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IS 14184 (1994): Pesticide - Cartap Hydrochloride G [FAD 1: Pesticides and Pesticides Residue Analysis]



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“Knowledge is such a treasure which cannot be stolen”

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भारतीय मानक

कीटनाशक — कारतप हाइड्रोक्लोराइड ग्रेन्यूल्स — विशिष्ट

Indian Standard

**PESTICIDE — CARTAP HYDROCHLORIDE G —
SPECIFICATION**

(First Reprint JANUARY 1999)

UDC 632.951 CAR

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**BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002**

July 1994

Price Group 1

**AMENDMENT NO. 1 DECEMBER 1995
TO
IS 14184 : 1994 PESTICIDE — CARTAP
HYDROCHLORIDE G — SPECIFICATION**

(*Page 1, clause 2, against IS 14159 : 1994*) — Substitute 'Cartap hydrochloride technical' for 'Cartap hydrochloride, technical'.

(*Page 1, clause 3.1.2*) — Substitute 'Cartap hydrochloride technical' for 'Cartap hydrochloride, technical'.

(*Page 2, clause 5*) — Add the following at the end:

'5.1 BIS Certification Marking

The product may be marked with Standard Mark.

5.1.1 The use of the Standard Mark is governed by the provisions of Bureau of Indian Standards Act, 1986 and the Rules and Regulations made thereunder. The details of conditions under which the licence for the use of Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.'

FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards, after the draft finalized by the Pesticides Sectional Committee had been approved by the Food and Agriculture Division Council.

Cartap hydrochloride G are used in the control of insect pests in agriculture.

Cartap hydrochloride G is generally manufactured to contain 4 percent (*m/m*) of Cartap hydrochloride.

In the preparation of this standard, due consideration has been given to the provisions of the *Insecticides Act*, 1968 and the Rules framed thereunder and *Standards of Weights and Measures (Packaged Commodities) Rules*, 1977. However, this standard is subjected to the restrictions imposed under these, wherever applicable.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

PESTICIDE — CARTAP HYDROCHLORIDE G — SPECIFICATION

1 SCOPE

This standard prescribes the requirements and the methods of sampling and test for cartap hydrochloride G.

2 REFERENCES

The following Indian Standards are necessary adjuncts to this standard.

<i>IS No.</i>	<i>Title</i>
1070 : 1992	Reagent grade water (<i>third revision</i>)
6940 : 1982	Methods of test for pesticide and their formulations (<i>first revision</i>)
8190 (Part 1) : 1988	Requirements for packing of pesticides : Part 1 Solid pesticides (<i>second revision</i>)
10627 : 1983	Methods for sampling of pesticide formulations
IS 14159 : 1994	Pesticide — Cartap hydrochloride, technical

3 REQUIREMENTS

3.1 Constituents

3.1.1 The material shall consist of cartap hydrochloride, technical impregnated on suitable carrier(s) together with binder(s), stabilizer(s) and/or other formulants.

3.1.2 Cartap hydrochloride, technical employed in the formulation of the material shall conform to IS 14159 : 1994.

3.2 Physical

The material shall comply with the physical requirements specified in 3.2.1 to 3.2.4.

3.2.1 Description

The product shall consist of dry, free flowing granules, free from visible extraneous impurities or added modifying agents and dust except for the amount specified in 3.2.3.

3.2.2 Particle Size

Not less than 97 percent by mass of the product shall pass through a test sieve having a mesh size of the upper declared limit and not more

than 5 percent by mass of the product shall pass through a test sieve having a mesh size of the lower declared limit when determined by the method described in 12.1 of IS 6940 : 1982.

3.2.2.1 The ratio of lower to upper particle size shall not exceed 1 : 3.

3.2.3 Dust

When determined by the method described in 12.1 of IS 6940 : 1982, not more than 1.0 percent by mass of the product shall pass through 75 micron IS sieve.

3.2.3.1 The portion retained on the sieve (*see 3.2.3*) shall contain not less than 8 percent by mass of the declared nominal cartap hydrochloride content when determined by the method described in Annex A of IS 14159 : 1994.

3.2.4 Moisture Content

When determined by the method prescribed in 4 of IS 6940 : 1982, the moisture content of the material shall not exceed 4.0 percent by mass.

3.3 Chemical

The material shall comply with the chemical requirements specified in 3.3.1 and 3.3.2.

3.3.1 Cartap Hydrochloride Content

When determined by the method prescribed in Annex A of IS 14159 : 1994, the observed cartap hydrochloride content (*m/m*), of any of the samples shall not differ from the nominal value by more than the percent tolerances applied to the declared nominal value and as given below:

<i>Nominal Value</i>	<i>Tolerance, percent (m/m)</i>
Up to 9	+ 10 - 5
10 and below 50	± 5
50 and above	+ 5 - 3

} of the nominal value

3.3.2 The pH of 1 percent (*m/m*) aqueous extract of the material shall be between 3.0 and 4.5 when tested by the method described in 13.5.4.2 of IS 6940 : 1982.

4 PACKAGING

The material shall be packed in HDPE woven sacks with LDPE liner of thickness not less than 0.062 mm. Packing shall also comply with the other requirements given in IS 8190 (Part 1) : 1988.

5 MARKING

The containers shall bear legibly and indelibly the following information in addition to any other information as to required under the Insecticides Act, 1968 and Rules framed thereunder:

- a) Name of the material and particle size (see 3.2.2);
- b) Name of the manufacturer;
- c) Batch number;
- d) Date of manufacture;
- e) Date of expiry;
- f) Net mass of the contents;
- g) Nominal cartap hydrochloride content, percent (m/m);
- h) Cautionary notice as worded in the *Insecticides Act 1968* and *Rules* framed thereunder; and

- j) Any other information required under the *Standards of Weights and Measures (Packaged Commodities) Rules, 1977.*

6 SAMPLING

When freshly manufactured material in bulk quantity is offered for inspection, representative samples shall be drawn and tested as prescribed in IS 10627 : 1983 within 90 days of its manufacture. When the material is offered for inspection after 90 days of its manufacture, sampling shall be done as prescribed in IS 10627 : 1983. However, the criteria for conformity of the material when tested, shall be the limits of tolerances, as applicable over the declared nominal value and given under 3.3.1 of this standard.

7 TESTS

7.1 Tests shall be carried out by the appropriate methods referred to in 3.2.2 to 3.2.4, 3.3.1 and 3.3.2.

7.2 Quality of Reagents

Unless specified otherwise, pure chemicals and distilled water (see IS 1070 : 1992) shall be employed in tests.

NOTE — 'Pure chemicals' shall mean the chemicals that do not contain impurities which affect the results of analysis.

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This Indian Standard has been developed from Doc: No. **FAD 1 (265)**.

Amendments Issued Since Publication

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**AMENDMENT NO. 2 JANUARY 2013
TO
IS 14184 : 1994 PESTICIDE — CARTAP
HYDROCHLORIDE G — SPECIFICATION**

(*Page 1, clause 3.2.2.1*) — Substitute the following for the existing:

‘**3.2.2.1** The ratio of lower to upper sieve sizes declared under **3.2.2** shall not exceed 1 : 3.’

(FAD 1)

Reprography Unit, BIS, New Delhi, India