

**PRODUCT MANUAL FOR
CHLORPYRIFOS, TECHNICAL
according to IS 8963:2006**

This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure coherence of practice and transparency in operation of certification under Scheme-I of Bureau of Indian Standards (Conformity Assessment) Regulations, 2018 for various products. The document may also be used by prospective applicants desirous of obtaining BIS certification licence/certificate.

1.	Product	:	IS 8963:2006
	Title	:	CHLORPYRIFOS, TECHNICAL
	No. of amendments	:	0
2.	Sampling Guidelines		
a)	Raw material	:	No specific requirement
b)	Grouping Guidelines	:	N.A
c)	Sample Size	:	250 g
3.	List of Test Equipment	:	Please refer Annex – A
4.	Scheme of Inspection and Testing	:	Please refer Annex - B
5.	Possible tests in a day	:	All tests as per IS 8963
6.	Scope of the Licensee :		
	License is granted to use Standard Mark as per IS 8963:2006 with the following scope		
	Name of the product	Chlorpyrifos, Technical	

ANNEXURE –A
To Product Manual for
Chlorpyrifos, Technical
IS 8963 : 2006

LIST OF TEST EQUIPMENT

Major test equipment essentially required to test as per requirements of Indian Standard

Sr.No.	Test Equipment/Chemicals/Glassware	Tests used in with clause reference
1	Gas liquid Chromatograph with flame ionization detector and printer cum plotter cum integrator Injection Volume 2ml Micro syringe 5 microlitre Standard glassware Ethyl Acetate Chlorpyrifos reference standard Dioctyl Phthalate Acetone	3.2, Table 1 Chlorpyrifos content as per Annex A, Method I of 8963:2006 (Alternately, Method II also may be used)
2	Karl Fischer reagent Sodium Tartarate Methanol 2-Methoxyethanol Iodine Pyridine Sulphur dioxide Aluminum Sodium Silicate / Activated Silica Gel Silicon base grease Karl Fischer Titrator Oven Desiccator Analytical weighing balance	3.2, Table 1 Water content
3	Methyl Red Indicator Bromocresol Purple Indicator Ethyl Alcohol Sodium Hydroxide Hydrochloric Acid Acetone Hotplate Weighing Balance Titrator / Burette / pipette	3.2, Table 1 Acidity
4	Erlenmeyer flask Acetone Hotplate Tarred Gooch or Sintered Glass Crucible of porosity No 3 Oven Balance	3.2, Table 1 Material insoluble in acetone

Note: The above list is indicative only and may not be treated as exhaustive.

ANNEXURE – B
To Product Manual for
CHLORPYRIFOS, TECHNICAL
According to IS 8963:2006

SCHEME OF INSPECTION AND TESTING

1. LABORATORY - A laboratory shall be maintained which shall be suitably equipped (as per the requirement given in column 2 of Table 1) and staffed, where different tests given in the specification shall be carried out in accordance with the methods given in the specification.

1.1 The manufacturer shall prepare a calibration plan for the test equipments.

2. TEST RECORDS – The manufacturer shall maintain test records for the tests carried out to establish conformity.

3. PACKING, LABELLING AND MARKING – The Standard Mark, as given in Column (1) of the First Schedule of the licence and Licence Number (i.e. CM/L.....) shall be incorporated, and the marking and packing shall be done as per the provisions of the Indian Standard, provided always that the material in each container to which the Mark is thus applied conforms to every requirement of the specification. In addition, details of BIS website as follows: “For details of BIS certification please visit www.bis.gov.in” shall be given legibly and indelibly on each container or on the label applied to each container.

4. CONTROL UNIT – For the purpose of this Scheme, the entire quantity of Chlorpyrifos, Technical produced continuously at a time in a reaction vessel in a period of 24 hours or part thereof shall constitute a control unit.

5. LEVELS OF CONTROL - The tests as indicated in column 1 of Table 1 and the levels of control in column 3 of Table 1, shall be carried out on the whole production of the factory which is covered by this plan and appropriate records maintained in accordance with paragraph 2 above.

5.1 All the production which conforms to the Indian Standard and covered by the licence should be marked with Standard Mark.

6. REJECTIONS – Disposal of non-conforming product shall be done in such a way so as to ensure that there is no violation of provisions of BIS Act, 2016.

ANNEXURE B
To Product Manual for
CHLORPYRIFOS, TECHNICAL
According to IS 8963:2006

SCHEME OF INSPECTION AND TESTING

TABLE 1: LEVELS OF CONTROL

(1)				(2)	(3)		
Test Details				Test equipment requirement R: required (or)S: Sub-contracting permitted	Levels of Control		
Clause	Requirements	Test Methods			No. of Sample	Frequency	Remarks
		Clause	Reference				
3.1	Description	3.1	IS 8963	R	One	Each control unit	
3.2, Table 1	Chlorpyrifos Content	Annex A	-do-	R	Two	-do-	One sample each to be drawn from first and second half of production. Both the sample should pass.
-do-	Water content	4.1	IS 6940	R	One	-do-	
-do-	Acidity	11.3.2	IS 6940	R	-do-	-do-	
-do-	Material insoluble in acetone	9	IS 6940	R	-do-	-do-	

Note-1: Levels of control given in column 3 are only recommendatory in nature. The manufacturer may define the control and submit his own levels of control in column 3 with proper justification for approval by BO Head.

Note-2: Whether test equipment is required or sub-contracting is permitted in column 2 shall be decided by the Bureau and shall be mandatory. Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empaneled by the Bureau.