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Agricultural and forestry machinery — Environmental requirements for sprayers —

Part 1: General

Matériel agricole et forestier — Exigences environnementales pour les pulvérisateurs —

Partie 1: Généralités



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 16119-1 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 144, *Tractors and machinery for agriculture and forestry*, in collaboration with ISO Technical Committee TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 6, *Equipment for crop protection*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

ISO 16119 consists of the following parts, under the general title *Agricultural and forestry machinery — Environmental requirements for sprayers*:

- *Part 1: General*
- *Part 2: Horizontal boom sprayers*
- *Part 3: Sprayers for bush and tree crops*
- *Part 4: Fixed and semi-mobile sprayers*

Other parts are planned (see [Annex A](#)).

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Introduction

It is important that biological, ecological and economic considerations are taken into account when carrying out plant protection by spraying. For this, a comprehensive knowledge of liquids for spraying — including the limitations of their use — and suitable sprayers are necessary.

ISO 16119 gives the minimum requirements for sprayers, with particular emphasis on minimizing environmental damage, focusing on

- the deposition of liquid on the target and distribution,
- a minimization of the unintentional spreading of plant protection products into the surrounding environment, and
- an improvement in the use and operation of plant protection equipment.