5.2 **TECHNICAL CONCENTRATES** **(TK)**

Note for preparation of draft specifications. Do not omit clauses or insert additional clauses, nor insert limits that are more lax than those than given in the guidelines, without referring to section 4. From the “Notes” provided at the end of this guideline, incorporate only those which are applicable to the particular specification.

**...... [ISO common name] TECHNICAL CONCENTRATE**

[CIPAC number]/TK (month & year of publication)

5.2.1 **Description**

 The material shall consist of …… [ISO common name] together with related manufacturing impurities, in the form of ...... (see Section 4.2), and shall be …… [physical description] free from visible extraneous matter and added modifying agents except for the diluent and stabilizer, if required.

5.2.2 **Active ingredient**

 5.2.2.1 **Identity tests** (Note 1)

 The active ingredient shall comply with an identity test and, where the identity remains in doubt, shall comply with at least one additional test.

 5.2.2.2 **...... [ISO common name] content** (Note 1)

 The …… [ISO common name] content shall be declared (g/kg or, for liquids only, g/l at 20 ± 2 °C,) and, when determined, the average measured content shall not differ from that declared by more than the appropriate tolerance, given in the table of tolerances, Section 4.3.2.

 5.2.2.3 **Any other clause** (Note 1), if required

 Such as isomer ratio.

5.2.3 **Relevant impurities**

 5.2.3.1 **By-products of manufacture or storage** (Note 2), if required

Maximum: ......% of the …… [ISO common name] content found under 5.2.2.2.

 5.2.3.2 **Water** (MT 30.5) (Note 3), if required

 Maximum: ...... g/kg.

 5.2.3.3 **Insolubles** (Notes 3 & 4), if required

 Maximum: ...... g/kg.

5.2.4 **Physical properties**

 5.2.4.1 **Acidity** and/or **Alkalinity** (MT 191) or **pH range** (MT 75.3) (Notes 3 & 4), if required

 Maximum acidity: ...... g/kg calculated as H2SO4.

 Maximum alkalinity: ...... g/kg calculated as NaOH.

 pH range: ...... to ......

 5.2.4.2 **Any other clause** (Note 4)

 Such as a sieve test, kinematic viscosity range, specific gravity, etc.

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Note 1 Method(s) of analysis must be CIPAC, AOAC or equivalent. If the methods have not yet been published then full details, with appropriate method validation data, must be submitted to FAO/WHO by the proposer.

Note 2 This clause should include only relevant impurities and the title should be changed to reflect the name of the relevant impurity. Method(s) of analysis must be peer validated.

Note 3 Clauses to be included only if appropriate to the material.

Note 4 The method to be used shall be stated. If several methods are available, a referee method shall be selected.