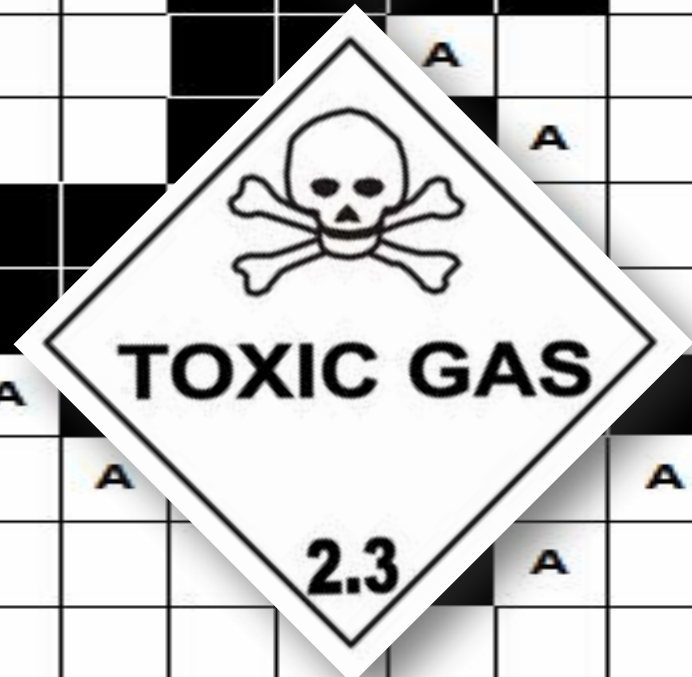


**BLACK BLOCK =
“NOT COMPATIBLE”**

***CLASSES ARE NOT
ALLOWED TOGETHER ON
THE SAME VEHICLE,***

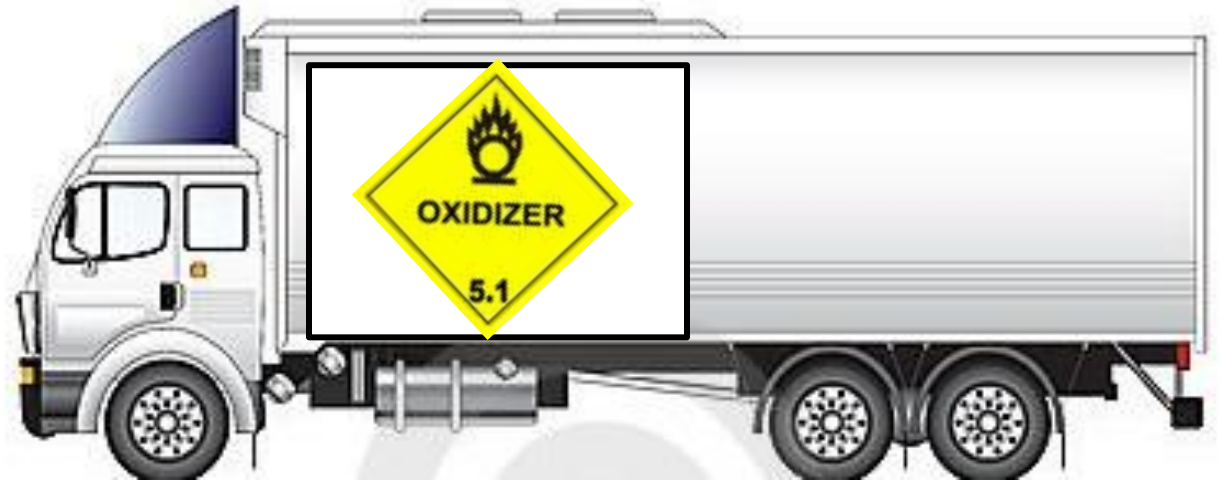
= TWO SEPARATE DRIVERS

CLASS	1	2.1	2.2	2.3	3	4.1	4.2	4.3	5.1	5.2	6.1	6.2	7	8 acid	8 base	9
1																
2.1														A		
2.2																
2.3																
3									A							
4.1									A	A						
4.2									A	A						
4.3									A	A						
5.1						A	A	A	A				A			
5.2						A	A	A						A		
6.1		A														
6.2		A														
7			A	A					A							
8 acid		A	A							A					A	
8 base														A		
9																



BLACK BLOCK

“NOT COMPATIBLE”



“A” INSIDE WHITEBLOCK

“SEPARATE BY 1m”

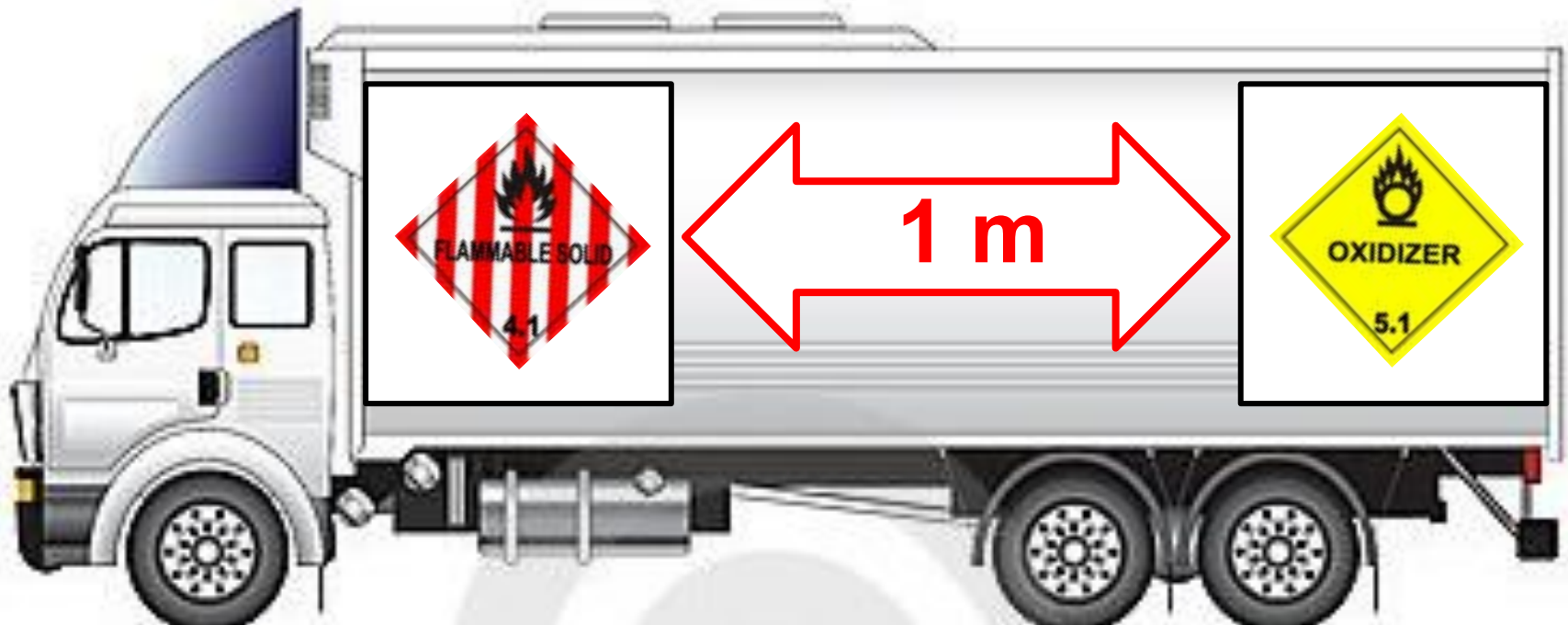
***CLASSES ARE ALLOWED
TOGETHER ON THE SAME
VEHICLE, BUT
1 m SPACE***

= ONE DRIVER

CLASS	1	2.1	2.2	2.3	3	4.1	4.2	4.3	5.1	5.2	6.1	6.2	7	8 acid	8 base	9
1																
2.1											A	A		A		
2.2													A	A		
2.3													A			
3									A	A						
4.1									A	A						
4.2									A	A						
4.3									A	A						
5.1					A	A	A						A			
5.2								A						A		
6.1		A														
6.2		A														
7			A						A							
8 acid		A	A							A						A
8 base														A		
9																



WHITE BLOCK “A”
COMPATIBLE,
SEPARATE 1m



STEP THREE –
(MIXED LOADS)

“QUANTITY”

MEASURED AS -

LIQUIDS: LITRES/VOLUME

SOLIDS: KILOGRAMS

STEP FOUR

“MIXED LOADS”

“CALCULATE”



MIXED LOAD

“1000” FORMULA

$$A = Q \times F$$

A is the “ANSWER”

Q is the “QUANTITY”

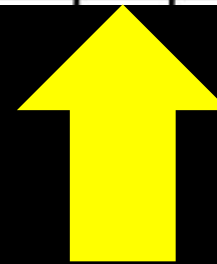
F is the “FACTOR”

(Table C.1 - SANS 10231: 2010)

THE “F” FACTOR

“TABLE C.1”




1	2	3	4	5	6	7	8	9	10	11
UN No.	Proper shipping name	Class	Pack- ing group	Subs. risk	Ex- empt quan- tities	F	P, B, L and O provisions			
							P	B	L	O



**DO THE
EXERCISE ON
PAGE 34
OF THE
TEST**

CLASS EXERCISE

Page 36 of MANUAL

UN No	1944	1823	1202
SHIPPING NAME	MATCHES	SODIUM HYDROXIDE	DIESEL
CLASS	4.1 	8 	3 
CLASS NAME	FLAMMABLE SOLID	CORROSIVE	FLAMMABLE LIQUID
PG	III	II	III
QUANTITY	150	15	450

1	2	3	4	5	6	7	8	9	10	11
UN No.	Proper shipping name	Class	Pack- ing group	Subs. risk	Ex- empt quan- tities	F	P, B, L and O provisions			
							P	B	L	O
1944	MATCHES, SAFETY (book, card or strike on box)	4.1	III		500	2				
1823	SODIUM HYDROXIDE, SOLID	8	II		50	20	11			
1202	GAS OIL or DIESEL FUEL or HEATING OIL, LIGHT, flash point $\leq 60,5^{\circ}\text{C}$ c.c.	3	III		1 000	1				2
	GAS OIL or DIESEL FUEL or HEATING OIL, LIGHT, flash point $> 60,5^{\circ}\text{C}$ c.c.	3	III		1 000	1				

A1	=	Q	X	F	A2	=	Q	X	F	A3	=	Q	X	F
			X					X					X	

A1	=	Q	X	F	A2	=	Q	X	F	A3	=	Q	X	F
			X					X					X	

$$A1 = 150 \times 2 = 300$$

$$A2 = 15 \times 20 = 300$$

$$A3 = 450 \times 1 = 450$$

$$= 1050$$

**IF THE SUM IS $>$ 1000
THE LOAD IS A
“MIXED LOAD”**

MIXED LOAD	
082 255 8401	
084 810 6984	

MIXED LOAD	
OPERATOR TEL ADVICE NUMBER	
SPECIALIST TEL ADVICE NUMBER	

ANSWER = “1050”

(Remember the “1000” Rule)

**IS THIS A REGULATED
SINGLE LOAD
OR A REGULATED
MIXED LOAD?**

IS THIS A REGULATED
DANGEROUS GOODS LOAD
OR A
NORMAL GOODS LOAD?

POWERS AND DUTIES OF INSPECTORS – D.O.T.



transport

Department:
Transport
REPUBLIC OF SOUTH AFRICA



INSPECTORS – D.O.T.

EVALUATE ALL ROLE PLAYERS

**INVESTIGATE PROCEDURES
FOLLOWED BY PERSONS TO
COMPLY WITH REQUIREMENTS
FOR THE TRANSPORT OF
D/GOODS**

INSPECTORS – D.O.T.

KEEP A DATABASE RECORD OF:

- **ALL INCIDENTS INVOLVING D/GOODS**
- **WHICH GOODS ARE REGULATED AND QTY**
- **FREQUENTLY USED ROUTES**
- **OPERATORS**
- **OFFENCES COMMITTED iro D/GOODS**

INSPECTORS – D.O.T.

**MAY ENTER ANY VEHICLE
OR PREMISES WHEREIN IT IS
SUSPECTED THAT D/GOODS
ARE TRANSPORTED:**

- **SEARCH VEHICLES**
- **EXAMINE, EXTRACT, TAKE SAMPLES**
- **OPEN OR HAVE CONTAINERS OPENED**
- **QUESTION OPERATORS**
- **DETAIN NON-COMPLIANT VEHICLES**

TRAFFIC OFFICERS



**MAY ENTER ANY VEHICLE
OR PREMISES WHEREIN IT IS
SUSPECTED THAT D/GOODS
ARE TRANSPORTED:**

INSPECTORS – D.O.T.

- **DEMAND ANY PRESCRIBED DOCUMENT FROM DRIVER, OPERATOR, CONSIGNOR**
- **DEMAND INFORMATION ON SUBSTANCES**
- **WEIGH, COUNT OR MEASURE GOODS**
- **MARK OR SEAL PACKAGES OR VEHICLES**
- **EXAMINE OR COPY LOAD DOCUMENTS**
- **DEMAND EXPLANATION OF DOCUMENTS**
- **INSPECT ANY D/GOODS OPERATION**
- **DEMAND INFORMATION ON OPERATIONS**
- **SEIZE ANY SUBSTANCE OR ITEM THAT MAY BE USED AS EVIDENCE OR PROOF**

TRAFFIC OFFICERS

- DEMAND ANY PRESCRIBED DOCUMENT FROM DRIVER, OPERATOR, CONSIGNOR
- DEMAND INFORMATION ON SUBSTANCES
- WEIGH, COUNT OR MEASURE GOODS
- EXAMINE OR COPY LOAD DOCUMENTS

INSPECTORS – D.O.T.

**MUST PRODUCE HIS / HER
APPOINTMENT CERTIFICATE ON
DEMAND OF ANY AFFECTED
PERSON PRESENT**

INSPECTORS – D.O.T.

MAY NOT

- **OPEN DANGEROUS GOODS PACKAGES**
- **UNLOAD OR DECANT D-GOODS,**

UNLESS...

- **THE OPERATOR IS DULY NOTIFIED,**
- **AUTHORISED BY LOCAL AUTHORITY,**
- **QUALIFIED PERSON SUPERVISES**

TRAFFIC OFFICERS

MAY NOT

- OPEN DANGEROUS GOODS PACKAGES
- UNLOAD OR DECANT D-GOODS,

UNLESS...

- THE OPERATOR IS DULY NOTIFIED,
- AUTHORISED BY LOCAL AUTHORITY,
- QUALIFIED PERSON SUPERVISES
- **D/GOODS INSPECTORATE NOTIFIED**

PART FOUR

REGULATION OF

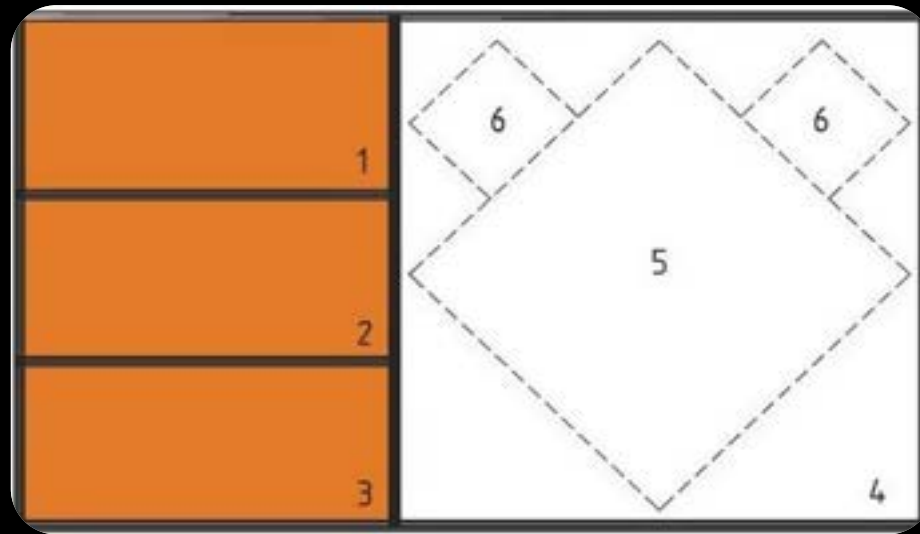
DANGEROUS GOODS

CLICK ON THE TAB BELOW TO COMPLETE QUIZ

CHAPTER FOUR QUIZ

PART FIVE

PLACARDING OF VEHICLES

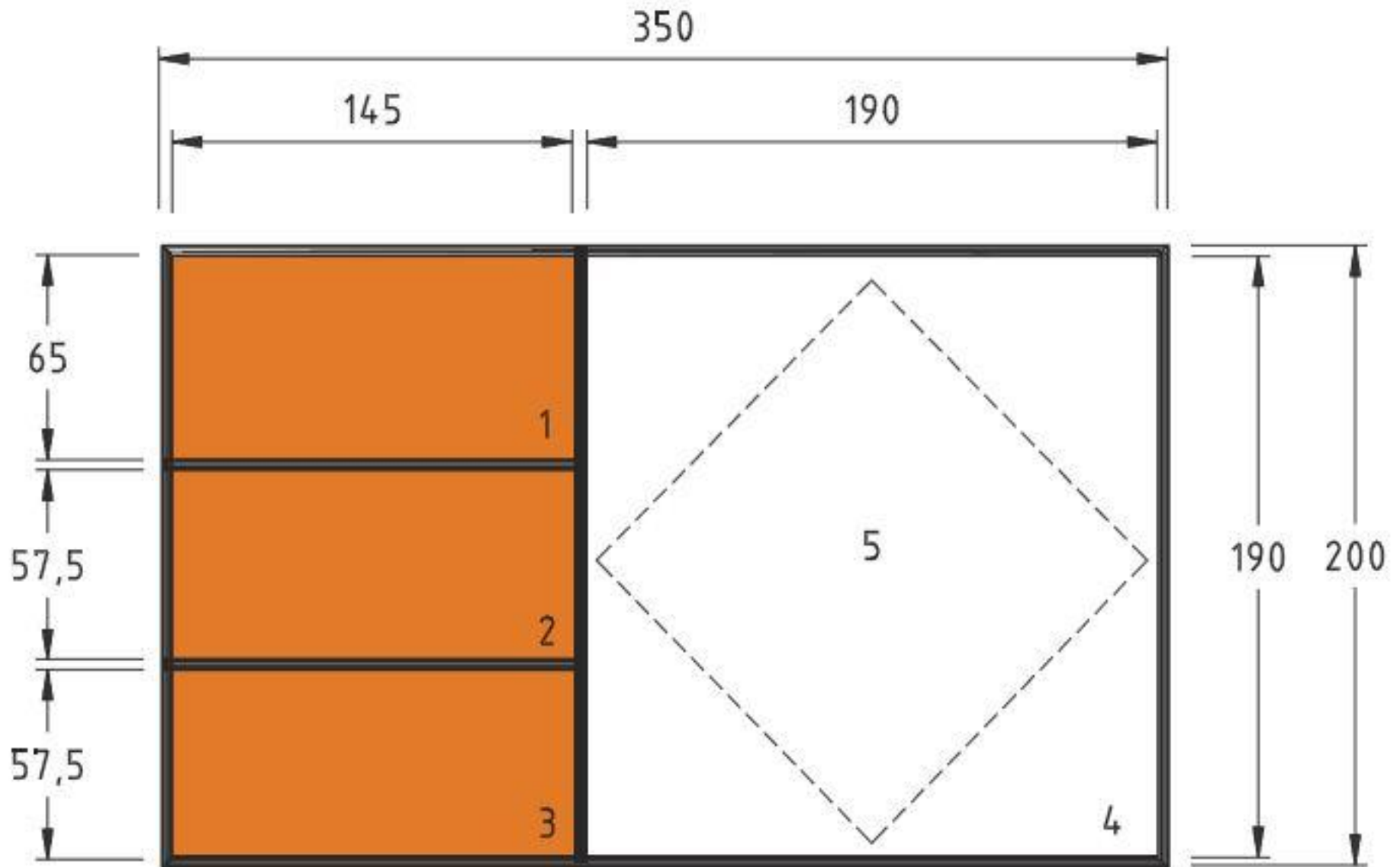


**MINIMUM SIZE OF
PLACARDS?**

VEHICLES

UNDER 3.5 TONS

Dimensions in millimetres

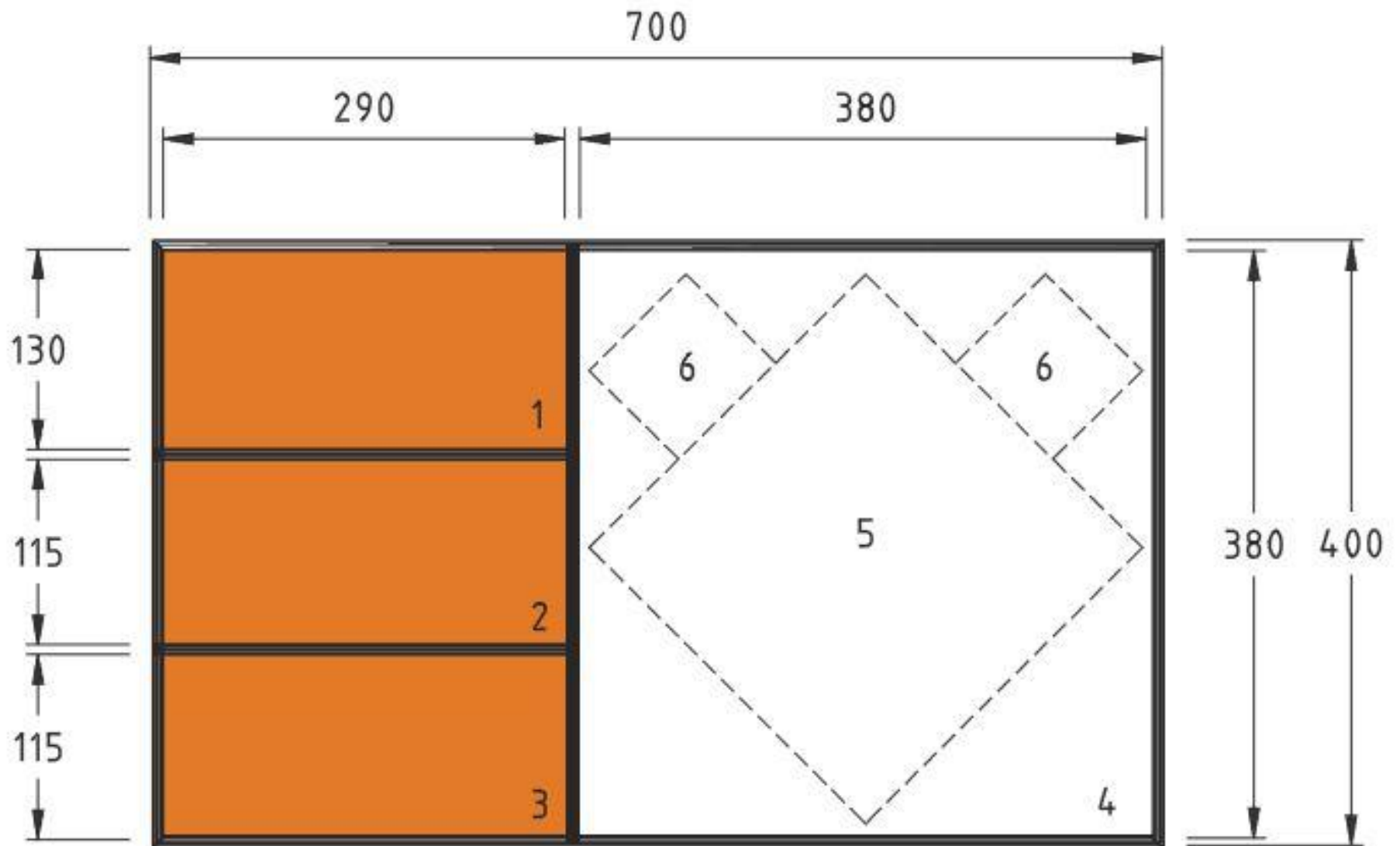




**MINIMUM SIZE OF
PLACARDS?**

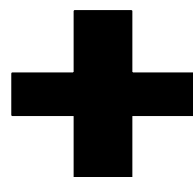
**VEHICLES
OVER 3.5 TONS**

Dimensions in millimetres



MIXED LOAD PLACARDS

MORE THAN 1 HAZARD CLASS



1208
CLASS
3



1340
CLASS
4.3

**MIXED
LOAD**

DANGEROUS





2012

EMERGENCY RESPONSE GUIDEBOOK

A Guidebook for First
Responders During
the Initial Phase of a
Dangerous Goods/
Hazardous Materials
Transportation Incident



ID Guide Name of Material
No. No.

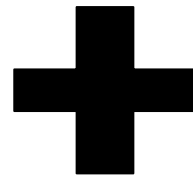
1203 128 Petrol
1204 127 Nitroglycerin, solution in alcohol,
with not more than 1%
Nitroglycerin
1206 128 Heptanes
1207 130 Hexaldehyde
1208 128 Hexanes
1208 128 Neohexane
1210 129 Ink, printer's, flammable
1210 129 Printing ink, flammable
1210 129 Printing ink related material
1212 129 Isobutanol
1212 129 Isobutyl alcohol
1213 129 Isobutyl acetate
1214 132 Isobutylamine
1216 128 Isooctenes
1218 130P Isoprene, inhibited
1218 130P Isoprene, stabilized
1219 129 Isopropanol
1219 129 Isopropyl alcohol
1220 129 Isopropyl acetate
1221 132 Isopropylamine
1222 130 Isopropyl nitrate
1223 128 Kerosene

ID Guide Name of Material
No. No.

1228 131 Mercaptans, liquid, flammable,
toxic, n.o.s.
1229 129 Mesityl oxide
1230 131 Methanol
1230 131 Methyl alcohol
1231 129 Methyl acetate
1233 130 Methylamyl acetate
1234 127 Methylal
1235 132 Methylamine, aqueous solution
1237 129 Methyl butyrate
1238 155 Methyl chloroformate
1239 131 Methyl chloromethyl ether
1242 139 Methyl dichlorosilane
1243 129 Methyl formate
1244 131 Methylhydrazine
1245 127 Methyl isobutyl ketone
1246 127P Methyl isopropenyl ketone,
inhibited
1246 127P Methyl isopropenyl ketone,
stabilized
1247 129P Methyl methacrylate monomer,
inhibited
1247 129P Methyl methacrylate monomer,
stabilized
1248 129 Methyl propionate

MIXED LOAD PLACARDS

SAME CLASS & ERG, MOST HAZARDOUS



1208

ERG 128

PG III

1203



1203

ERG 128

PG II

MIXED LOAD PLACARDS

SAME CLASS & ERG, MOST HAZARDOUS



+



1817

ERG 137

PG III

1830



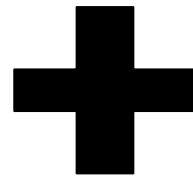
1830

ERG 137


PG II

MIXED LOAD PLACARDS

SAME CLASS, DIFFERENT ERG No



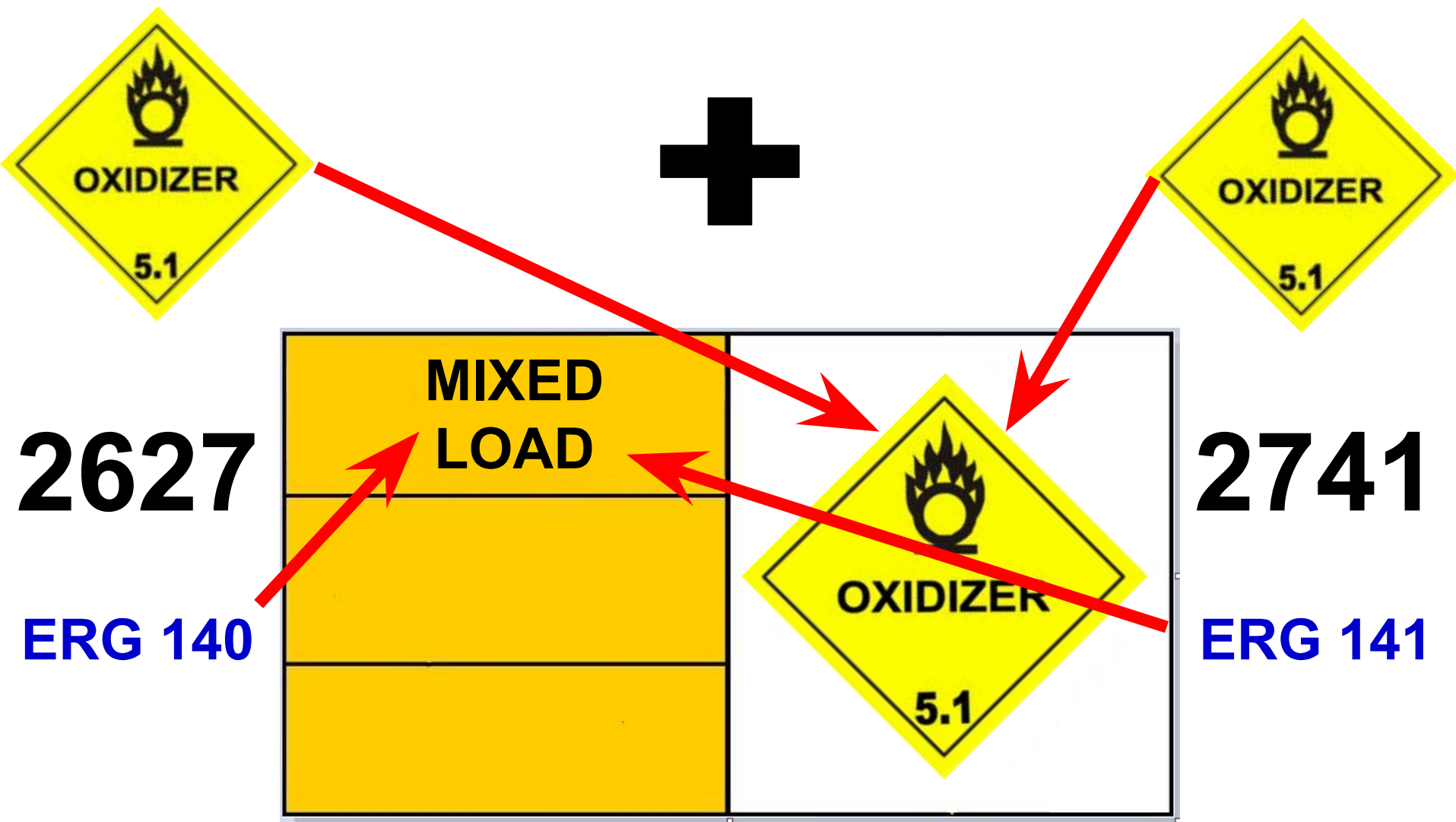
1090
ERG 127

MIXED LOAD	

1230
ERG 131

MIXED LOAD PLACARDS

SAME CLASS, DIFFERENT ERG No



INCIDENTS

vital that the **first responder** to a dangerous goods incident is able to **quickly identify the load on a vehicle**, so as to pass on accurate information to other responders (EMS).

PLACARDS

(HAZCHEM BOARDS)

THREE TYPES:

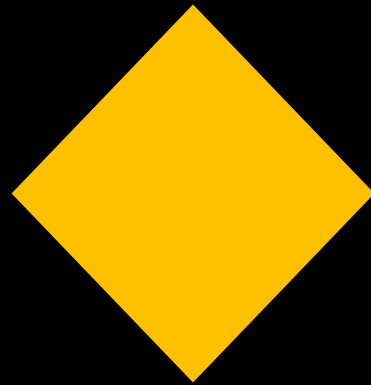
- ***D/GOODS PLACARDS***
- ***DANGER WARNING DIAMOND***
- ***SPLIT PLACARDING***

DANGEROUS GOODS PLACARD



A board with separate, delineated zones for goods identification, telephonic advice numbers and the appropriate hazard class diamond

DANGER WARNING DIAMOND



**An orange diamond that is
displayed on the front of the
vehicle**

(loaded with dangerous goods).

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

CONTAINERS AND SPLIT PLACARDING

SEA FREIGHT OR CROSS-BORDER
ON ALL 4 SIDES



CONTAINERS AND SPLIT PLACARDING

SEA FREIGHT OR CROSS-BORDER



CONTAINERS AND SPLIT PLACARDING

SEA FREIGHT OR CROSS-BORDER



CONTAINERS AND SPLIT PLACARDING

SEA FREIGHT OR CROSS-BORDER



CONTAINERS AND SPLIT PLACARDING

SEA FREIGHT OR CROSS-BORDER



GENERIC PLACARDS

ANY / COMBINATIONS OF PETROLEUM-BASED PRODUCTS

un 1202 **DIESEL**

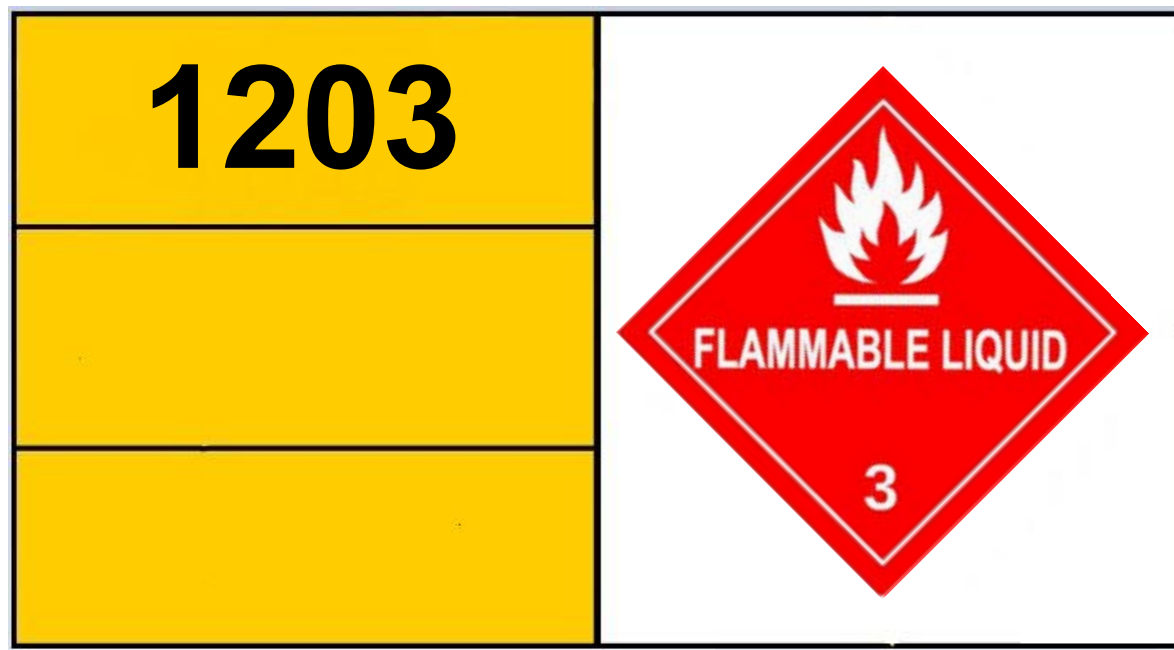
1203 **PETROL (PG II)**

1863 **AVIATION FUEL**

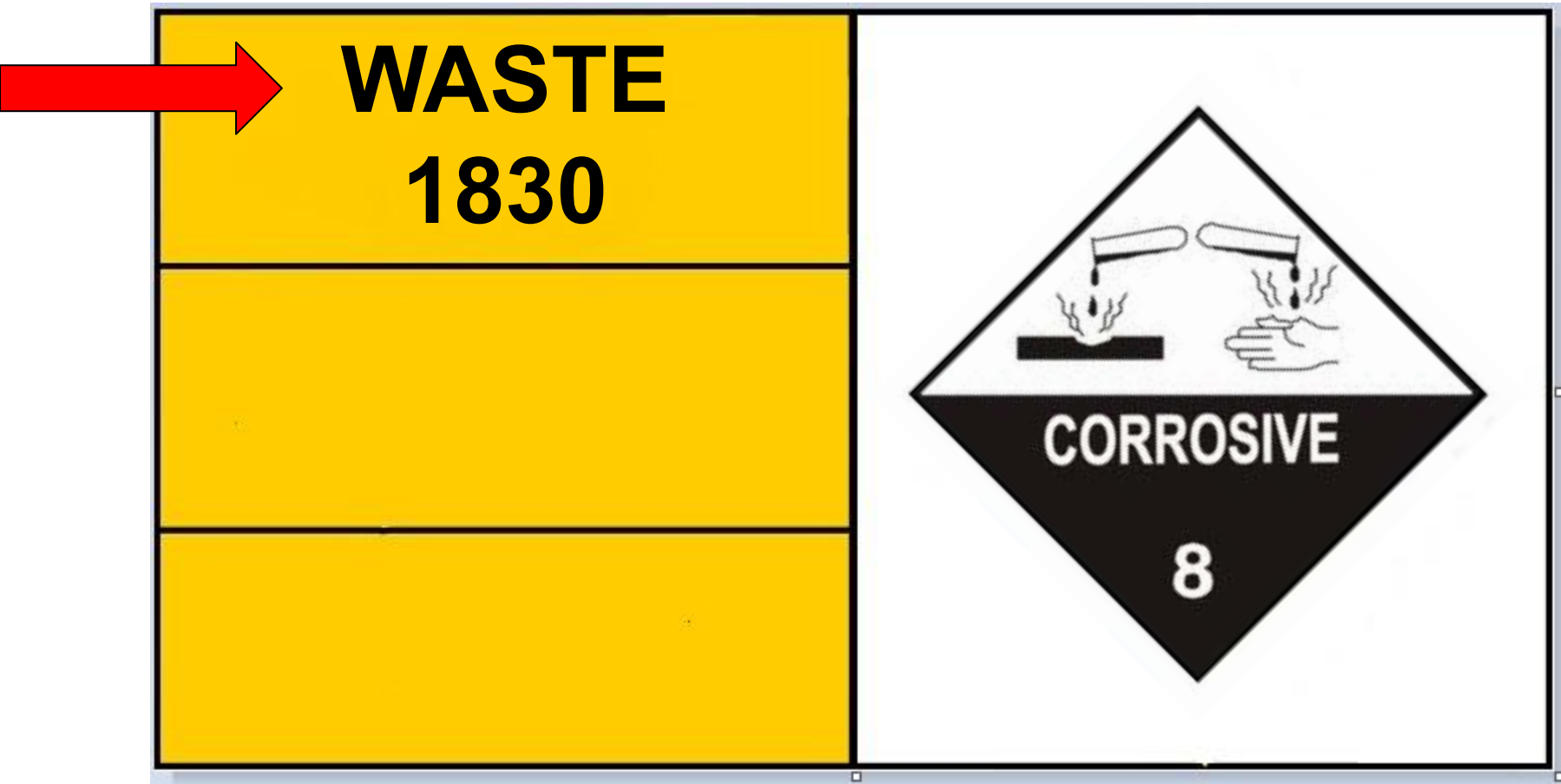
1223 **PARAFFIN**

ERG

128



CLASSIFIED WASTE PLACARDS



OFFENCES

THE CURRENT TREND?



FOR ANY LOAD!!!

DO NOT USE THE OLD
“MULTILOAD PLACARDS!”



IS ILLEGAL AND NO LONGER
IN USE FOR PAST 7 YEARS +

OFFENCES

**FAIL TO DISPLAY ACCURATE
PLACARDS THAT MATCH LOADS**

**FAIL TO DISPLAY PLACARDS IF
GOODS OVER EXEMPT QTY**

**TO DISPLAY ANY PLACARDS
WHEN VEHICLE IS EMPTY**

**WHICH TYPE OF
D/GOODS VEHICLES
DO NOT
REMOVE PLACARDS
AFTER
OFFLOADING?**



4.5

**WHEN MUST
D/GOODS VEHICLES
DISPLAY
OR
REMOVE
SIGNAGE?**

DRIVERS MUST DISPLAY PLACARDS

• WHEN LOADED WITH D/GOODS

• SINGLE LOADS EXCEED EXEMPT QTY

• MIXED LOADS EXCEED “1000”

DRIVERS MUST REMOVE PLACARDS

- **WHEN ALL GOODS OFFLOADED**
- **S / LOADS UNDER EXEMPT QTY**
- **MIXED LOADS ARE UNDER “1000”**

R 35,000



NO PLACARDS!!!

**HOW MANY PLACARDS
MUST BE DISPLAYED?**

= THREE

(Per Vehicle)

1 – LEFT

1 – RIGHT

1 – REAR / BACK

REMEMBER!!!!

**REVERSE OR REMOVE PLACARDS
AND ORANGE DIAMOND (FRONT)**

**WHEN OFFLOADED, OR
GOODS ARE UNDER EXEMPT QTY**

NOTE:

DOES NOT APPLY TO TANKERS







METALS

Group (Pty) Ltd

MULTILOAD

011 902-3821

083 450 2091



[REDACTED] GP



HUGHES EXT 12

FLOORS DIRECT
The leaders in wood and laminate flooring
011 928 4888 Cor North Road Rd & Buxton Str | Electric Park

YXX225 GP

80

MULTILOAD

DANGEROUS

011 958 4881

011 979 1596

MULTILOAD

082 958 4331

SCHEUREN
VERBODEN TOEGANG

011 979 1536



80



MIXED
LOAD
082 854 7053
024 914 2500
021 071 8042
021 071 8074





2794
011 741 3600
079 507 8343
0800 172 743

A diamond-shaped hazard sign with a black border and a white background. It features a black silhouette of a person and a hand, with the word "CORROSIVE" written below.

Skyjacks Tailifts 011-397-8783



GP





WHERE IS THE LOAD?

**MIXED
LOAD**

OF U.S. TELEPHONE SERVICE

0118273151

OF U.S. TELEPHONE SERVICE

0833029167



DANGEROUS

**MIXED
LOAD**

OPERATOR TELEPHONE ADVICE

0118273151

29167



DANGEROUS



ACK 1356T

3077

80

toll road pass

WARNING

*It is not only a **criminal offence** to use **inaccurate placards**, but the practice also **endangers emergency services response teams and the public** when **incorrect response measures** are applied to an incident.*

*This may result in **serious injury or fatalities** due to **incorrect application** of **fire-fighting techniques** and **spill recovery measures**.*

**DO NOT USE THIS AS THE
ANSWER FOR ALL LOADS!**



**IS
ILLEGAL, IRRESPONSIBLE,
AND INACCURATE**

PLACARD ZONES

ZONE A

ZONE B

ZONE C

ZONE D

ZONE - A

ZONE A

**GOODS
IDENTIFICATION
ZONE**

ZONE – “A”

SINGLE LOADS

UN NUMBER

ZONE A

**GOODS
IDENTIFICATION
ZONE**

ZONE – “A”

MIXED LOADS - SAME ERG

**UN NUMBER
OF STRONGEST**

ZONE A

**GOODS
IDENTIFICATION
ZONE**

ZONE – “A”

MIXED LOADS

**MIXED
LOAD**

**GOODS
IDENTIFICATION
ZONE**

ZONE – “A”

CLASSIFIED WASTE LOADS

**WASTE
1830**

**GOODS
IDENTIFICATION
ZONE**

ZONE “B”

24 HOURS, 7 DAYS A WEEK, 365

ZONE B

**OPERATOR
TELEPHONIC
ADVICE
ZONE**

ZONE “B”

24 HOURS, 7 DAYS A WEEK, 365

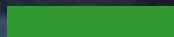
**1 OR 2 NUMBER/S
1 MUST BE LANDLINE**

**OPERATOR
TELEPHONIC
ADVICE
ZONE**

NO OPERATOR NUMBER?



1789	
(011) 976 2115 +27 (11) 976 2115	



ZONE “C”

24 HOURS, 7 DAYS A WEEK, 365

ZONE C

**SPECIALIST
TELEPHONIC
ADVICE
ZONE**

ZONE “C”

24 HOURS, 7 DAYS A WEEK, 365

**1 OR 2 NUMBER/S
1 MUST BE LANDLINE**

**SPECIALIST
TELEPHONIC
ADVICE
ZONE**

ZONE “D”

SINGLE LOADS

HAZARD CLASS
DIAMOND
ZONE



ZONE D

ZONE "D"

MIXED LOADS

HAZARD CLASS
DIAMOND
ZONE



ZONE D

PLACARD “RULES”

- ***PLACARDS & DOCUMENTS MUST ALWAYS BE ACCURATE***
- ***FULL PLACARD, INCLUDING THE BLACK BORDER VISIBLE***
- ***DIRECTLY FIXED OR SUPPORTED BY A PERMANENT FRAME***

PLACARD “RULES”

- **CLEAN, LEGIBLE AND NOT DEFACED AT ALL TIMES**
 - **THREE PLACARDS PER VEHICLE**
 - **AFFIXED AS FOLLOWS:**
 - 1 – REAR**
 - 1 – RIGHT**
 - 1 – LEFT**
- CLEARLY VISIBLE – ROAD-SIDE**



06518

Melonke

103
HAZARDOUS
SUBSTANCE

065124

V6K822 GP



10

021307



Driven by Passion



80

NLN570 GP

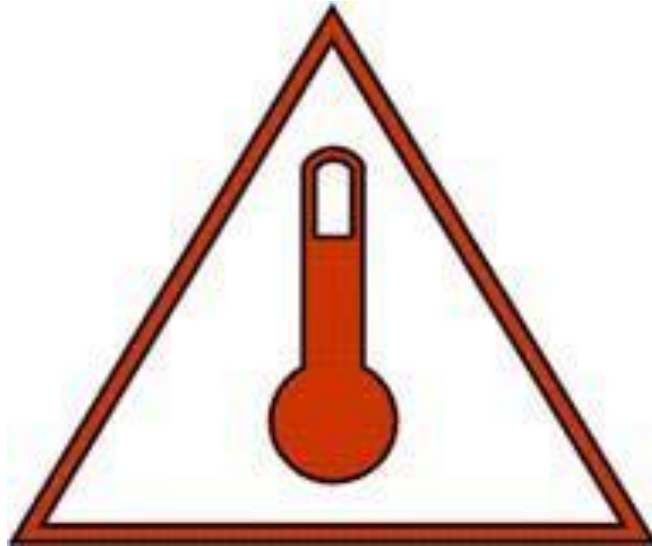


Energy

ELEVATED TEMPERATURE LOADS

LIQUIDS HOTTER THAN 100° Celsius

SOLIDS HOTTER THAN 240° Celsius



LEFT, RIGHT AND REAR

PART FIVE

PLACARDING OF VEHICLES

CLICK ON THE TAB BELOW TO COMPLETE QUIZ

CHAPTER FIVE QUIZ

TRANSPORT EMERGENCY CARD

card that lists the hazards and emergency information for a material being transported and that is intended for use by the driver during an incident, or by emergency services, if required.

TRANSPORT EMERGENCY CARD

IS VALID FOR

3 YEARS

FROM DATE OF ISSUE

TRANSPORT EMERGENCY CARD

ABBREVIATIONS

TREC - SANS 10232-4

South African Bureau of Standards

TREMCARD - ®CEFIC

European Council of Chemical Manufacturers Federation

TRANSPORT EMERGENCY CARD

MUST BE KEPT IN THE

DESIGNATED

SPACE

ONLY WHEN LOAD IS ON VEHICLE

TREMCARD / TREC

GENERAL INFORMATION:

*DRIVERS MUST UNDERSTAND
THE INFORMATION AND
INSTRUCTIONS ON THE
TRANSPORT EMERGENCY CARD*

DRIVERS MUST READ CARDS

Code	3
UN	
HAZ	
UN	1170

LOAD

Flammable liquid (flash point less than 23°C or boiling point not exceeding 35°C)

Name of substance(s): STDFLEX

- Colourless liquid or paste
- Usually with perceptible odour
- Miscible with water

NATURE OF DANGER

- Highly flammable
- May form explosive mixture with air, particularly in empty unsealed receptacles
- May evaporate quickly
- Heating will cause pressure rise, severe risk of bursting and subsequent explosion
- The vapour is heavier than air and spreads along ground
- The vapour may be visible
- The vapour may have toxic effect
- The vapour may have irritant effect on eyes, skin and air passages

PERSONAL PROTECTION

- Protective gloves
- Protective footwear
- Eyewash bottle with clean water

INTERVENTION EQUIPMENT

- Shovel
- Boom
- Sand or other absorbent
- Alternatively, appropriate spill kit

GENERAL ACTIONS BY THE DRIVER

- Stop the engine
- No naked lights, no smoking
- Mark roads with self-standing warning signs and warn other road users or passers-by
- Keep public away from danger area. Keep upright
- Notify police and fire brigade as soon as possible

ADDITIONAL AND/OR SPECIAL ACTIONS BY THE DRIVER

- Any action only if without personal risk
- Stop leaks if without risk
- Contain or absorb leaking liquid with sand or earth or other suitable material
- Avoid direct contact with substance
- Vapour may create explosive atmosphere
- Avoid naked lights
- Prevent fluids entering water courses, sewers, basements and workpits
- If substance has entered a water course or sewer or been spilt on soil or vegetation, inform police
- Warn everybody: Explosion hazard

FIRE (information for the driver in case of fire)

- Do not attempt to deal with any fire involving the load

FIRST AID

- If substance has got into the eyes, immediately wash out with plenty of water. Continue treatment until medical assistance is provided
- Remove contaminated clothing immediately and wash affected skin with soap and water
- Seek medical treatment when anyone has symptoms, especially due to inhalation, swallowing or contact with skin or eyes
- Persons who have inhaled the fumes produced in a fire may not show immediate symptoms
- In case of burns immediately cool affected skin as long as possible with cold water

SUPPLEMENTARY INFORMATION FOR EMERGENCY SERVICES

- Keep container(s) cool by spraying with water if exposed to fire
- Extinguish with water spray or preferably with foam or dry chemical
- Do not use water jet
- Sewers must be covered and basements and workpits evacuated
- Use low-sparking hand tools and explosion-proof electrical equipment

Additional information:

INCLAGRO SA (PTY) LTD
P O BOX 36213
KENILDEPARK
6082

EMERGENCY TELEPHONE: 0800 00 5817

TRANSPORT EMERGENCY CARD - Road Transport

In accordance with SANS 10232-4

UN No	1202
Class	3
Subsidiary risk	
Packing Group	III
ERG No	128

PROPER SHIPPING NAME

DIESEL FUEL

APPEARANCE

Liquid, Light brown, Strong odour

DANGER

•Highly flammable: Easily ignited by heat, sparks or flames •Vapour could form explosive mixture with air •Containers could explode when heated •Vapour explosion hazard indoors, outdoors and in sewers •Vapour could travel to source of ignition and flash back

PERSONAL PROTECTIVE EQUIPMENT

•Protective goggles or face shield •Protective gloves •Protective shoes •Eyewash bottle with clean water

EMERGENCY RESPONSE EQUIPMENT

•Dry chemical or CO2 •Shovel •Sand or other absorbent

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

•No smoking allowed •Warn road users and passers by to keep away from danger area •Keep upwind

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

•Avoid sparks •Warn all persons not to touch damaged packages or spilled material •Warn all persons of explosion hazard •Prevent runoff from entering water courses, sewers and basements

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

•Do not attempt to deal with any major fire that involves the load •Use fire extinguisher on small fire only if it can be done without personal risk

FIRST AID

•Move victim to fresh air •Apply artificial respiration if victim is not breathing •In case of contact with material, immediately flush skin or eyes (or both) with running water for at least 20 minutes •Remove and isolate contaminated clothing and shoes

SPECIAL INFORMATION FOR EMERGENCY SERVICES

•Use water spray, fog or alcohol-resistant foam •Do not use straight streams •Fight fire from maximum distance or use unmanned hose holders or monitor nozzles •Always stay away from ends of tanks

ADDITIONAL INFORMATION**EMERGENCY TELEPHONE NUMBERS** (applicable numbers to be printed here)**PREPARED BY (Company Name to be printed here)**

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

Date: 2010-01-20

Reference: 182-1202-M0012

TRANSPORT EMERGENCY CARD - Road Transport

In accordance with SANS 10232-4

PROPER SHIPPING NAME

DIESEL FUEL

APPEARANCE

Liquid; Light brown; Strong odour

UN No.	1202
Class	3
Subsidiary risk	
Packing Group	III
ERG No	128



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PREPARED BY (Company Name to be printed here)

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

Date: 2010-01-20

Reference: 182-1202-M0012

10177



DANGEROUS GOODS DECLARATION

“DGD”

A document that describes and quantifies the dangerous goods being transported from a consignor to a consignee

DANGEROUS GOODS DECLARATION Consignment Note No: 101 11X				Company Logo (optional)		
Consignor: R A Jones, Jones Warehouse, 100 High Rd, Germiston Tel: 011 100 1000				Operator: B Higgins, Higgins Road freight, 200 South Ave, Germiston Tel: 011 200 2000 Reg. no. vehicle: XYZ 200 GP		
Product manufacturer				Consignee: ABC Chemicals, 300 Marine Drive, Durban Tel: 031 300 3000		
Product owner				Additional information on handling/transport/ storage: The package marked with UN XXXX shall be shaded from sunlight		
Product custodian						
Party contracting the operator: R A Jones, Jones Warehouse, 100 High Rd, Germiston Tel: 011 100 1000						
Shipping name:	UN No:	Haz Clas s:	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>DECLARATIONS</p> <p><i>"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/placarded and in all respects, in proper condition for transport in accordance with the relevant national legislation."</i></p> <p>Where the consignor is not the manufacturer, the declaration is based on information received.</p> <p>Consignor: Product manufacturer / Product owner / Product custodian / Contracting Party that contracts the operator :</p> <p>Signed: <i>R A Jones</i> Date: 2008-03-15</p> <p><i>"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."</i></p> <p>Driver</p> <p>Signed: <i>J K Williams</i> Date: 2008-03-15</p>						



DANGEROUS GOODS DECLARATION

Consignment Note No: 101 11X

Consignor: R A Jones,
Jones Warehouse,
100 High Rd, Germiston
Tel: 011 100 1000



Operator: B Higgins,
Higgins Road freight,
200 South Ave, Germiston
Tel: 011 200 2000



Reg. no. vehicle: XYZ 200 GP



Product manufacturer

Consignee: ABC Chemicals,
300 Marine Drive, Durban
Tel: 031 300 3000



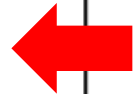
Product owner

Product custodian

**Additional information on
handling/transport/ storage:**

The package marked with UN XXXX shall be shaded from sunlight

**Party contracting
the operator:** R A Jones,
Jones Warehouse,
100 High Rd, Germiston
Tel: 011 100 1000



Shipping name	UN No:	Haz Class	PG	Qty & type of Packaging:	Gross Mass kg	Nett Mass / Vol kg or ℓ
Paint, Flammable	1263	3	III	3 Fibreboard boxes 4 x 5 ℓ each	78	60
Petrol	1203	3	II	6 steel drums	1320	1260

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/placarded 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 / Contracting Party that contracts the operator :

Signed: *RA Jones*

Date: 2008-03-15

"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

Signed: *J K Williams*

Date: 2008-039-15

DGD

Three (3) copies per delivery

May be combined with Invoices

- Consignor (keeps 1 copy)***
- Operator (driver to hand in)***
- Consignee (keeps 1 after delivery)***

Must be kept for 90 days minimum

DESIGNATED SPACE

GENERAL:

A container, of colour orange and marked with the word

DOCUMENTS” in black, which is permanently fixed in a clearly visible space near the centre of the cab so as to be easily accessible from either door or through a broken front window



DOCUMENTS

DESIGNATED SPACE

GENERAL:

METAL OR PLASTIC

PVC TUBES

VINYL OR CANVAS BAGS

ALL OF THE ABOVE ACCEPTED

WARNING

It is a criminal offence to drive a vehicle with tremcards, dgd's and other documents in the "Designated Space" when dangerous goods are not present on the vehicle.



PART SIX

PRESCRIBED DOCUMENTS

CLICK ON THE TAB BELOW TO COMPLETE QUIZ

CHAPTER SIX QUIZ

PART SEVEN

CONSIGNOR: DUTIES



health & safety

CONSIGNOR

*means the “person” who
offers
dangerous goods
for
transport in a vehicle...*

CONSIGNOR

**IS RESPONSIBLE FOR THE
LOADING OF VEHICLES**

PART 4 SANS 10231

**AND
MUST LOAD ACCORDING TO
ALL RELEVANT NATIONAL
LEGISLATION**

CONSIGNOR DUTIES

SANS 10231: 2010

MUST CORRECTLY CLASSIFY GOODS

REMEMBER STEP ONE?

**ENSURE GOODS ARE CORRECTLY
PACKAGED LABELLED (UN
APPROVED)**

**LOADING MAY ONLY BE DONE BY
QUALIFIED PERSONS -
TRAINED IN RELEVANT PROCEDURES**

CONSIGNOR

**MUST TRAIN STAFF AND APPOINT
“QUALIFIED PERSON”
IN WRITING**

**AND KEEP A RECORD OF
ALL SUCH APPOINTEES**

IF CONSIGNOR DOES IT WRONG?

- ***DIFFICULT FOR DRIVERS TO OBEY
TRAFFIC LAWS (FINED/ARRESTED)***

THIS NON-COMPLIANCE DUE TO?

- ***IGNORANCE***
- ***AVOIDING HIGHER INPUT COSTS***
- ***LACK OF RESPECT FOR THE LAW***

CONSIGNOR DUTIES

SANS 10231: 2010

DRIVER MUST BE PROVIDED WITH?

- *SIGNED DGD / DGD'S*
- *TRANSPORT EMERGENCY CARD/S*
- *CORRECT PLACARDS*

WARNING

Drivers and Operators should **refuse** to load **non-compliant loads** of dangerous goods

Acceptance of illegal loads transfers legal liability to Operators and Drivers



PART SEVEN

CONSIGNOR: DUTIES

CLICK ON THE TAB BELOW TO COMPLETE QUIZ

CHAPTER SEVEN QUIZ

PART EIGHT

QUALIFIED PERSON: DUTIES



QUALIFIED PERSON

A person trained to perform a specific task, and nominated by the operator, the consignor or the consignee

QUALIFIED PERSON DUTIES

SANS 10231: 2010

the vehicle is correctly parked for loading or offloading, and **wheel chocks** are in place for heavy vehicles with GVM equal to or **greater than 3500 kg** and are placed appropriately under wheels on **non-steering axles**





DANGER

**ALL DRIVERS
MUST CHOCK WHEELS**

QUALIFIED PERSON DUTIES

SANS 10231: 2010

Vehicle fire extinguishers to be placed where not provided by the loading/offloading point;



QUALIFIED PERSON DUTIES

SANS 10231: 2010

the area is safe, with barricades, where applicable, and the necessary warning signs are clearly displayed



SAFETY

**CHEMICAL
UNLOADING AREA
AUTHORIZED PERSONNEL ONLY**

QUALIFIED PERSON DUTIES

SANS 10231: 2010

the requisite **safety** and **first aid** equipment in accordance with the transport emergency card(s) is provided



QUALIFIED PERSON DUTIES

SANS 10231: 2010

the loading or offloading operation is
conducted in a safe manner and is
not placed at risk by other activities



QUALIFIED PERSON DUTIES

SANS 10231: 2010

load is adequately secured



QUALIFIED PERSON DUTIES

SANS 10231: 2010

that at the offloading site the dangerous goods that correspond with the DGD, can be offloaded in safe conditions,

at which all the necessary safety equipment is provided



QUALIFIED PERSON DUTIES

SANS 10231: 2010

he/she consults with the operator and the consignor on appropriate action with regard to containers with leaks



QUALIFIED PERSON DUTIES

SANS 10231: 2010

A qualified person is required to supervise the transfer of cargo when **overloading** incidents occur en-route.



QUALIFIED PERSON

LOADING REQUIREMENTS

the goods to be loaded are correctly classified, packaged and labeled;



QUALIFIED PERSON

LOADING REQUIREMENTS

the vehicle is suitable for its current purpose
and is clean and fit to load;



QUALIFIED PERSON

LOADING REQUIREMENTS

if goods different from those previously transported by the vehicle 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;

QUALIFIED PERSON

LOADING REQUIREMENTS

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



QUALIFIED PERSON

LOADING REQUIREMENTS

the cargo is undamaged and properly secured



QUALIFIED PERSON

LOADING REQUIREMENTS

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

3291		MIXED LOAD	
082 255 8401		082 255 8401	
084 810 6984		084 810 6984	

QUALIFIED PERSON

LOADING REQUIREMENTS

the driver has the correct transport emergency card(s) in his possession

Emergency Card - Instructions in Writing

Actions

Take immediate first aid measures.
Evacuate the area.

NATURE OF DANGER

Is it flammable?
Is it toxic?
Is it corrosive?
Is it explosive?
Is it radioactive?
Is it a biohazard?
Is it a chemical hazard?
Is it a physical hazard?
Is it a biological hazard?

PERSONAL PROTECTION

Wear eye protection.
Wear gloves.
Wear a respirator.

RESPIRATORY EQUIPMENT

Use a respirator.
Use a self-contained breathing apparatus (SCBA).

GENERAL ACTIONS BY THE DRIVER

Stop the vehicle.
Turn off the engine.
Turn on the emergency flashers.
Warn other drivers.
Evacuate the area.
Call the emergency services.
Provide first aid if necessary.

ADDITIONAL AND/OR SPECIAL ACTIONS BY THE DRIVER

Use the appropriate fire extinguisher.
Use the appropriate spill kit.
Use the appropriate decontamination solution.
Use the appropriate disposal method.

FIRST AID

For all cases, call the emergency services.
For eye contact, flush with water for at least 15 minutes.
For skin contact, remove contaminated clothing and wash with soap and water.
For inhalation, move to fresh air and call the emergency services.

SUPPLEMENTARY INFORMATION FOR EMERGENCY SERVICES

Product name:
Quantity:
Hazardous material:
UN number:
Other information:

EMERGENCY TELEPHONE NUMBERS

Emergency services: 911
Transportation: 1-800-424-9300
Other information: 1-800-424-9300

QUALIFIED PERSON

LOADING REQUIREMENTS

the necessary DGD(s) are made out for the load and supplied to the driver

DANGEROUS GOODS DECLARATION Consignment Note No: 101 11X				Company Logo (optional)		
Consignor: R A Jones, Jones Warehouse, 100 High Rd, Germiston Tel: 011 100 1000				Operator: B Higgins, Higgins Road freight, 200 South Ave, Germiston Tel: 011 200 2000 Reg. no. vehicle: XYZ 200 GP		
Product manufacturer				Consignee: ABC Chemicals, 300 Marine Drive, Durban Tel: 031 300 3000		
Product owner				Additional information on handling/transport/ storage: The package marked with UN XXXX shall be shaded from sunlight		
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
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/placarded 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 / Contracting Party that contracts the operator : Signed: <i>R A Jones</i> Date: 2008-03-15 "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 Signed: <i>J K Williams</i> Date: 2008-03-15						

QUALIFIED PERSON

LOADING REQUIREMENTS

the special P, B, L and O provisions
in annex C are adhered to:

P - PACKAGED GOODS

B - BULK GOODS

L - LOADING / OFFLOADING

O - TRANSPORT OPERATION

QUALIFIED PERSON

OFFLOADING REQUIREMENTS

cargo is correct and undamaged and
there is no obvious spillage



QUALIFIED PERSON

OFFLOADING REQUIREMENTS

the load is refused if he/she is in doubt as to whether the goods can be offloaded without risk



QUALIFIED PERSON

OFFLOADING REQUIREMENTS

the offloading operation does not proceed, if, for any reason, he/she considers it unsafe



QUALIFIED PERSON

OFFLOADING REQUIREMENTS

BULK DELIVERIES

**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**

QUALIFIED PERSON

OVERFILLING A SILO



QUALIFIED PERSON

OFFLOADING REQUIREMENTS

BULK DELIVERIES

the flow can be stopped immediately
in case of leakage / other emergency



QUALIFIED PERSON

OFFLOADING REQUIREMENTS

BULK DELIVERIES

after offloading, the vehicle is free
spillage and all are closed



QUALIFIED PERSON OFFLOADING REQUIREMENTS

AFTER OFFLOADING

**DOCUMENTS TO REFLECT CHANGE
IN LOAD**



QUALIFIED PERSON OFFLOADING REQUIREMENTS AFTER OFFLOADING

TANKERS RETAIN PLACARDING
ARE NOT CERTIFIED
CLEAN



QUALIFIED PERSON OFFLOADING REQUIREMENTS

AFTER OFFLOADING
NO RESIDUE ON VEHICLE AND
VEHICLE FREE OF
CONTAMINATION



QUALIFIED PERSON

CONSIGNEE MUST PROVIDE

UNLESS OTHERWISE AGREED BETWEEN PARTIES



PART EIGHT

QUALIFIED PERSON: DUTIES

CLICK ON THE TAB BELOW TO COMPLETE QUIZ

CHAPTER EIGHT QUIZ

PART NINE

OPERATOR: DUTIES



OPERATE ON A PUBLIC ROAD

***REGISTERED OWNER IS
RESPONSIBLE FOR:***

- ***MANNER A VEHICLE IS DRIVEN***
- ***ROADWORTHINESS***
- ***LICENSE AND REGISTRATION***

THE OPERATOR

**person responsible for the
use of a motor vehicle**

*of any class contemplated in
Chapter VI,*

*and who has been **registered** as
the operator of such vehicle*

THE OPERATOR

**THE OWNER
OF A MOTOR VEHICLE**

IS USUALLY THE OPERATOR

***UNLESS A WRITTEN AGREEMENT
NOMINATES ANOTHER PERSON AS
THE OPERATOR***

THE OPERATOR

MUST BE REGISTERED AS A

DANGEROUS GOODS OPERATOR

***WITH THE RELEVANT LICENSING
AUTHORITY WHERE VEHICLE IS
REGISTERED AND LICENSED***

THE OPERATOR

MUST MAKE SURE THAT AN

OPERATOR CARD

IS DISPLAYED ON VEHICLES

OPERATEURSKAART
RSA

NR. NO.
Reg.-owerh./Reg. auth.

Lisensienr.
Licence no.

Vrt.registernr.
Veh. register no.

NVK NVC

VIN BVM/GVM

Fabrikaat
Make

Kategorie
Category G,D

Naam
Name

Identiteitsnr. 04 / Identity no.

Adres
Address

Vervaldatum/Date of expiry

OPERATOR CARD



OPERATOR DUTIES

- **AGREE ON ROUTE WITH DRIVER**
- **INFORM LOCAL AUTHORITIES ON ROUTE AND PROVIDE FULL INFO ON PRODUCTS IF REQUESTED**
- **ENSURE DRIVER HAS PrDP - D**
- **NOTIFY EMS & POLICE OF ANY INCIDENT INVOLVING VEHICLE**
- **REPLACE OR REPAIR VEHICLE**
- **TRANSFER CARGO AS “INCIDENT”**

OPERATOR DUTIES

***SUBMIT REPORT OF ANY D/G
ROAD INCIDENT TO THE
DEPARTMENT OF TRANSPORT
ON PRESCRIBED FORM
BY FAX TO
(012) 309 3721***

SEE PAGE 69

OPERATOR DUTIES

**IF VEHICLE INVOLVED IN
ACCIDENT**

**WITH RISK OF DAMAGE TO CARGO
CONTAINMENT AREA, MUST BE
SUBMITTED FOR FULL
ROADWORTHY AND COMPLIANCE
INSPECTION**

OPERATOR DUTIES

- *SUPPLY DRIVER WITH SAFETY EQUIPMENT AS PER TREMCARDS AND PROVIDE TRAINING IN USE*
- *ENSURE THAT **INSURANCE** IS IN PLACE FOR CIVIL LIABILITY, RECOVERY OF SPILLS AND REHABILITATION COSTS*

OPERATOR DUTIES

***MUST BE NOTIFIED BY DRIVER
IMMEDIATELY IN THE EVENT OF A
MECHANICAL BREAKDOWN***



OPERATOR DUTIES

MUST BE NOTIFIED WHEN:

- ***PACKAGES ARE TO BE OPENED***
- ***UNLOADING OR DECANTING ARE TO OCCUR DUE TO OVERLOADING OR INCOMPATIBILITY ISSUES***
- ***MUST ARRANGE QUALIFIED PERSON***

OPERATOR DUTIES

VEHICLE INSPECTIONS:

- *MUST BE INSPECTED DAILY*
- *RECORDS OF INSPECTIONS KEPT*
- *VEHICLES MECHANICALLY SOUND*
- *QUALIFIED STAFF OR COMPETENT WORKSHOP MUST MAINTAIN*
- *OPERATOR IS ULTIMATELY FULLY RESPONSIBLE FOR ALL INSPECTIONS AND ASSIGNING COMPETENT PERSONS*
- *RECORD KEPT: LOGBOOK OR COMPUTER*

OPERATOR DUTIES

VEHICLE INSPECTIONS:

SEE PAGE 72

FOR PRESCRIBED INSPECTION SCHEDULE

PART NINE

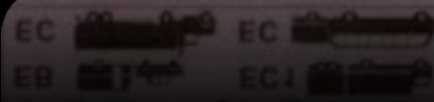
OPERATOR: DUTIES

CLICK ON THE TAB BELOW TO COMPLETE QUIZ

CHAPTER NINE QUIZ

PART TEN

DRIVER: DUTIES



DRIVER

*any person who **drives** or **attempts**
to drive any vehicle... ;*

DRIVER

SKILLS AND TRAINING

DRIVERS OF DG VEHICLES SHALL:

- **HAVE A PrDP – D (all DG vehicles)**
- **BE FIT TO DRIVE (AS PER NRTA)**
LICENSED, IN GOOD PHYSICAL HEALTH, SOBER
- **INTERPRET & IMPLEMENT THE INSTRUCTIONS OF TREMCARDS**

DRIVERS OF DG VEHICLES SHALL:

**RECEIVE ANNUAL COMPREHENSIVE
THEORETICAL AND PRACTICAL
TRAINING, RELEVANT TO TYPE OF VEHICLE
AND THE DANGEROUS GOODS THAT ARE
ASSIGNED TO HIM, INCLUDING
PROCEDURES SPECIFIC TO THE CARGO**

DAILY PRELIMINARY CHECKS:

- **VALID “DG” OPERATOR CARD**
- **VEHICLE IS ROADWORTHY**
- **COMPLETE CHECKLIST (PG 74 & 77)**
- **VEHICLE CLEAN AND FREE OF ANY PRODUCT THAT MAY CONTAMINATE ANY NEW LOAD OR CREATE HAZARD**

DRIVER DUTIES

BEFORE LOADING ON SITE

DRIVERS MUST ENSURE:

- SITE APPEARS SUITABLE**
- VEHICLE POSITIONED AS DIRECTED**
- PERMISSION TO LOAD IS GIVEN**

DRIVER DUTIES

AFTER LOADING COMPLETED

DRIVERS MUST ENSURE:

- TREC AND DGD IN ORANGE HOLDER
- EXTRANEIOUS DOCS REMOVED
- SAFETY EQUIPMENT IS ON BOARD
- TREMCARD IS UNDERSTOOD
- ORANGE DIAMOND / PLACARDS ARE DISPLAYED ON VEHICLE

DRIVER DUTIES

AFTER LOADING COMPLETED

DRIVERS MUST ENSURE:

- **NOT OVER- OR UNDER-LOADED**
- **LOAD IS PROPERLY SECURED**

**DOORS, HATCHES, STRAPS, NETS,
VALVES, HOSES AND CHOCKS**

EN-ROUTE:

- FOLLOW AGREED ROUTE
- NOT PARTICIPATE IN ANY OTHER ACTIVITIES NOT RELATED TO LOAD
- NO UNAUTHORISED PASSENGERS ARE ALLOWED IN VEHICLE
- STOP ONLY AT AGREED PLACES

CONSTANT VEHICLE AND LOAD SUPERVISION REQUIRED WHEN:

- **EXEMPT QTY IS < 10 kg or Litres**
- **SPECIAL “O” PROVISIONS APPLY AS PER PART C.5 – “O14 to O20”**

OTHER EN-ROUTE PROCEDURES:

- **OPENING OF PACKAGES, UNLOADING OR DECANTING NOT ALLOWED...**
- **UNLESS SUPERVISED BY QUALIFIED PERSON AND OPERATOR IS NOTIFIED**

OTHER EN-ROUTE PROCEDURES:

INCIDENT OCCURS?

**FOLLOW INSTRUCTIONS OF TREC AND
GIVE ASSISTANCE TO EMS**

**HAND OVER TREC/S AND DGD'S TO
THE EMS WHEN SO REQUESTED**

RECOMMENDED DRIVING HOURS

SINGLE DRIVER

- **MAXIMUM 5 HOURS AT ONE TIME**
- **MAXIMUM 14 HOURS PER 24 HR DAY**
- **AFTER 5 HRS – REST MIN 15 MIN**
- **AFTER 10 HRS – REST MIN 30 MIN**
- **CONTINUOUS REST - 9 HRS / 24 HRS**

CARGO SECUREMENT

OBEY SANS 10187:

MUST MINIMIZE RISK OF SPILLAGE

**IF VEHICLE OVERTURNS OR IF VEHICLE
IS INVOLVED IN AN INCIDENT**

**DOORS, HATCHES, STRAPS, NETS
CHAINS, CURTAINS**



PROFESSIONAL DRIVING PERMIT

“PRDP”

PrDP

CATEGORY “D”

- **IF VEHICLE EXCEEDS 3,500 kg GVM**
 - **ANY VEHICLE TO WHICH SANS 1518 APPLIES**
(i.e. BAKKIES / PANELVANS)

PrDp

CATEGORY “D”

MINIMUM AGE TO APPLY:

25 YEARS

Address where notice
must be served
(mark with X)

postal address posadres	street address straatadres
----------------------------	-------------------------------

Adres waar kennisgewing
beteken moet word
(merk met X)

**CATEGORY OF
PROFESSIONAL DRIVING PERMIT**

B

**KATEGORIE VAN
PROFESSIONELE BESTUURSPERMIT**

Mark with a cross (X) the category(ies) for which a professional driving permit is required. Note that category D automatically includes category G.

Trek 'n kruis (X) teenoor die kategorie(ë) waarvoor 'n professionele bestuurspermit verlang word. Neem kennis dat kategorie D outomaties kategorie G insluit.

Category

passengers passasiers P (21 years/jaar)	dangerous goods gevaarlike goedere D (25 years/jaar)	or of	goods goedere G (18 years/jaar)
---	---	----------	---

Kategorie

State whether any previous application for a professional driving permit had been refused, and if so, where, when and reasons for refusal.

Meld of enige vorige aansoek om 'n professionele bestuurspermit geweier is, en indien wel, waar, wanneer en redes vir weiering.

PrDP

CATEGORY “D”

DISQUALIFICATION

- **UNDER 25 YEARS OLD**
- **CRIMINAL RECORD <5 YEARS OLD**
 - *DRUNK DRIVING OR DRUGS,*
 - *RECKLESS OR NEGLIGENT DRIVING*
 - *VIOLENT OFFENCES*

DRIVER PPE

PERSONAL PROTECTION

EXPOSURE METHODS

ABSORPTION – THROUGH SKIN

INHALATION – GAS, DUST, FUMES

INGESTION – SWALLOWING

INJECTION – SHARP OBJECTS

DRIVER PPE

CONTROL METHODS FOR HCS

ELIMINATION – 100%

TRANSFER – 100%

SUBSTITUTION – 90%

ENGINEERING – 80%

ADMIN – 60%

PPE – 40%

**PPE SHOULD BE THE LAST RESORT
BUT IS USUALLY NECESSARY**





PART TEN

DRIVER: DUTIES

CLICK ON THE TAB BELOW TO COMPLETE QUIZ

CHAPTER TEN QUIZ

PART ELEVEN

CONSIGNEE: DUTIES



AUTHORIZED PERSONNEL ONLY

CONSIGNEE

means the person who **accepts** dangerous goods which have been transported in a vehicle



CONSIGNEE

IS RESPONSIBLE FOR THE

OFFLOADING

**OF DANGEROUS GOODS
AND MUST PROVIDE THE
QUALIFIED PERSON**

UNLESS OTHERWISE AGREED BETWEEN PARTIES

CONSIGNEE

IS RESPONSIBLE FOR THE

OFFLOADING

OF DANGEROUS GOODS

CONSIGNEE DUTIES

OFFLOADING – SANS 10231

QUALIFIED PERSON

- CARGO IS CORRECT & UNDAMAGED
- LOAD REFUSED IF IN DOUBT
WHETHER NO RISK IF OFFLOADED
- OFFLOADING CEASED IF UNSAFE
- SUFFICIENT SPACE IN TANKS / BINS
- FLOW ABLE TO STOP IMMEDIATELY
- VEHICLE CLEAN & VALVES CLOSED

CONSIGNEE DUTIES

OFFLOADING – SANS 10231

QUALIFIED PERSON

- PART LOADS PROPERLY SECURED
- DOCUMENTS REMOVED FROM D/S
- NO RESIDUE LEFT ON VEHICLE
- PLACARDS ON TANKERS REMAIN
- VEHICLE FREE OF CONTAMINATION

THIS MEANS CONSIGNEE HAS THE
DUTY TO CLEAN SPILLAGES

PART ELEVEN

CONSIGNEE: DUTIES

CLICK ON THE TAB BELOW TO COMPLETE QUIZ

CHAPTER ELEVEN QUIZ

PART TWELVE

VEHICLE COMPLIANCE



VEHICLE COMPLIANCE

NRTA

ROADWORTHY CERTIFICATE

**ALL DANGEROUS GOODS VEHICLES
REQUIRE AN**

ANNUAL RWC

**FOR BOTH LIGHT AND HEAVY GOODS
VEHICLES**

VEHICLE COMPLIANCE

NRTA

OPERATOR REGISTRATION

**ALL DANGEROUS GOODS VEHICLES
REQUIRE AN ANNUAL**

OPERATOR CARD “D”

**FOR BOTH LIGHT AND HEAVY GOODS
VEHICLES**

VEHICLE COMPLIANCE

SANS 1157: 2013

MUNICIPAL TRANSPORT PERMITS

**ALL DANGEROUS GOODS VEHICLES
REQUIRE AN ANNUAL**

MUNICIPAL DG PERMIT

**FOR BOTH LIGHT AND HEAVY GOODS
VEHICLES**

VEHICLE COMPLIANCE

SANS 1157: 2013

MUNICIPAL TRANSPORT PERMITS

MUST BE FITTED WITH

EQUIPMENT & SIGNS

AS PER SANS 1157 AND BY-LAWS



Ekurhuleni
METROPOLITAN MUNICIPALITY

**TRANSPORT-PERMIT
INFLAMMABLE LIQUIDS & SUBSTANCES**

REG. No.

MAKE

EXPIRY DATE

N^o

Disc. No. 08733

2014



Community Safety - Emergency Services FLAMMABLE SUBSTANCE TRANSPORT PERMIT

This is to certify that the vehicle, particulars of which are given below has been examined and found to comply with the prescribed structural requirements as contained in the municipal By-Laws relating to:

Flammable Substances for the conveyance of 27.165 kg / liters Flammable Substance including / ~~excluding~~ weight of container bed in accordance with Ekurhuleni Emergency Services By-Laws, Gazette No. 60 of 22 February 2006.

Registration No. WMI 297 GP Make: Freightliner Type: J-TRACTOR

Owner's Name: Bell Trucking

Address: Enr John & Hans Piraw

JHB

This permit is not a warranty of fitness of the vehicle herein described and any owner, driver or other person interested should satisfy himself as to the construction and condition of the said vehicle.

This permit shall, unless previously applied, cancelled or suspended, expire on 22.5.2015

The prescribed fee of 632.00 has been collected per Receipt No.: 8862

Dated 22 May 2014 issued.

*Delete which is not applicable.

R. Wheeler
Authorised Official
On behalf of Ekurhuleni Metropolitan Municipality



Cross out with an indelible marker what is not applicable.

NOTE: Before the permit is deemed complete the official stamp of the Ekurhuleni Emergency Services.

MUNICIPAL PERMITS

AS PER SANS 1157

PANEL VAN & LDV

CHECKLIST – PAGE 89

- **DRIVER SHIELDED FROM LOAD**
- **2 X FIRE EXTINGUISHERS (DCP)**
- **2 X QUICK-RELEASE BRACKETS**
- **ORANGE WARNING DIAMOND**
- **OPERATOR CARD – CATEGORY “D”**
- **DOCUMENT HOLDER (D/SPACE)**
- **VENTILATION WHERE APPLICABLE**
- **SIDES 600 mm HIGH (open vehicles)**
- **3 PLACARDS / BRACKETS - 350 X 200**
- **3 x NO SMOKING**
- **3 x NO NAKED FLAME 150 x 150 mm**
- **3 x NO CELLPHONE – Battery Isolator**







FIREMATE

Manufactured by Safesafe

KwaZulu Natal
(031) 579 4674

Western Cape
(021) 907 2800

Eastern
(031) 877700

DRY POWDER



Rating: 27A

Rating: 144B

9 kg
Charge Weight

**RECHARGE
IMMEDIATELY
AFTER USE**

Empty Mass: 4kg

Full Mass: 13kg

Working Pressure: 1400kPa

Test Pressure: 2100kPa

No 1 Sarsburg Rd, Bloubaan, Cape Town
South Africa. Tel: 021 907 2800. Fax: 021 907 2801



ISOLATOR
SWITCH

NISSAN

OPERATEURSKAART
RSA

NR.

Reg.-owerh./Reg. auth.
Kempton Park

Lisensienr.
Licence no.

Vrt.registernr.
Veh. register no.

NVK

NVC

VIN

BVM/GVM 14000 kg

Fabrikaat
Make

Kategorie
Category D

Naam
Name

Identiteitsnr. 04 /

Identity no.

Adres
Address

Vervaldatum/Date of expiry

OPERATOR CARD

DOCUMENTS



MUNICIPAL PERMITS

AS PER SANS 1157

TRUCK TRACTOR

CHECKLIST – PAGE 90

- **1 x FIRE EXTINGUISHER (DCP)**
- **1 x QUICK-RELEASE BRACKET**
- **ORANGE WARNING DIAMOND**
- **EXHAUST SHIELD – FLAMMABLES
– EXPLOSIVES**
- **OPERATOR CARD – CATEGORY “D”**
- **DOCUMENT HOLDER (D/SPACE)**
- **BATTERY COVER – INSULATED
– VENTILATED**
- **BATTERY ISOLATOR SWITCH WITH
ON AND OFF POSITIONS MARKED**



IVECO

ZPZ859 GP





OPERATEURSKAART
RSA

NR.

Reg.-owerh./Reg. auth.
Kempton Park

Lisensienr.
Licence no.

Vrt.registernr.
Veh. register no.

NVK

NVC

VIN

BVM/GVM 14000 kg

Fabrikaat
Make

Kategorie
Category G,D

Naam
Name

Identiteitsnr. 04 /

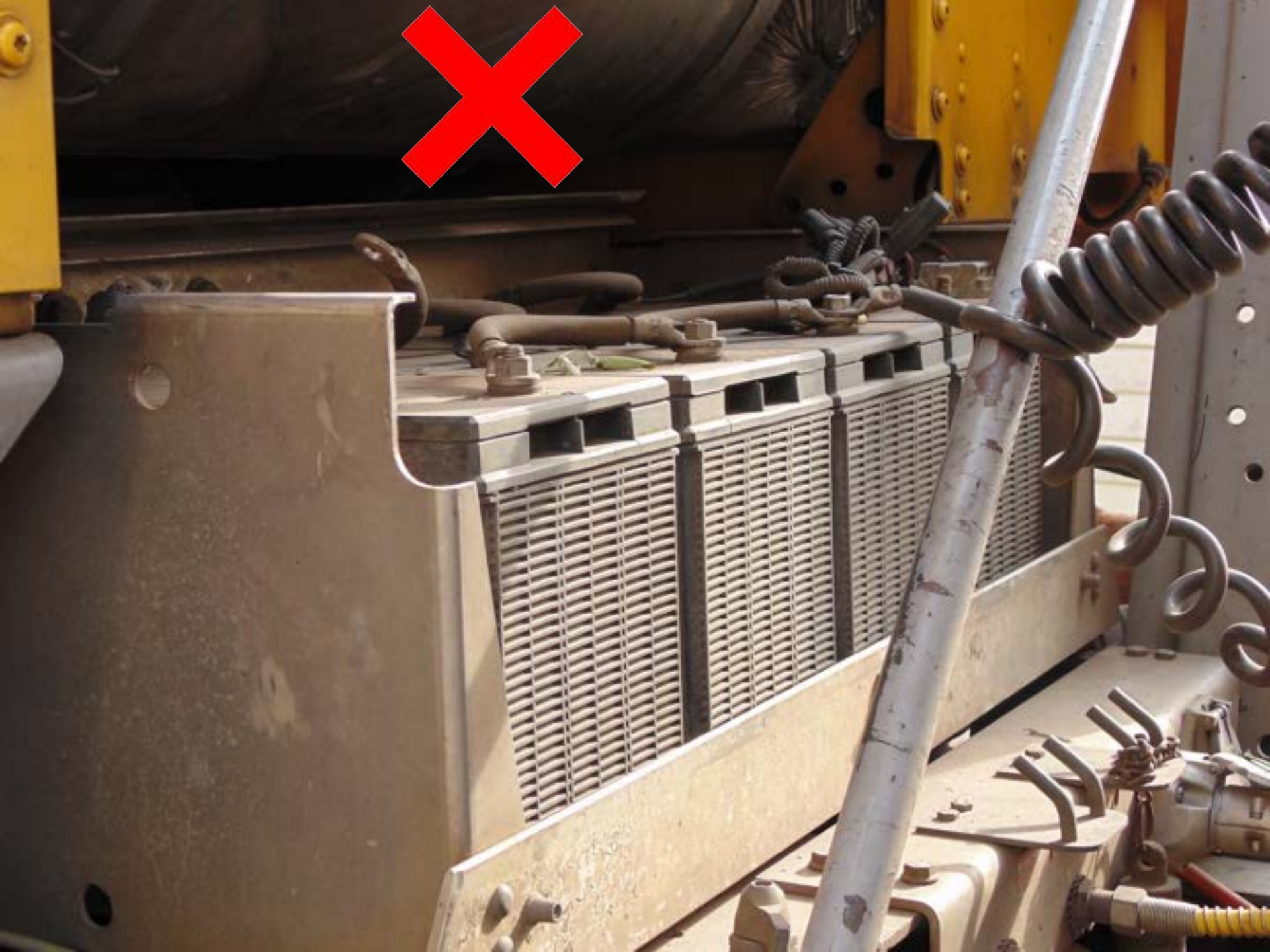
Identity no.

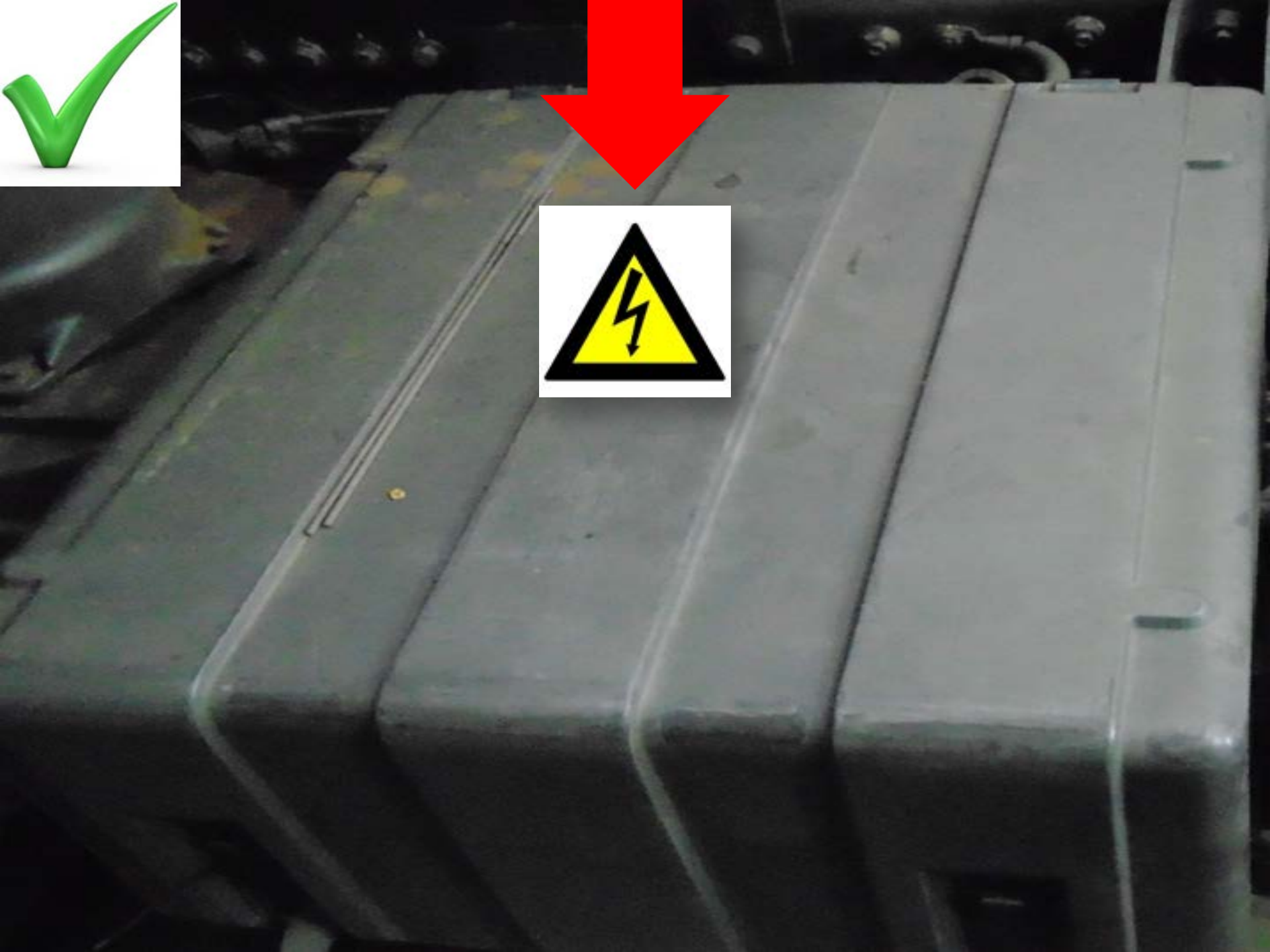
Adres
Address

Vervaldatum/Date of expiry

OPERATOR CARD

DOCUMENTS







ISOLATOR
SWITCH



ON

OFF

MUNICIPAL PERMITS

AS PER SANS 1157

RIGID HMV

CHECKLIST – PAGE 91

- 2 x FIRE EXTINGUISHERS (DCP)
- 2 x QUICK-RELEASE BRACKETS
- OPERATOR CARD – CATEGORY “D”
- ORANGE WARNING DIAMOND
- DOCUMENT HOLDER (D/SPACE)
- VENTILATION WHERE APPLICABLE
- BATTERY COVER – INSULATED
– VENTILATED
- BATTERY ISOLATOR SWITCH WITH
ON AND OFF POSITIONS MARKED

- **SIDES 600 mm HIGH (open vehicles)**
- **3 PLACARDS / BRACKETS - 700 X 400**
- **3 x NO SMOKING**
- **3 x NO NAKED FLAME 290 x 290 mm**
- **3 x NO CELLPHONE**
- **2 x WHEEL CHOCKS, HD, NON-SPARK**



Amazon Colourants
COLOURANT IN TRANSIT
TEL:(011) 614-

CABSTAR

Member of Rolfes
GROUP

OPERATEURSKAART
RSA

NR.

Reg.-owerh./Reg. auth.
Kempton Park

Lisensienr.
Licence no.

Vrt.registernr.
Veh. register no.

NVK

NVC

VIN

BVM/GVM 14000 kg

Fabrikaat
Make

Kategorie
Category G,D

Naam
Name

Identiteitsnr. 04 /

Identity no.

Adres
Address

Vervaldatum/Date of expiry

OPERATOR CARD



CABSTAR

WDY175 GP

DOCUMENTS



AFK-391

MIXED
LOAD
082 255 8401
084 810 6984





LPGeniys CALOR

Gas deliveries direct to your door

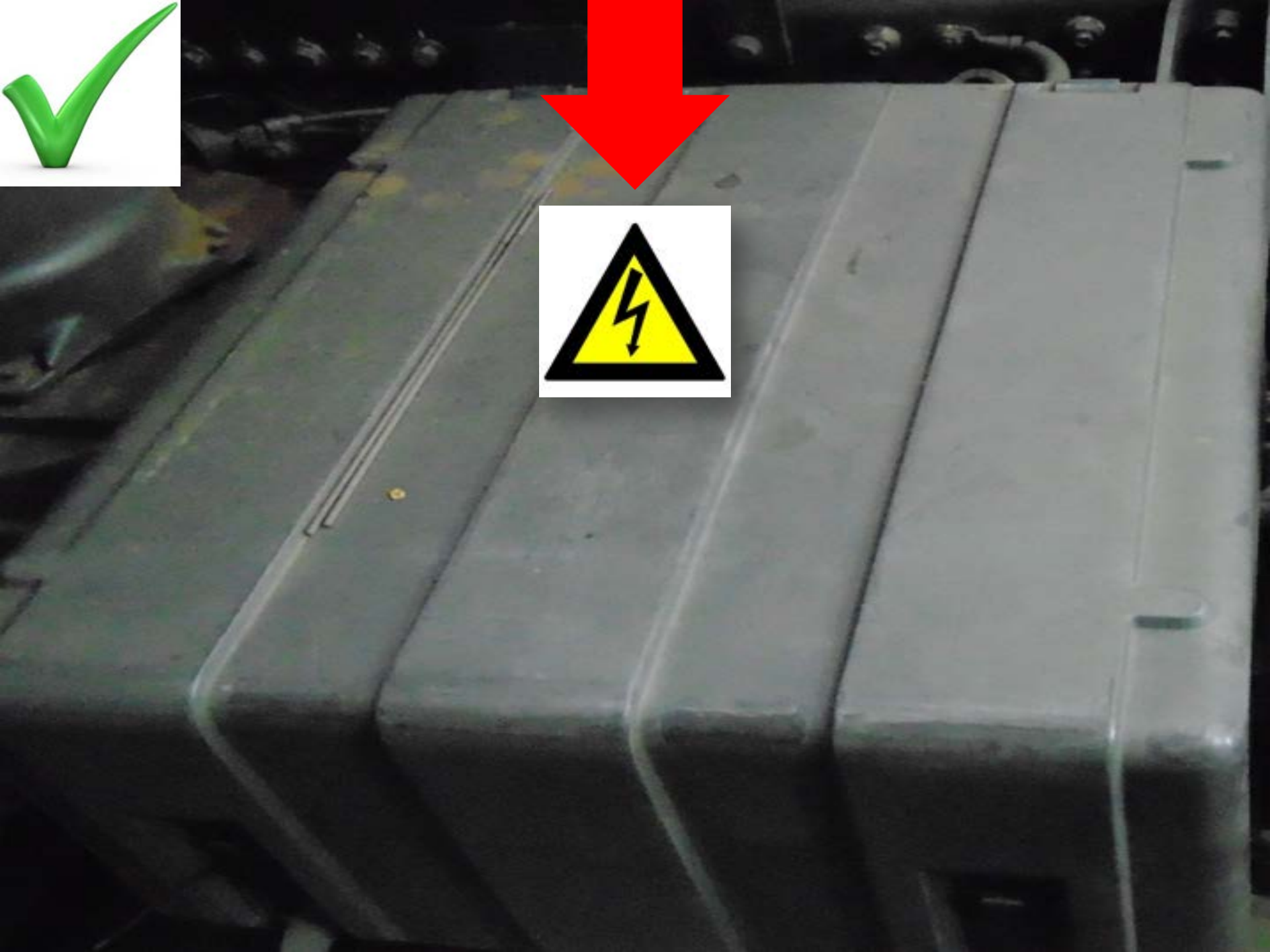
Freephone 0800 662 663 calor.co.uk

1075

OPERATOR TEL
ADVICE NUMBER

SPECIALIST TEL
ADVICE NUMBER





ISOLATOR
SWITCH



ON

OFF





600 mm

**MIXED
LOAD**

(011) 493 4878
083 630 9279

084 810 6984



DANGEROUS



aldex
ABS

MICO S.A.

INVERTER





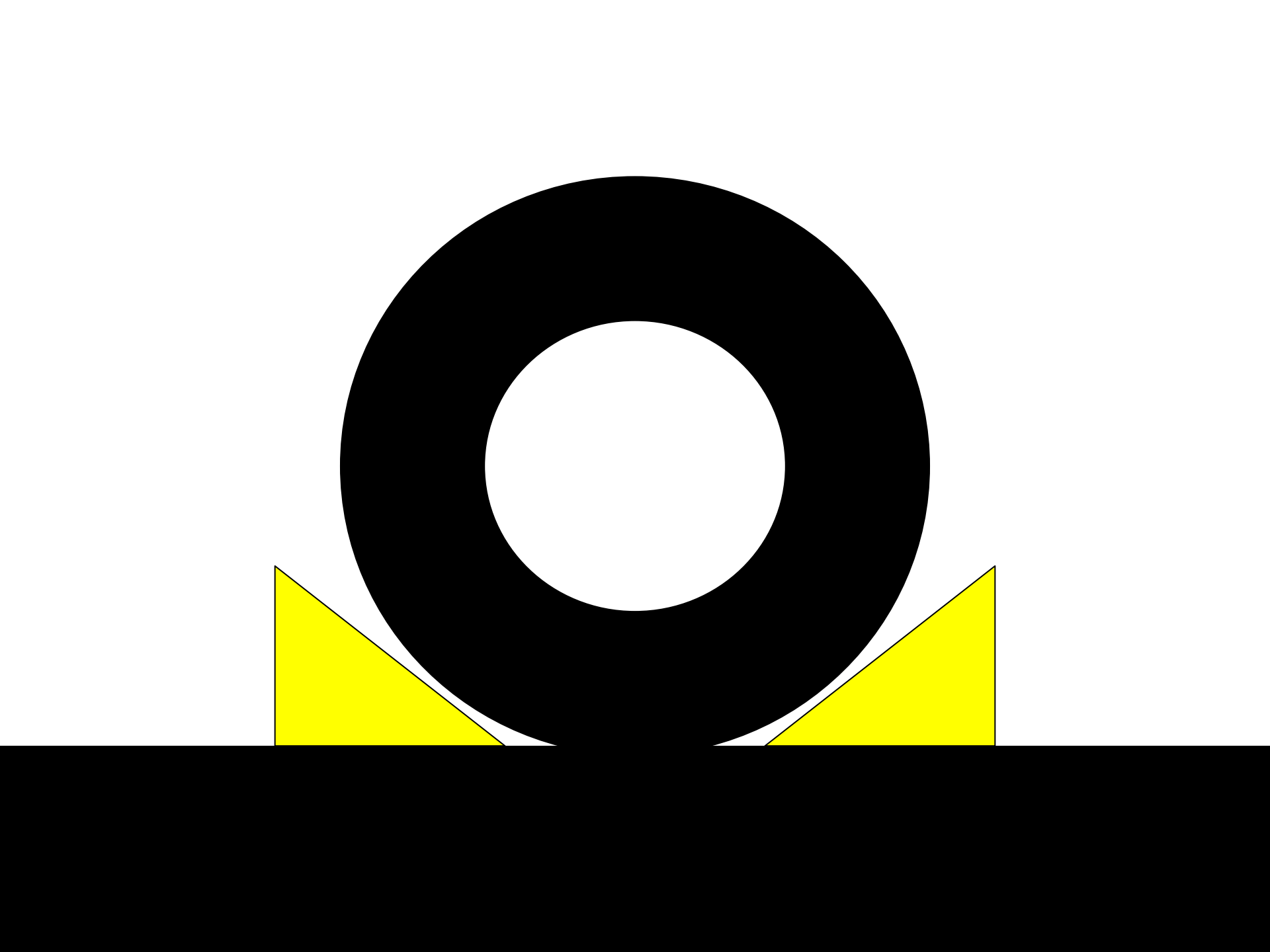
DANGER

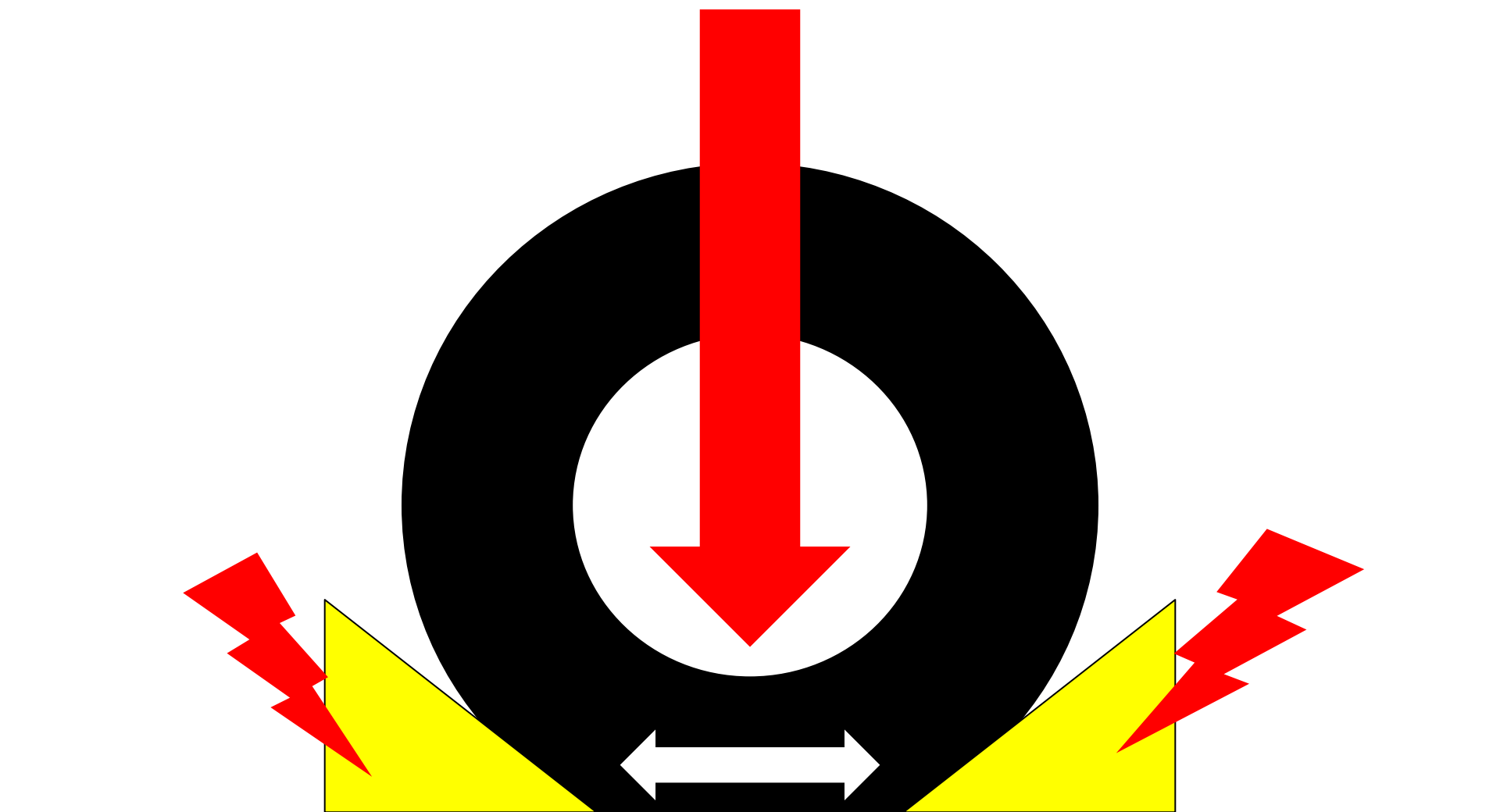
**ALL DRIVERS
MUST CHOCK WHEELS**

**PLACE WHEEL CHOCKS
BEHIND NON-STEERING
WHEELS ONLY**

DRIVER'S SIDE

**NOT TOO CLOSE TO
TYRE – WILL GET STUCK**





MUNICIPAL PERMITS

AS PER SANS 1157

RIGID TANK TRUCKS & TANK TRAILERS

CHECKLIST – PAGE 92



1075
OPERATOR TEL
SERVICE NUMBER
SPECIALIST TEL
SERVICE NUMBER



ROSE GAS
LTD

01825 732655

logic

logic



1203





1203



F

- **2 x FIRE EXTINGUISHERS (DCP)**
- **2 x QUICK-RELEASE BRACKETS**
- **OPERATOR CARD – CATEGORY “D”**
- **ORANGE WARNING DIAMOND -TRUCKS**
- **DOCUMENT HOLDER (D/SPACE)**
- **3 PLACARDS / BRACKETS - 700 X 400**
- **3 x NO SMOKING**
- **3 x NO NAKED FLAME 290 x 290 mm**
- **3 x NO CELLPHONE**

- **PIPES FITTINGS NOT TO PROJECT**
- **REAR BUMPER TO PROTECT TANK & PIPES FROM COLLISION**
- **2 x WHEEL CHOCKS, HD, NON- SPARK**
- **BATTERY COVER – INSULATED
– VENTILATED**
- **BATTERY ISOLATOR SWITCH WITH
ON AND OFF POSITIONS MARKED**

OPERATEURSKAART
RSA

NR.

Reg.-owerh./Reg. auth.
Kempton Park

Lisensienr.
Licence no.

Vrt.registernr.
Veh. register no.

NVK

NVC

VIN

BVM/GVM 14000 kg

Fabrikaat
Make

Kategorie
Category G,D

Naam
Name

Identiteitsnr. 04 /

Identity no.

Adres
Address

Vervaldatum/Date of expiry

OPERATOR CARD



IVECO

ZPZ859 GP



DOCUMENTS





1203	



x 3

PIPES AND FITTINGS MAY NOT PROJECT



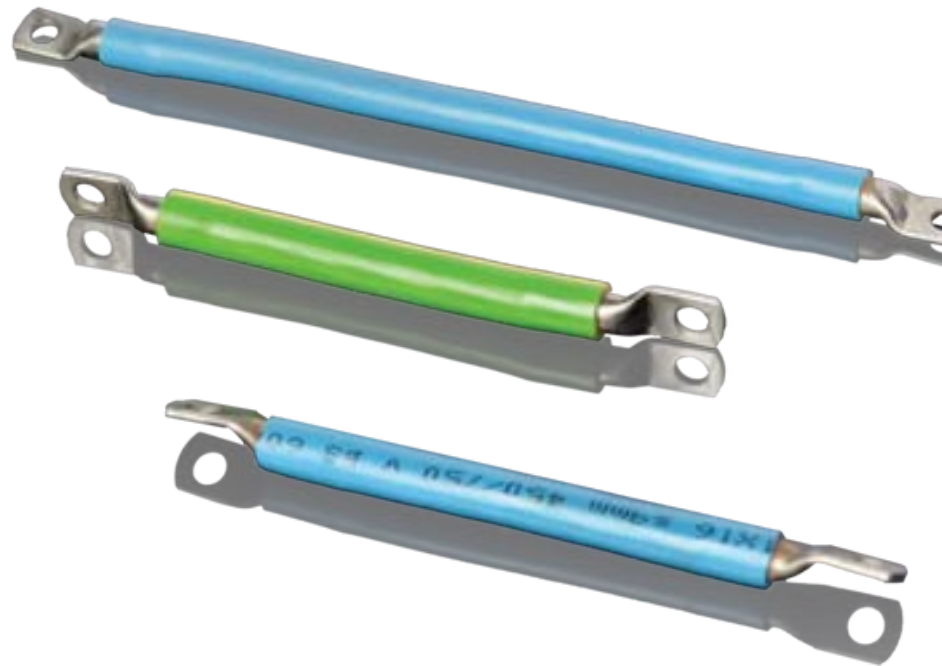


**REAR BUMPER TO
PROTECT TANKS / PIPES**



**ELECTRICAL
BONDING**

CONTINUITY





**EARTHING
POINTS**

**ON EACH
SIDE OF
VEHICLE**





ISOLATOR SWITCH  OFF ON

ISOLATOR
SWITCH



ON

OFF



MUNICIPAL PERMITS

AS PER SANS 1157

SKELETAL OR GOODS TRAILERS

CHECKLIST – PAGE 93

- **2 x FIRE EXTINGUISHERS (DCP)**
- **2 x QUICK-RELEASE BRACKETS**
- **OPERATOR CARD – CATEGORY “D”**
- **HIGH SIDES OF 600 mm FOR GAS OR UNSECURED LOADS**
- **3 PLACARDS / BRACKETS - 700 X 400**
- **3 x NO SMOKING**
- **3 x NO NAKED FLAME 290 x 290 mm**
- **3 x NO CELLPHONE**







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Identity no.

Adres
Address

Vervaldatum/Date of expiry

OPERATOR CARD



600 mm



KANGALOU



600 mm







**MIXED
LOAD**

OPERATOR TEL
ADVICE NUMBER

SPECIALIST TEL
ADVICE NUMBER



PART TWELVE

VEHICLE COMPLIANCE

CLICK ON THE TAB BELOW TO COMPLETE QUIZ

[CHAPTER TWELVE QUIZ](#)

PART THIRTEEN

FIRE FIGHTING & FIRST AID



FIRE EXTINGUISHERS

SANS 1518 & 1157

DANGEROUS GOODS CARRIERS

MUST BE EQUIPPED WITH PRESCRIBED

PORTABLE

DCP

“DRY CHEMICAL POWDER”

EXTINGUISHERS

BLUE LABEL





BF38DR GP









FIRE EXTINGUISHERS

SANS 1518 & 1157

**MUST BE SUITABLE FOR
CLASS A, B AND C FIRES**



A – Trash • Wood • Paper



B – Liquids • Grease



C – Electrical Equip.



FIRE EXTINGUISHERS

SANS 1518 & 1157

**MUST BE MOUNTED ON QUICK
RELEASE BRACKETS**

**AND BE PROTECTED FROM
NEGATIVE ENVIRONMENTAL &
OPERATIONAL INFLUENCES
(e.g. corrosives)**

FIRE EXTINGUISHERS

SANS 1518 & 1157

MUST NOT BE MOUNTED

**VERTICALLY (90°) OR
HORIZONTALLY (180°) FLAT**

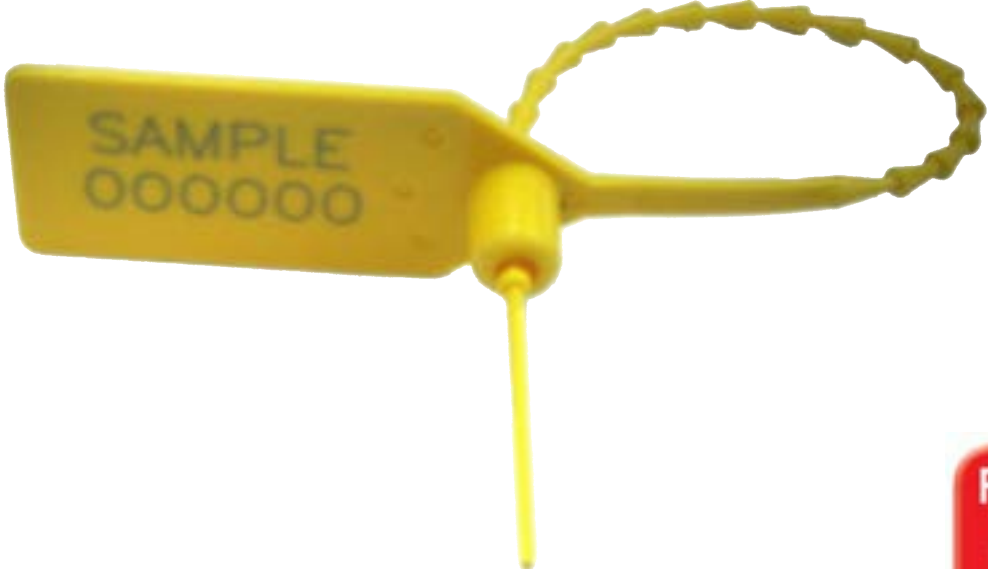
**45° PREVENTS COMPACTION OF
THE MONO-AMMONIUM
PHOSPHATE POWDER**

FIRE EXTINGUISHERS

SANS 1518 & 1157

**ALL EXTINGUISHERS MUST BE
PROVIDED WITH:**

- **SEALS TO VERIFY NON-USAGE**
- **GAUGES – PRESSURE CORRECT**
- **LABELS – LAST / NEXT DATE**
- **SANS 1910 APPROVAL MARK**



FIRE EXTINGUISHER MAINTENANCE RECORD

This fire extinguisher is serviced and maintained in accordance with the recommendations and frequencies of British Standard 5306 part 3 and refilled when required to BS6643 part 1 and future amendments

DATE	CODE	COMMENTS	NSD	WEIGHT	ENG

- CODES**
R - Refilled
B - Basic Service
E - Extended Service
O - Overhaul
AR - Advise Replacement
NSD - Next Service Due
Weight - Extinguisher or Cartridge (Delete as applicable)

Next Test
Discharge Due

Last Test
Discharged

FIRE EXTINGUISHERS

SANS 1518 & 1157

**NEW EXTINGUISHERS MUST BE
MAINTAINED, LABELLED AND
TESTED AFTER 12 MONTHS**

AS PER:

SANS 1910

FIRE EXTINGUISHERS

SANS 1518 & 1157

**ALL EXTINGUISHERS MUST BE
MAINTAINED, LABELLED AND
TESTED 6-MONTHLY AS PER:**

SANS 1475-1

**THE PRODUCTION OF
RECONDITIONED FIRE-FIGHTING
EQUIPMENT – PART 1**

FIRE EXTINGUISHERS

SANS 10231

**INSPECTION OF GOODS CONTAINMENT
AREA OF A VEHICLE**

**MOUNTING (QUICK-RELEASE)
BRACKETS MUST BE CHECKED FOR
CORRECT FITMENT**

FIRE EXTINGUISHERS

SANS 10231

**LISTED UNDER REQUIREMENTS FOR
LOADING AND OFFLOADING
("L" PROVISIONS, TABLE C.1)**

















**PLACE VEHICLE EXTINGUISHERS
READY FOR USE IF NONE ARE
PROVIDED AT THE LOADING
OR OFFLOADING POINT**

FIRE CLASSES

TYPES OF FIRES

CLASS A	ORDINARY COMBUSTIBLES: wood, paper, rubber, fabrics and many plastics	
CLASS B	FLAMMABLE LIQUIDS & GASES: gasoline, oils, paint, lacquer and tar	
CLASS C	FIRES INVOLVING LIVE ELECTRICAL EQUIPMENT	
CLASS D	COMBUSTIBLE METALS OR COMBUSTIBLE METAL ALLOYS (NO picture symbol)	
CLASS K	FIRES IN COOKING APPLIANCES THAT INVOLVE COMBUSTIBLE COOKING MEDIA vegetable or animal oils and fats	

TYPES OF EXTINGUISHERS

CLASS A			
CLASS A:B			
CLASS A:B:C			
CLASS A:C			
CLASS B:C			
CLASS D			
CLASS A:K			



HOW TO USE EXTINGUISHERS

1. CALL FOR HELP (SERIOUS, LARGE)
2. OWN SAFETY
3. ASSESS THE FIRE – SIZE ETC...
4. EXTINGUISHER TYPE (CLASSES?)
5. READY THE EXTINGUISHER (Shake)
6. AIM AT THE BASE OF THE FIRE
7. APPLY THE P.A.S.S. METHOD
8. 30 seconds EXTINGUISHING AGENT
9. TEND TO SURROUNDING AREA TOO
10. REPLACE / REFILL EXTINGUISHER

P.A.S.S. METHOD

OF EXTINGUISHING FIRES

- **P** - PULL
- **A** - AIM
- **S** - SQUEEZE
- **S** - SWEEP



P.A.S.S.

Pull pin.

Aim at base of fire.

Squeeze handle.

Sweep side to side.

TIPS

FOR FIRE EXTINGUISHERS

- **REPLACE IF DISCHARGED**
- **REPLACE IF DAMAGED**
- **SERVICE EVERY 6 MONTHS**
- **CHECK ALL PARTS EVERY DAY**
- **KEEP CLEAN – NO OIL / GREASE**
- **HYDROTEST EVERY 3 YEARS**
- **SHAKE MONTHLY – LOOSEN DCP**





First-Aid

FIRST AID

FOR CHEMICAL EXPOSURE

PARTS OF THE BODY EXPOSED:

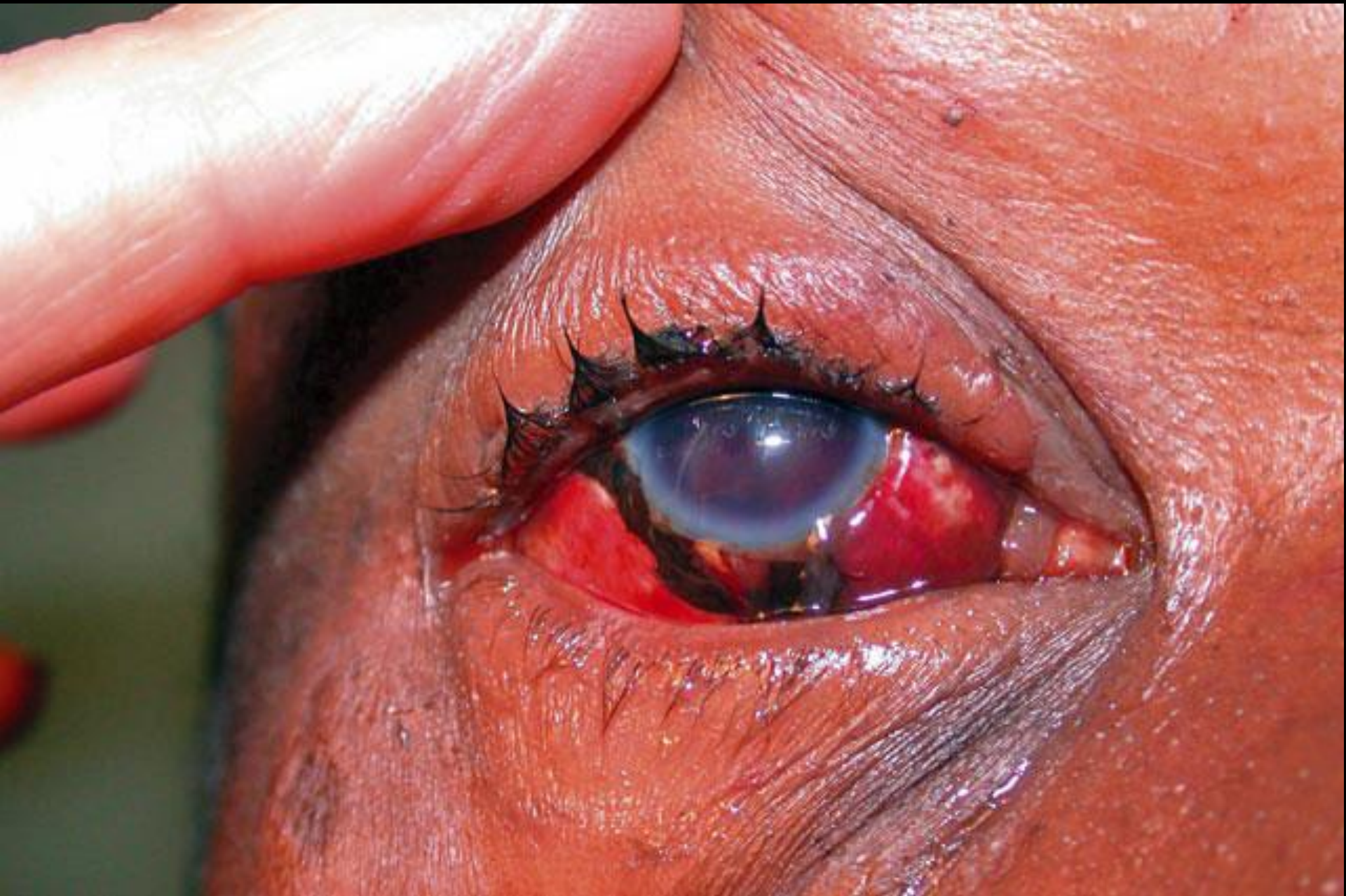
- **EYES**
- **SKIN**
- **LUNGS (inhalation)**
- **STOMACH (ingestion)**

FIRST AID

FOR CHEMICAL EXPOSURE

EYES

- FLUSH WITH CLEAN WATER
- UNDER EYELIDS – 15 MIN
- KEEP EYEWASH BOTTLE



FIRST AID

FOR CHEMICAL EXPOSURE

SKIN

- **QUICKLY WASH**
- **SOAP AND WATER**
- **REMOVE DIRTY CLOTHING**
- **20 MINUTES OR LONGER**



FIRST AID

FOR CHEMICAL EXPOSURE

LUNGS

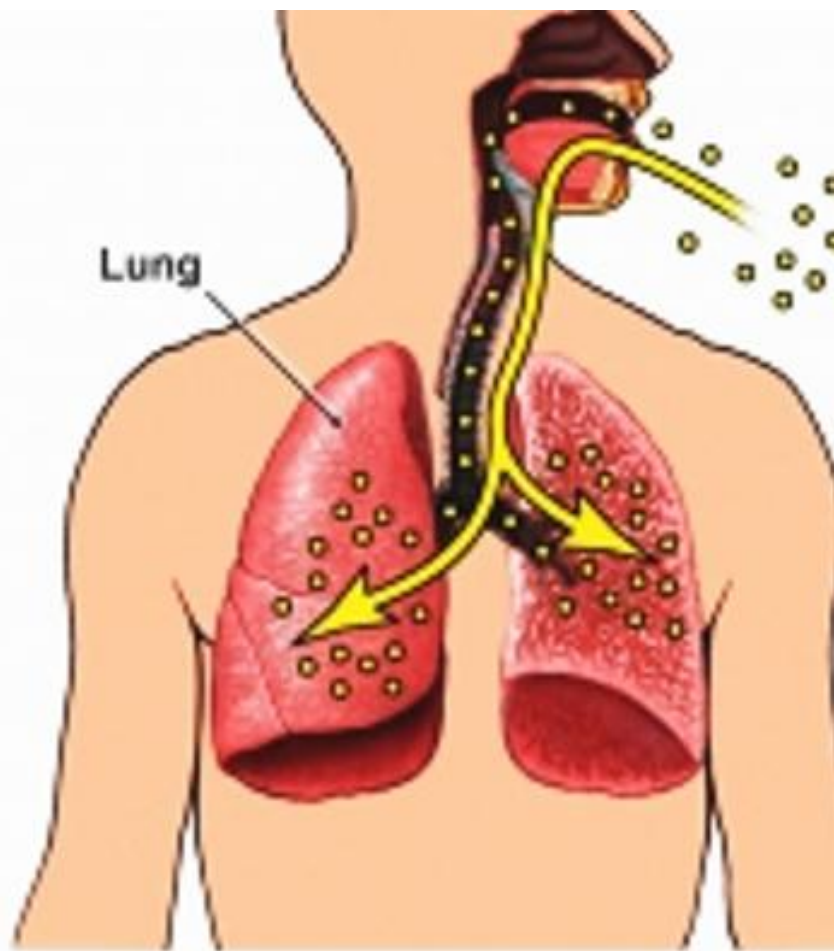
(inhalation)

RECOGNISE SIGNS:

DIZZINESS, NAUSEA, STOMACH UPSET

GO TO FRESH AIR QUICKLY

SIT OR LIE DOWN



FIRST AID

FOR CHEMICAL EXPOSURE

SWALLOWING

(ingestion)

**REFER TO MSDS OR LABEL
IF AVAILABLE**

DRINK MILK OR WATER

DO NOT INDUCE VOMITING



FIRST AID

FOR CHEMICAL EXPOSURE

ALWAYS SEEK MEDICAL HELP IF:

- CONTACT - EYES, NOSE, MOUTH
- WHEN MSDS GIVES INSTRUCTION
- LABEL WARNS - CORROSIVE
- LARGE BURNS CAUSED
- IF DIFFICULTY IN BREATHING

FIRST AID

FOR CHEMICAL EXPOSURE

WHILE YOU WAIT FOR HELP:

- REASSURE CONSCIOUS VICTIM
- RESCUE BREATHING OR CPR
- KEEP AIRWAY OPEN
- RECOVERY POSITION – ON SIDE
- RECORD DETAILS AND SIGNS

PART THIRTEEN

FIRE FIGHTING & FIRST AID

CLICK ON THE TAB BELOW TO COMPLETE QUIZ

CHAPTER THIRTEEN QUIZ

YOU ARE ABOUT TO TAKE OUR ONLINE CONVEY DANGEROUS GOODS BY ROAD

ASSESSMENT IMPORTANT

- Make sure you fill in your details correctly
- Please wait a few seconds after clicking submit, you will be prompted to submit final answers
- We will ONLY contact you after successfully completing the assessment.
- Certificates will be sent to your email address after receiving payment, or you may pay on collection.

CLICK ON THE TAB BELOW TO COMPLETE QUIZ

FINAL ASSESSMENT

CERTIFICATION PROCESS

1. Upon successfully achieving 75% or above, you will receive two emails to sign (electronically)
2. Once we have received both emails , you will be required to pay for your dangerous goods documentation. You have two options:
 - Pay on collection (15A Terrace Road, Eastleigh, Edenvale)
 - EFT payment (You will be responsible for printing and laminating your documents.

PLEASE NOTE:

Certificates will only be issued during the following work hours:

Monday - Friday

08:00 to 15:30

Saturday

08:00 - 12:30

Support team: 064 947 9574 or 083 279 6047

**Message us on
WhatsApp**