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Packaging of Pesticides — Requirements

Part 4: Fumigants

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Foreword

Rwanda Standards are prepared by Technical Committees and approved by Rwanda Standards Board (RSB) Board of Directors in accordance with the procedures of RSB, in compliance with Annex 3 of the WTO/TBT agreement on the preparation, adoption and application of standards.

The main task of technical committees is to prepare national standards. Final Draft Rwanda Standards adopted by Technical committees are ratified by members of RSB Board of Directors for publication and gazettment as Rwanda Standards.

DRS 565-4 was prepared by Technical Committee RSB/TC 007, *Agrochemicals*.

In the preparation of this standard, reference was made to the following standard:

IS 8190-4: Requirements for packing of pesticides — Part 4: Fumigants

The assistance derived from the above source is hereby acknowledged with thanks.

DRS 565 consists of the following parts, under the general title *Packaging of pesticides — Requirements*:

- *Part 1: Solid pesticides*
- *Part 2: Liquid pesticides*
- *Part 3: Household pesticides*
- *Part 4: Fumigants*

Committee membership

The following organizations were represented on the Technical Committee on *Pesticides* (RSB/TC 064) in the preparation of this standard.

Rwanda Forensic Laboratory

Rwanda Agriculture and Animal Resources Development Board

Rwanda Inspectorate, Competition and Consumer Protection Authority

University of Rwanda/College of Sciences and Technology

Rwanda Housing Authority

Rwanda Food and Drugs Authority

Rwanda Standards Board (RSB) – Secretariat

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Packaging of pesticides — Requirements — Part 4: Fumigants

1 Scope

This Draft Rwanda Standard gives requirements for packaging of fumigants.

It does not cover the packaging requirements for fumigants meant for household use (DRS 565-3).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

RS 406, *Pesticides — Terminology*

RS ISO 6361-5, *Wrought aluminium and aluminium alloys — Sheets, strips and plates — Part 5: Chemical composition*

3 Terms and definitions

For the purposes of this standard, the terms and definitions given in RS 406 apply.

4 General requirements

4.1 The fumigants, unless specified otherwise in Table 1 shall be packaged in a container in the quantities of 50 ml, 100 ml, 250 ml, 1 litre, 5 litres, 10 litres, 25 litres and 50 litres or 50 g, 100 g, 250 g, 500 g, 1 kg, 10 kg, 25 kg and 50 kg.

4.2 Packages containing material up to 1 kg or 1 litre shall be further packaged in corrugated fibreboard boxes or wooden cases where they require transportation.

4.3 The high density polyethylene (HDPE) used in the fabrication of HDPE container or its components shall be of designation HDPE 43BA or 42BA or 42BB having melt flow index not more than 1.8 g/10 minutes.

4.4 Aluminium used in the fabrication of containers shall conform to Grade 1050A of RS ISO 6361-5.

4.5 Containers of mild steel and tinplate shall also be lacquered externally to prevent rusting from outside, if not lithographed. If lithographed, top and bottom components shall be lacquered externally.

4.6 Closures provided shall be such as not to allow any materials to leak through them. These shall be pilfer-proof.

4.6 In case of solid fumigants, heat-sealing if applicable to containers shall be such that no powder comes out from seams during normal handling. Closures, wherever provided, shall be leak-proof.

4.7 Containers holding 5 litres or more of liquid fumigants shall be provided with a pouring device with each container.

4.8 The container shall be of sturdy design and shall conform to the relevant specific standard.

4.9 The packaging shall also conform to the relevant standards for the packaging of goods falling in the category of materials of low flash point, dangerous and toxic, wherever applicable.

5 Specific requirements

The fumigants shall be packaged in dry and clean containers as described in Table 1.

Table 1 – Requirements for packaging of fumigants

S/N	Fumigant	Requirements
i.	Ethylene dichloride – carbon tetrachloride mixture (3:1 v/v)	Galvanized iron or mild steel containers in quantity of 100 ml, 250 ml, 500 ml, 1 litre, 5 litres, 25 litres or 50 litres each package
ii.	Ethylene dibromide	Galvanized iron or mild steel containers suitably and properly lacquered from inside in quantity of 100 ml, 250 ml, 500 ml, 1 litre, 5 litres, 20 litres or 50 litres each package
iii.	Methyl bromide	Welded low carbon steel gas cylinders fitted with appropriate valves.
iv.	Aluminium phosphide formulations	10, 20 or 30 tablets of 3 g each or 50 tablets/pellets of 0.6 g each shall be packaged in a leak-proof, airtight seamless extruded rigid aluminium tube. Suitable number of such tubes shall be further packaged in airtight tapper top lever lid cans. Alternatively, 334 tablets of 3 g each or 1670 tablets/pellets of 0.6 g each shall be packaged in leak-proof, airtight seamless extruded rigid aluminium bottles. Package of 30 tablets in a tube is meant for EXPORT AND NOT FOR INTERNAL USE

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