

# Handling of Dangerous Goods

Markings, Labels and Placarding

June 2014



# Introduction

- **Markings and Labeling Regulation 3 (IMDG)**
  - Packages containing a harmful substance shall be durably marked with the correct technical name
  - Hazard class, Un number, Marine pollutant
  - Labels to survive 3 months immersion in the sea
  - Small quantities may be exempted
- **Why?**
  - Clearly ID the product
  - Correct stowage
  - Product to correspond with the supporting documentation
  - Acknowledge the risks associated with the products



# Emergency Response Information

- Basic description and technical name(s) of hazardous materials
- Health hazards
- Risks - fire and/or explosion
- Immediate precautions
- Firefighting methods
- Spill/leak containment
- First aid measures



# Markings

- All package markings shall:
  - Be readily visible and legible
  - Durable to withstand at least 3 months immersion in the sea
  - Be displayed on a background of contrasting colour on the external surface of the package
  - Not be located with other package markings that can substantially reduce their effectiveness
  - Salvage packaging shall additionally be marked with the word “SALVAGE”
  - IBC’s of more than 450lt capacity and large packaging shall be marked on opposing sides
  - Special marking provisions for **Class 7**
  - Special marking provisions for Marine pollutants
  - Two orientation arrows on opposing's sides to indicate the correct upright direction



# GHS Pictograms



# Pictograms for GHS labels





# Placarding- Transportation- Dangerous Goods

## LABELLING AND PLACARDING CHART

### Placards for road transport in South Africa

**Positioned**

One on each side of the vehicle and one at the rear

**UN number**

100 mm high  
In the case of a mixed load "MULTILOAD" or "WASTE" 50 mm high

**Operator's 24-hour telephone number**

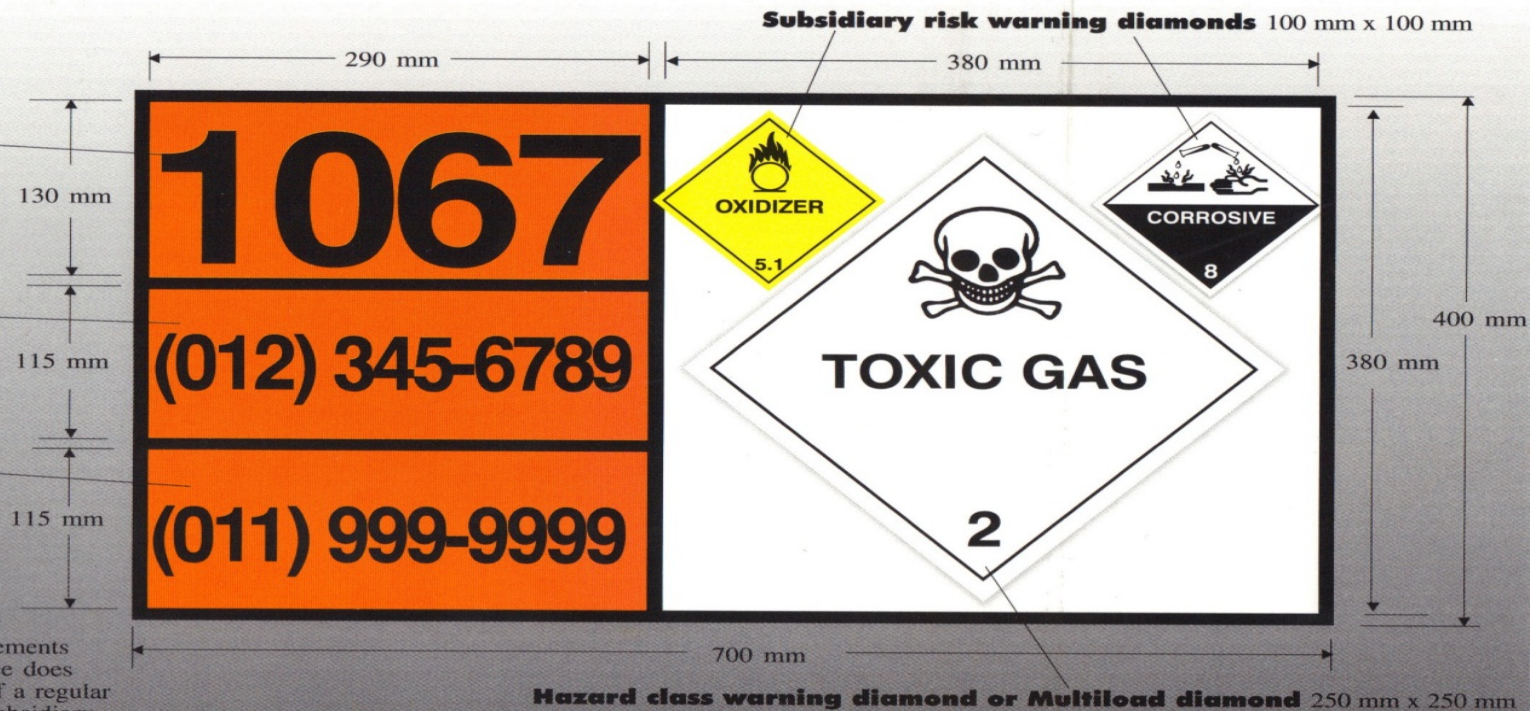
50 mm high

**Specialist 24-hour telephone number**

50 mm high

**For light delivery vehicles**

all measurements may be halved if space does not allow the fitting of a regular size placard and no subsidiary risk diamonds are required



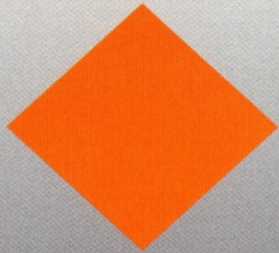


# Placarding – cont.

**1067**

## Goods identification rectangle

300 mm x 150 mm with a 10 mm black border. Used instead of the above placard on freight containers destined for a sea port, it carries the UN number and must be placed adjacent to the appropriate hazard class warning diamond on all four sides, in accordance with IMDG regulations.



## Danger warning diamond

250 mm x 250 mm (100 mm x 100 mm for LDVs.) Used in addition to the above placard and positioned at the front of the vehicle.



## Elevated temperature

Whenever transporting liquid at 100°C or above, or a solid at 240°C or above, this sign, with sides of at least 250 mm must be displayed on both sides and at the rear of the transport unit.



## Marine pollutant

Sides at least 250 mm. Used on marine pollutant cargo destined for sea freight.

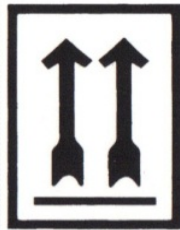


## Fumigation warning

At least 300 mm wide and 250 mm deep. Used when fumigating a transport unit, it must be placed where it will be easily seen by a person attempting to enter the unit.

## Handling labels

### International air freight



## European road and rail transport

210 mm x 148 mm. A smaller version (105 mm x 74 mm) of the orientation label is also used for international air freight and may be printed in either black or red.

90 mm



110 mm



110 mm

120 mm



# PPE Pictograms



# Exercise



Thank you

