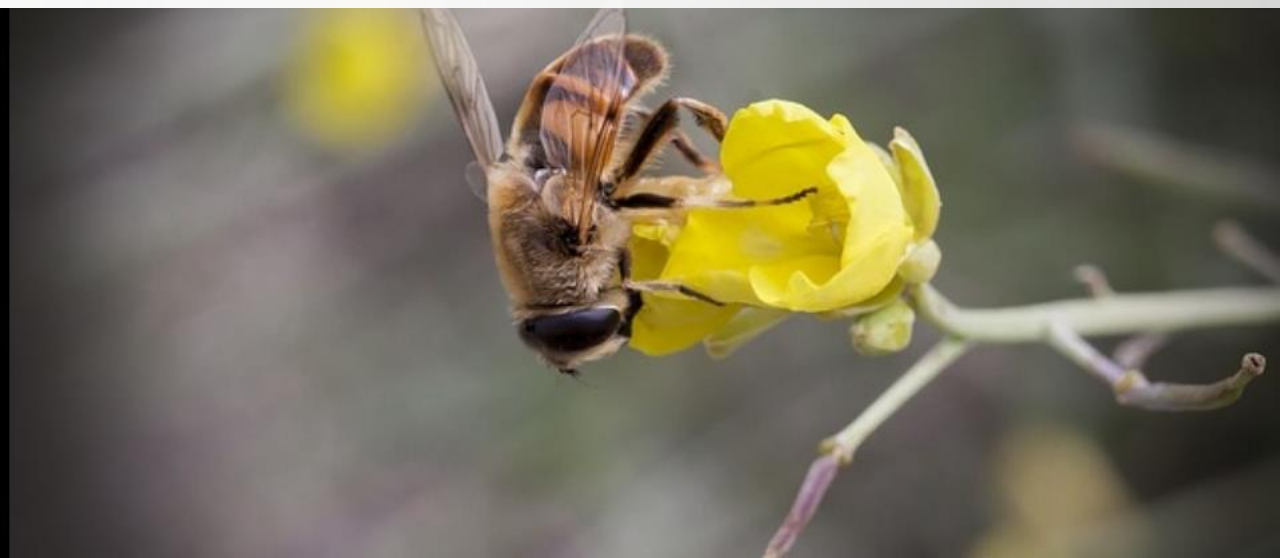




COMPLIANCE WITH THE SECTIONS AND REGULATIONS OF THE NATIONAL ROAD TRAFFIC ACT, 1996 (ACT NO. 93 OF 1996) AND THE SOUTH AFRICAN NATIONAL STANDARD FOR THE TRANSPORT OF DANGEROUS GOODS BY ROAD – OPERATIONAL REQUIREMENTS SANS 10231



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The SANS 10231 for the road transport of dangerous goods is encompassed in the National Road Transportation Act, 1996 (Act No. 93 of 1996) (Act is available on www.croplife.co.za under knowledge centre) under Regulation 273(A) of Regulations and Notices No. R225 of 23 November 2005 of the Act (Regulations are available on www.croplife.co.za under knowledge centre). These regulations require that drivers of vehicles that transport dangerous goods are licensed as such and such vehicles are licensed and certified as dangerous good vehicles.

Exemptions in terms of Act No. 93 of 1996 and SANS 10231

Regulation 276 of the Regulations and Notices No. R225 and Section 7.4.1 of SANS 10231 offer exemptions for the transport of dangerous goods under certain conditions namely:

A. SANS 10231, Section 7.4.1 (f): *bona fide farmer* or his (her) employee transporting pesticides (all classified as dangerous goods) intended for use in farming operations and his or her load on a private vehicle are exempted from the statutes of Act No. 93 of 1996 and SANS 10231 provided that:

1. goods (pesticides) are not transported for resale;
2. journey is less than 250 km of which no more than 50 km is on a national carriageway (meaning route designated by NXX)
3. liquids are no more than 1,000 litres

Exemptions in terms of Act No. 93 of 1996 and SANS 10231

1. solids are no more than 1,000 kg;
2. any combination of liquids and solids is no more than 1,000 units (unit means 1 kg or 1 litre)

This means that a farmer or his or her employee transporting up to 1,000 litres or 1,000 kilograms (or a maximum combination of 1,000 litres and kilograms) pesticides on his or her own vehicle is not subjected to the provisions of Act No. 93 of 1996, Regulation No. R225 or SANS 10231.

This exemption does not apply to any other person such as an agrochemical agent who delivers pesticides to the farm gate. Such persons must check whether their loads may be exempted in terms of Section 7.1 or Section 7.2 of SANS 10231.

Table C.1 of SANS 10231 lists all the dangerous goods according to their UN numbers with the respective packing class, exempt quantities and other information. The UN number of a pesticide must be printed on the main panel of the label on the container or a label supplied as an insert.

Calculation of exempt quantities for dangerous goods loads. Use the following calculation to determine the total number of units for a load of dangerous goods and **take note that the total volume or mass of the goods seldom corresponds with the total number of units.**

$A = Q \times F$ where A is the result (number of units), Q is the quantity (as loaded) and F is the factor of column 7 of table C1.

B. SANS 10231, Section 7.1: a single load (only one pesticide) is exempted from the provisions of the Act, Regulations and SANS 10231 if the total number of units does not exceed 1,000 units and only if a single pesticide is transported (namely only one UN number applies); this quantity is defined by column 6 of table C1 in SANS 10231.

Calculation for a single load:

- find the UN number on the main panel of the pesticide label, e.g. for mancozeb the UN number is 3077;
- go to Table C1 in SANS 10231 and find the UN number in column 1 (numbers follow numerically);

- find the exempt quantity in column 6 which is 1,000 units;
- find the conversion factor in column 7;
- do the calculation to obtain the total quantity namely 1,000 in this example. This load is exempted.

Examples:

1,000 kg mancozeb with UN number 3077: 1,000 litres; $1 \times 1,000$ (exempt quantity) $\times 1$ (factor) = 1,000. This single load is exempted.

40 x 20 litres glyphosate with UN number 3082: 800 litres; $0.8 \times 1,000$ (exempt quantity) $\times 1$ (factor) = 800. This single load of glyphosate is exempted.

15 x 10 litres dichlorvos with UN number 3017: 150 litres; 3×50 (exempt quantity) $\times 20$ (factor) = 1,500. This single load is not exempted.

10 x 25 litres amitraz with UN number 1993: 250 litres; $0.25 \times 1,000$ (exempt quantity) $\times 1$ (factor) = 250. This single load is exempted.

- C. SANS 10231, Section 7.2: a mixed load** is exempted from the provisions of the Act, Regulations and SANS 10231 if the total number of units does not exceed 1,000 as calculated.

Calculation for a mixed load:

- do the calculation for each individual product as above;
- add the quantities together for the total quantity of the load.

Example:

1 x 20 litres cypermethrin, 2 X 20 litres imidacloprid, 5 X 20 litres glyphosate:

- cypermethrin UN number is 3351: irrespective of packing group all calculations arrive at the same number of units (20 litres; 1×5 (exempt quantity) $\times 200$ (factor) = 1,000)
- imidacloprid UN number is 2902: irrespective of packing group all calculations arrive at the same number of units (40 litres; 8×5 (exempt quantity) $\times 200$ (factor) = 8,000)
- glyphosate UN number is 3082: irrespective of packing group all calculations arrive at the same number of units (100 litres; $0.1 \times 1,000$ (exempt quantity) $\times 1$ (factor) = 100)
- **TOTAL QUANTITY:** $1,000 + 8,000 + 100 = 9,100$ units. This load is not exempted even though it is only 160 litres of pesticides in total.

The requirements for transporting dangerous goods in excess of the exempt quantities are:

- that the vehicle must be registered and licensed as a dangerous goods transport vehicle;
- that the vehicle must be marked with the appropriate signage and placards with the required emergency numbers;
- that the driver of such a vehicle has a valid Professional Driver's License (PDP) and is qualified and certified as a dangerous goods vehicle driver.

A copy of the 2018 version of SANS 10231 can be obtained online at www.sabs.co.za. **A copy is licensed to a single user only hence CropLife SA cannot obtain a copy for general use by its members.**

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