

# Hand-held pressurized aerosol dispensers against houseflies —

## Part 1: Specification for insecticidal performance

ICS 55.130; 65.100.10

# Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee CII/49, Insecticidal aerosols, upon which the following bodies were represented:

British Aerosol Manufacturers Association  
British Association for Chemical Specialities  
British Pest Control Association  
Department of Health — Health Aspects of the Environment and Food Division  
Health and Safety Executive  
Huntingdon Research Centre  
Ministry of Agriculture, Fisheries and Food

This British Standard, having been prepared under the direction of the Sector Committee for Materials and Chemicals, was published under the authority of the Standards Committee and comes into effect on 15 February 1999

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## Foreword

This part of BS 4172 has been prepared by Technical Committee C11/49. It supersedes BS 4172-1:1993 which is withdrawn.

The principal changes from the 1993 edition are the addition of references to recent legislation affecting the packaging of the dispensers and revision of terminology to improve conformity with that used in related agricultural and horticultural applications (e.g. “efficiency” is replaced with “performance”).

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### Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 and 2, an inside back cover and a back cover.

## 1 Scope

This part of BS 4172 specifies requirements for the insecticidal performance and marking of hand-held pressurized aerosol dispensers (hereafter referred to as “dispensers”) for domestic, indoor use as space treatments against houseflies.

It does not apply to metered-valve and total-release dispensers.

NOTE General requirements, for example those covering the materials and construction of non-refillable metal aerosol dispensers, are specified in BS 3914.

## 2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of this British Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. For undated references, the latest edition of the publication applies.

BS 4172-2:1998, *Hand-held pressurized dispensers against houseflies — Part 2: Method for determination of insecticidal performance.*

## 3 Definitions

For the purposes of this part of BS 4172, the definitions given in BS 4172-2 apply.

## 4 Insecticidal performance

When determined in accordance with BS 4172-2:1998, discharged at the dosage rate recommended on the product label or by the manufacturer, and employing the conformity criteria target values  $A = 0.176$  (for  $\log_{10} KT_{50}$ ) and  $B = 10^\circ$  (for arcsin 24 h knockdown), the insecticidal performance of the candidate shall be rated as “not worse” than that of the reference dispenser.

NOTE A full explanation of  $A$  and  $B$  is given in BS 4172-2:1998.

Examples of results are given in Table 1.

**Table 1 — Examples of results achieving conformity**

Parameter	Example	Reference dispenser <sup>a</sup>	Candidate <sup>a</sup>
Mean $KT_{50}$ min	i)	4	5.2
	ii)	6	7.9
Mean 24 h knockdown %	i)	50	42.3
	ii)	97	93.9
NOTE The results given above are only just sufficient to achieve conformity with this standard.			
<sup>a</sup> Assuming six replicates of both reference dispenser and candidate and $se(\delta) = 0.025$ for $\log_{10} KT_{50}$ and $se(\delta) = 2.5$ for arcsin 24 h knockdown.			

## 5 Marking

The dispenser shall be marked with the following statement:

“Conforms to BS 4172-1:1998.”<sup>1)</sup>

NOTE The marking of domestic, insecticidal dispensers is covered by the provisions of the Control of Pesticides Regulations 1986. [1], the Chemicals (Hazard Information and Packaging) Regulations 1994 (CHIP/2) and 1996 (CHIP: Amendment regulations) [2] and The UK Regulations 1996 no. 2421 [3]; The Aerosol Dispensers (EEC Requirements) (Amendment) Regulations [3].

<sup>1)</sup> Marking BS 4172-1:1998 on or in relation to a product represents a manufacturer’s declaration of conformity, i.e. a claim by or on behalf of the manufacturer that the product meets the requirements of the standard. The accuracy of the claim is solely the claimant’s responsibility. Such a declaration is not to be confused with third party certification of conformity, which may also be desirable.



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# Bibliography

## Standards publications

BS 3914, *Specification for non-refillable metal aerosol dispensers of 50 ml to 1 400 ml capacity and up to 85 mm diameter.*

## Other publications

- [1] GREAT BRITAIN. Control of Pesticides Regulations 1986.
- [2] GREAT BRITAIN. The Chemicals (Hazard Information and Packaging) Regulations 1994 (CHIP/2) and 1996 (CHIP: Amendment) Regulations.
- [3] GREAT BRITAIN. The UK Regulations 1996 no. 2421; The Aerosol Dispensers (EEC Requirements) (Amendment) Regulations.

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