

**AMENDMENTS TO THE SECOND REVISION OF THE FIRST EDITION OF THE  
MANUAL ON DEVELOPMENT AND USE OF FAO AND WHO SPECIFICATIONS FOR PESTICIDES**

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| P.21 | A. 10.1. WHO classification by hazard  | A.10.1 WHO classification by hazard, <a href="#">where these exist</a> .   | JMPS 2011 Closed Meeting |
| P.45 | "Free" active ingredient<br>Method<br>Appropriate test method not available for CG. For CS, CIPAC has adopted the MT methods 188 and 189 (free parathion-methyl, free-lambda-cyhalothrin).   | "Free" active ingredient<br>Method<br><a href="#">Appropriate test methods need to be available. For parathion-methyl CS formulations and lambda-cyhalothrin CS formulations, CIPAC has adopted the MT methods 188 and 189.</a>  | JMPS 2011 Closed Meeting |
| P.52 | MT 185 (Wet sieve test)<br>Applicability<br>Wettable powders (WP); suspension concentrates including those for seed treatment and oil-based (SC, FS and OD); water dispersible granules (WG); aqueous capsule suspensions (CS); dispersible concentrates (DC); suspo-emulsions (SE); water-soluble and dispersible tablets (ST and WT); and emulsifiable granules and powders (EG and EP). | MT185 (Wet sieve test)<br>Applicability<br>Wettable powders (WP); suspension concentrates including those for seed treatment and oil-based (SC, FS and OD); <a href="#">water dispersible powders for slurry seed treatment (WS)</a> , water dispersible granules (WG); aqueous capsule suspensions (CS); dispersible concentrates (DC); suspo-emulsions (SE); water-soluble and dispersible tablets (ST and WT); and emulsifiable granules and powders (EG and EP). | JMPS 2011 Closed Meeting |
| P.52 | Dry sieve test<br>Applicability<br>Powders and granules intended for direct application.<br>Methods<br>MT 59.1 Dustable powders (DP);<br>MT 58 Granular formulations (GR);<br><br><sup>1</sup> <a href="#">MT 59.3</a> is no longer supported and should not be used with new specification proposals, but remains valid in support of existing specifications.                            | Dry sieve test<br>Applicability<br>Powders and granules intended for direct application<br>Methods<br>MT 59.1 Dustable powders (DP) <sup>1</sup> ;<br>MT 58 Granular formulations (GR) <sup>1</sup> ;<br><br><sup>1</sup> <a href="#">MT 59.1 and MT 58 are</a> no longer supported and should not be used with new specification proposals, but remains valid in support of existing specifications.  | JMPS 2011 Closed Meeting |

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| P.58, 100, 103, 135, 159, 163, 173, 178 | MT 180 (Dispersion stability of suspo-emulsions)<br>Requirement: 30 ± 2 °C (unless other temperatures are required)                               | Requirement: 25 ± 5 °C ( <del>unless other temperatures are required</del> )  | JMPS 2011 Closed Meeting |
| P.58                                    | Emulsion stability and re-emulsification<br>Applicability<br>Emulsifiable concentrates (EC), emulsion, oil in water (EW) and microemulsions (ME). | Emulsion stability and re-emulsification<br>Applicability<br>Emulsifiable concentrates (EC), emulsion, oil in water (EW), <u>emulsions for seed treatment (ES)</u> and microemulsions (ME). | JMPS 2011 Closed Meeting |
| P.60                                    | <u>MT 172</u> Flowability of water dispersible granules after heat test under pressure.   | <u>MT 172.1</u> Flowability of granular preparations <u>after accelerated storage</u> under pressure.   | JMPS 2011 Closed Meeting |
| P.62, P.121, P.124                      | <u>MT 41</u> (Dilution stability of aqueous solutions)  | <u>MT 41.1</u> (Dilution stability of aqueous solutions)  | JMPS 2011 Closed Meeting |
| P.69                                    | 5.1.4.1 (Note 3)  | 5.1.4.1 (Note 3 & 4)  | JMPS 2011 Closed Meeting |
| P.73 & P.79 & P.92 & P.96 & P.117       | Relevant impurities<br>6.13.3.2 Water (MT 30.5)   | Relevant impurities<br>6.13.3.2 Water (MT 30.5), <u>if required</u>   | JMPS 2011 Closed Meeting |
| P.79                                    | Nominal size range ( <u>MT58</u> )  | Nominal size range ( <u>MT170</u> )   | JMPS 2011 Closed Meeting |
| P.79 & P.93 & P.113 & P.222             | MT 171 (Dustiness)<br><u>Essentially non-dusty</u> .  | MT 171 (Dustiness)<br><u>"nearly dust free" or "essentially non-dusty"</u> .  | JMPS 2011 Closed Meeting |
| P.85                                    | 6.11.4.3 MT 184 (Suspensibility)<br>In the case of water soluble bag packaging, the provisions of clause 6.11.6.4 should be applied.              | In the case of water soluble bag packaging, the provisions of clause <u>6.11.6.2</u> should be applied.   | JMPS 2011 Closed Meeting |

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| P.85 and 86                                    | MT 184 Suspensibility<br><u>Note 6</u><br>This test will normally only be carried out after the heat stability test 6.11.5.1.   | Deletion  | JMPS 2011 Closed Meeting |
| P.86 & P.93 & P.106 & P.113                    | Storage stability<br>- by-products of manufacture or storage,<br>- acidity/alkalinity/pH range,<br>- wet sieve test,<br>- dissolution of the bag,<br>- suspensibility,  | Storage stability<br>- by-products of manufacture or storage,<br>- acidity/alkalinity/pH range,<br>- wet sieve test,<br>- dissolution of the bag,<br>- suspensibility,<br>- <u>persistent foam (only WP-SB, WG-SB SP-SB and SG-SB products)</u> | JMPS 2011 Closed Meeting |
| P.91 & P.112                                   | Description<br>The formulation shall be dry, free flowing, <u>essentially non-dusty</u> , and free from visible extraneous matter and hard lumps.   | Description<br>The formulation shall be dry, free flowing, <u>nearly dust free or essentially non-dusty</u> , and free from visible extraneous matter and hard lumps.   | JMPS 2011 Closed Meeting |
| P.93, P95 (note 13), P100, P101, P.113 & P.115 | <u>MT 172</u>   | <u>MT 172.1</u>   | JMPS 2011 Closed Meeting |
| P.98   | To determine tablet integrity (6.14.4.6), disintegration time (6.14.4.2), or storage stability (6.14.5.1), the tablet(s) must not be broken for the purpose, prior to the test.   | To determine tablet integrity (6.14.4.6), disintegration time (6.14.4.2), <u>degree of attrition (6.14.4.7)</u> or storage stability (6.14.5.1), the tablet(s) must not be broken for the purpose, prior to the test.                           | JMPS 2011 Closed Meeting |
| P.102  | Introduction<br>Water emulsifiable powders are treated in a similar fashion to <u>water dispersible powders (WP)</u> , emulsifiable granules (EG) and emulsifiable concentrates (EC), as they disperse and emulsify on dilution in water. | Introduction<br>Water emulsifiable powders are treated in a similar fashion to <u>wettable powders (WP)</u> , emulsifiable granules (EG) and emulsifiable concentrates (EC), as they disperse and emulsify on dilution in water.                | JMPS 2011 Closed Meeting |

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| P.106 & P.113 | Persistent foam<br>If required,  | Persistent foam<br>(Deletion of if required)   | JMPS 2011 Closed Meeting |
| P.108         | Note 12<br>It shall be used to carry out the dissolution test (6.21.6.1).<br>Aliquots of an aqueous solution of the bag material shall be used in the <u>suspensibility (6.21.6.2)</u> and persistent foam (6.21.6.3) tests. | Note 12<br>It shall be used to carry out the dissolution test (6.21.6.1).<br>Aliquots of an aqueous solution of the bag material shall be used in the <u>degree of dissolution and solution stability (6.21.6.2)</u> and persistent foam (6.21.6.3) tests.                   | JMPS 2011 Closed Meeting |
| P.110         | 6.22.3.2 Insolubles  | <del>delete 6.22.3.2</del>   | JMPS 2011 Closed Meeting |
| P.118         | To determine:<br>- tablet integrity,<br>- disintegration time,<br>- degree of dissolution / solution stability,<br>- storage stability,<br>the tablet(s) must not be broken for the purpose, prior to the test.              | To determine:<br>- tablet integrity,<br>- disintegration time,<br>- degree of dissolution / solution stability,<br>- <u>wet sieve test,</u><br>- <u>Degree of attrition,</u><br>- storage stability,<br>the tablet(s) must not be broken for the purpose, prior to the test. | JMPS 2011 Closed Meeting |
| P.121, P.124  | Solution stability (MT 41)<br>7.1.4.2: for 18 h; 45 µm<br>7.2.4.2: for 18 h; 45 µm   | Solution stability (MT 41.1)<br>7.1.4.2: for <u>24 h; 75 µm</u><br>7.2.4.2: for <u>24 h; 75 µm</u>   | JMPS 2011 Closed Meeting |
| P.124/125     | Solution stability (MT41) <u>(Note 7)</u><br><u>Note 7</u><br>Only applied to water miscible solutions.  | <del>Deletion of Note 7</del>  | JMPS 2011 Closed Meeting |
| P.129         | Viscosity, if required (MT192)   | Viscosity, if required (MT192 <u>or MT22</u> )   | JMPS 2011 Closed Meeting |

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| P.129                                  | <p>7.4.5.1 Stability at 0°C (MT 39.3)<br/>After storage at 0 ± 2°C for 7 days, the volume of solid and/or liquid which separates shall not be more than 0.3 ml (Note 5).</p> <p>7.4.5.2 Stability at elevated temperature (MT 46.3)<br/>After storage at 54 ± 2°C for 14 days (Note 6), the determined average active ingredient content must not be lower than .....% relative to the determined average content found before storage (Note 7) and the formulation shall continue to comply with the clauses for:</p> | <p>7.4.5.1 Stability at 0°C (MT 39.3)<br/>After storage at 0 ± 2°C for 7 days, the volume of solid and/or liquid which separates shall not be more than 0.3 ml (Note 6).</p> <p>7.4.5.2 Stability at elevated temperature (MT 46.3)<br/>After storage at 54 ± 2°C for 14 days (Note 7), the determined average active ingredient content must not be lower than .....% relative to the determined average content found before storage (Note 8) and the formulation shall continue to comply with the clauses for:</p> | JMPS 2011 Closed Meeting |
| P.131<br>P.182                         | Water (MT 30.5) (Note 4)   | Water (MT 30.5) (Note 4), <u>if required</u>   | JMPS 2011 Closed Meeting |
| P.141 &<br>P.151                       | MT 47.2 (Persistent foam)  | MT 47.2 (Persistent foam), <u>if required</u>  | JMPS 2011 Closed Meeting |
| P.162 &<br>P.166 &<br>P.171 &<br>P.176 | Information about other properties may also be given, e.g. mass per milliliter <u>and flash point</u> (if relevant), but these parameters do not normally constitute essential parts of the specification.   | Information about other properties may also be given, e.g. mass per milliliter (if relevant), but these parameters do not normally constitute essential parts of the specification.  | JMPS 2011 Closed Meeting |
| P.164                                  | <p>MT 39.3 (Stability at 0°C)</p> <p><u>- acidity/alkalinity/pH range.</u></p> <p>- dispersion stability,</p> <p>- wet sieve test,</p>   | <p>MT 39.3 (Stability at 0°C)</p> <p>- dispersion stability,</p> <p>- wet sieve test,</p>  | JMPS 2011 Closed Meeting |