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मानक

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IS 9364 (1980): Trichlorfon Granules [FAD 1: Pesticides and Pesticides Residue Analysis]



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IS : 9364 - 1980

*Indian Standard*  
SPECIFICATION FOR  
TRICHLORFON GRANULES

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

*April* 1980

# *Indian Standard*

## SPECIFICATION FOR TRICHLORFON GRANULES

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( *Continued on page 2* )

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**IS : 9364 - 1980**

( Continued from page 1 )

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( Continued on page 7 )



**AMENDMENT NO. 1      OCTOBER 1983**  
**TO**

**IS : 9364-1980   SPECIFICATION FOR**  
**TRICHLORFON GRANULES**

**Alterations**

( Page 4, clause 2.2.1 ) — Substitute the following for the existing clause:

‘ 2.2.1 *Description* — The product shall consist of dry, free flowing granules, free from visible extraneous matter and dust except for the amount specified ( see 2.2.3 ). It may contain added colouring matter. ’

( Page 4, clause 2.2.2, heading ) — Substitute ‘ *Sieving Requirements* ’ for ‘ *Particle Size* ’.

( Page 4, clauses 2.2.2, 2.2.3 and 2.2.5 ) — Substitute ‘ IS : 6940-1982† ’ for ‘ IS : 6940-1973† ’ wherever it occurs.

( Page 4, foot-note with ‘ † ’ mark ) — Substitute the following for the existing foot-note:

‘ †Methods of tests for pesticides and their formulations (*first revision*). ’

( Page 4, clause 2.2.2.1 ) — Substitute the following for the existing clause:

‘ 2.2.2.1 The ratio of lower to upper limit of the sieve sizes given under 2.2.2 shall not exceed 1 : 3. ’

( Page 4, clause 2.2.3.1 ) — Delete.

( Page 4, clause 2.2.4.1, line 1 ) — Substitute ‘ 24 hours ’ for ‘ 14 days ’.

( Pages 4 and 5, clause 2.3.1 ) — Substitute the following for the existing clause:

‘ 2.3.1 *Trichlorfon Content* — When determined by the method prescribed in Appendix A of IS : 7945-1976\*, the observed trichlorfon content, percent ( *m/m* ), of any of the samples shall not differ from the nominal value by more than the percent tolerance applied to the declared nominal value as given below:

<i>Nominal Value, Percent</i>	<i>Tolerance, Percent</i>	
Up to 9	+ 10 — 5	} of the nominal value ’
Above 9 and below 50	± 5	
50 and above	+ 5 — 3	

( Page 5, clause 2.3.2, line 2 ) — Substitute ' IS : 6940-1982\*' for ' IS : 6940-1973\* '.

( Page 5, foot-note with ' \* ' mark ) — Substitute the following for the existing foot-note:

' \*Methods of tests for pesticides and their formulations ( *first revision* ).'

### **Addendum**

( Page 4, clause 2.2.3 ) — Add the following new matter at the end of 2.2.3:

' The material retained on the sieve should comply with the requirements of 2.3.1.'



**AMENDMENT NO. 2 MAY 1994**  
**TO**  
**IS 9364 : 1980 SPECIFICATION FOR TRICHLORFON**  
**GRANULES**

( *Page 4, clauses 2.2.4 and 2.2.4.1* ) — Delete.

( *Page 6, clause 4.1* ) — Substitute the following for the existing:

‘When freshly manufactured material in bulk quantity is offered for inspection, representative samples of the material 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 clause 2.3.1 of the standard.’

( FAD 1 )

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Reprography Unit, BIS, New Delhi, India

*Indian Standard*  
**SPECIFICATION FOR  
TRICHLORFON GRANULES**

**0. FOREWORD**

**0.1** This Indian Standard was adopted by the Indian Standards Institution on 29 January 1980, after the draft finalized by the Pest Control Sectional Committee had been approved by the Agricultural and Food Products Division Council and the Chemical Division Council.

**0.2** Trichlorfon granules are used largely for controlling agricultural pests, household pests and for the control of ectoparasites of domestic animals.

**0.3** Trichlorfon granules are generally manufactured to contain 5 percent (*m/m*) of trichlorfon.

**0.4** In the preparation of this standard due consideration has been given to the provisions of the Insecticides Act, 1968 and the Rules framed thereunder. However, this standard is subject to the restrictions imposed under these, wherever applicable.

**0.5** 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\*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

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**1. SCOPE**

**1.1** This standard prescribes the requirements and the methods of sampling and test for trichlorfon granules.

**2. REQUIREMENTS**

**2.1 Constituents** — The material shall consist of trichlorfon, technical, as the only active ingredient impregnated on suitable carrier (s) together with binder (s), stabilizer (s) and/or other formulants.

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\*Rules for rounding off numerical values (*revised*).

**IS : 9364 - 1980**

**2.1.1 Trichlorfon, technical, employed in the formulation of this material shall conform to IS : 7945-1976\*.**

**2.2 Physical** — The material shall comply with the physical requirements specified in **2.2.1** to **2.2.5**.

**2.2.1 Description** — The product shall consist of dry, free flowing granules, free from visible extraneous matter and dust except for the amount specified ( *see 2.2.3* ). It may contain added colouring matter. When dusted from a granule applicator, the material shall come freely without clogging or bridging the apparatus.

**2.2.2 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 lower declared limit when determined by the method described in **12.1** of IS : 6940-1973† [ *see 3.2 (a)* ].

**2.2.2.1** The ratio of lower to upper particle size shall not exceed 1 : 2.

**2.2.3 Dust** — When determined by the method described in **12.1** of IS : 6940-1973†, not more than 1.0 percent by mass of the product shall pass through 75-micron IS Sieve‡.

**2.2.3.1** The portion passing through this sieve shall not contain more than 8 percent by mass of the declared nominal active ingredient when determined by the method described in Appendix A of IS : 7945-1976\*.

**2.2.4 Storage Stability**

**2.2.4.1 Heat Stability** — After storage at  $54 \pm 2^\circ\text{C}$  for 14 days, the product shall continue to comply with the requirements of **2.2.1** to **2.2.4**, **2.3.1** and **2.3.2**.

**2.2.5 Moisture Content** — When determined by the method prescribed in **4** of IS : 6940-1973†, the moisture content of the material shall not exceed 4.0 percent by mass.

**2.3 Chemical** — The material shall comply with the chemical requirements, specified in **2.3.1** and **2.3.2**.

**2.3.1 Trichlorfon Content** — When determined by the method prescribed in Appendix A of IS : 7945-1976\*, the observed trichlorfon content, percent ( *m/m* ), of any of the samples shall not differ from the nominal

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\*Specification for trichlorfon, technical.

†Methods of test for pesticides and their formulations.

‡See IS : 460 ( Part I )-1978 Specification for test sieves: Part I Wire cloth test sieves ( *second revision* ).

value by more than the percent tolerance applied to the declared nominal value as given below:

<i>Nominal Value, Percent</i>	<i>Tolerance</i>	
Up to 9	± 10 — 5	} Percent of the nominal value
10 and below 50	± 5	
50 and above	+ 5 — 3	

**2.3.1.1** The actual value of the trichlorfon content in the formulations shall be calculated to the second decimal place for rounding off to the first decimal place before applying the tolerances given in **2.3.1**.

**2.3.2 Acidity** — When tested by the method prescribed in **11.3** of IS : 6940-1973\*, the acidity as H<sub>2</sub>SO<sub>4</sub>, of the material shall be not more than 0.5 percent by mass.

### 3. PACKING AND MARKING

**3.1 Packing** — The material shall be packed according to the requirements given in IS : 8190 ( Part I ) †.

**3.2 Marking** — The containers shall bear legibly and indelibly the following information and any other information as is necessary under the Insecticides Act and Rules:

- a) Name of the material and particle size ( see **2.2.2** );
- b) Name of the manufacturer;
- c) Date of manufacture;
- d) Batch number;
- e) Net mass of the contents;
- f) Nominal trichlorfon content, percent ( *m/m* ); and
- g) A cautionary notice worded as in the Insecticides Act and Rules.

\*Methods of tests for pesticides and their formulations.

†Requirements for packing of pesticides: Part I Solid pesticides ( *first revision* ) ( under preparation ).

## IS : 9364 - 1980

**3.2.1** The containers may also be marked with the ISI Certification Mark.

**NOTE** — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

## 4. SAMPLING

**4.1** Representative samples of the material shall be drawn as prescribed in 'Indian Standard methods for sampling of pesticides and their formulations' ( *under preparation* ).

**NOTE** — Till such time the standard under preparation is published, the matter shall be as agreed to between the concerned parties.

## 5. TESTS

**5.1** Tests shall be carried out by the appropriate methods referred to in 2.2.1 to 2.2.5, 2.3.1 and 2.3.2.

**5.2 Quality of Reagents** — Unless specified otherwise, pure chemicals and distilled water ( *see IS : 1070-1977\** ) shall be employed in tests.

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

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\*Specification for water for general laboratory use ( *second revision* ).

( Continued from page 2 )

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( Continued on page 8 )

**IS : 9364 - 1980**

( Continued from page 7 )

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## Base Units

QUANTITY	UNIT	SYMBOL
Length	metre	m
Mass	kilogram	kg
Time	second	s
Electric current	ampere	A
Thermodynamic temperature	kelvin	K
Luminous intensity	candela	cd
Amount of substance	mole	mol

## Supplementary Units

QUANTITY	UNIT	SYMBOL
Plane angle	radian	rad
Solid angle	steradian	sr

## Derived Units

QUANTITY	UNIT	SYMBOL	DEFINITION
Force	newton	N	1 N = 1 kg.m/s <sup>2</sup>
Energy	joule	J	1 J = 1 N.m
Power	watt	W	1 W = 1 J/s
Flux	weber	Wb	1 Wb = 1 V.s
Flux density	tesla	T	1 T = 1 Wb/m <sup>2</sup>
Frequency	hertz	Hz	1 Hz = 1 c/s (s <sup>-1</sup> )
Electric conductance	siemens	S	1 S = 1 A/V
Electromotive force	volt	V	1 V = 1 W/A
Pressure, stress	pascal	Pa	1 Pa = 1 N/m <sup>2</sup>

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