PRODUCT MANUAL
FOR ACEPHATE SP ACCORDING TO IS 12916 : 1990

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 12916 : 1990
a)	**Title**	**:**	Acephate SP - Specification
b)	**No. of amendments**	**:**	01
2.	**Sampling Guidelines**		
a)	**Raw material**	**:**	Acephate technical employed in the formulation of of Acephate SP shall conform to IS 12915.
b)	**Grouping Guidelines**	**:**	NA (No varieties for the product mentioned in IS)
c)	**Sample Size**	**:**	500 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 :**		
	i. Description ii. Acephate content iii. Acidity		
6.	**Scope of the Licence :**		
	“Licence is granted to use Standard Mark as per IS 12916:1990with the following scope:		
	Name of the product	Acephate (75 %) SP	

ANNEX – A

TO PRODUCT MANUAL
FOR ACEPHATE SP ACCORDING TO IS 12916 : 1990

LIST OF TEST EQUIPMENT

Major test equipment required to test as per the Indian Standard

Sr. No.	Tests used in with Clause Reference	Test Equipment
1.	Acephate content Cl 3.3 & Table 1 (Annex A of IS 12915)	**Gas Liquid Chromatograph (GLC) Method-** **Gas Liquid Chromatograph** unit fitted with a hydrogen flame ionization detector and also a printer-plotter-cum- integrator, Microlitre Syringe, Internal Standard solution di-butyle phthalate –AR grade or GCL grade, Standard Acephate of known purity, Methylene Chloride, AR grade, Analytical balance (0-200 gm, LC-0.01 mg), Volumetric flask.
2.	Acidity Cl 3.3 & Table 1 (Cl 11.3 of IS 6940)	Acetone, Hotplate, Weighing Balance (0-200 gm, LC-0.01 mg), Titrator / Burette / pipette, Methyl red indicators solution aqueous-one percent, Bromocresol purple indicator solution. Standard sodium hydroxide solution - 0·05 N, Standard hydrochloric acid - 0·05 N.

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

ANNEX - B

SCHEME OF INSPECTION AND TESTING FOR ACEPHATE SP ACCORDING TO IS 12916 : 1990

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 equipment.

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

3. PACKING AND MARKING –The Standard Mark as given in Schedule of the licence shall be stenciled/printed on each container of Acephate SP or printed on the labels applied to the container, as the case may be, provided always that the material in each container to which this mark is thus applied conforms to every requirement of the specification.

3.1 Packing and Marking shall be done as per the provision of the Indian Standard. In addition, the following details shall be mentioned on each container legibly and indelibly:

a) BIS LicenceNo. CM/L_____.
b) BIS website details i.e – "For details of BIS certification please visitwww.bis.gov.in"

4. CONTROL UNIT – For the purpose of this scheme, the entire quantity of the Acephate SP manufacture in one shift on 8 hours 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 Standards and covered by the licence should be marked with Standard Mark.

5.2 On the basis of tests and analysis results, the decision regarding conformity or otherwise of a control unit shall be taken as follows:

5.2.1 A sample shall be drawn from each control unit and tested for all the requirements of the specification. If the sample fails in any of the requirements tested other than Acephate content requirement, the entire quantity of the material in the control unit shall be considered as unfit for the purpose of marking.

5.2.2 In case the sample fails in Acephate content the control unit shall be reprocessed and defect rectified. Such reprocessed material, when tested again shall satisfy all the requirements of the specification.

6. RAW MATERIAL – Acephate technical used in the formulation of Acephate SP shall conform to IS 12915. A certificate to that effect shall be necessary from the supplier for each consignment of the Acephate Technical received in the factory. Alternatively a sample from each consignment shall be tested for its conformity to the IS 12915 and records maintained. However no certificate or testing may be necessary if the material bears the standard mark of the Bureau.

7. 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.

TABLE 1

LEVELS OF CONTROL

(1)				(2)	(3)		
Test Details				Test equipment requirement R: required (or) S: Subcontracting permitted	Levels of control		
Cl.	Requirements	Test Methods Cl. Ref.	Test Method IS		No. of sample	Frequency	Remarks
3.1	Description	3.1	IS 12916	R	One	Each control unit	See clause 5 of SIT
3.3.1 & Table1	Acephate content	Annex A	IS 12915	R	-do-	-do-	
3.3 & Table1	Acidity	11.3	IS 6940	R	-do-	-do-	

Note-1: 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.

Note-2: Levels of control given in column 3 are only recommendatory in nature. The manufacturer may define the control unit/batch/lot and submit his own levels of control in column 3 with proper justification for approval by BO Head.