

CERTIFICATE OF ANALYSIS

Product name: Thiamethoxam 500 g/Kg WG

Chemical Name (IUPAC):

(EZ)-3-(2-chloro-1,3-thiazol-5-ylmethyl)-5-methyl-1,3,5-oxadiazinan-4-ylidene(nitro)amine

CAS No.: 153719-23-4

Manufacture Date: 2011-6-4

Batch No.: DN2011060402

| Item | Standard | Result | Method |
|--|--|------------|----------------|
| Appearance | Beige to brown granules | yes | N/A |
| A.I. | 475~525 g/Kg | 506 g/Kg | HPLC |
| pH range | 7.0~10.0 (1% aqueous dispersion) | 9.4 | CIPAC MT 75.3 |
| Water content | Maximum 20 g/Kg | 10 g/Kg | CIPAC MT 30.5 |
| Wettability | The formulation shall be completely wetted in 1 minute without swirling | 13 seconds | CIPAC MT 53.3 |
| Suspensibility | A minimum of 70% of the Thiamethoxam content found of the original content shall be in the suspension after 30 min in CIPAC standard water D at 30±2°C. | 92% | CIPAC MT 184 |
| Wet sieve test | Maximum 0.5% of the formulation shall be retained on a 75 µm test sieve. | 0.0% | CIPAC MT 185 |
| Persistent foaming | Maximum 60 ml after 1 minute. | 19ml | CIPAC MT 47.2 |
| Degree of dispersion | Dispersibility: Minimum 85% after 1 minute of stirring. | 98% | CIPAC MT 174 |
| Dustiness | Essentially dust free | 1 mg | CIPAC MT 171 |
| Flowability | At least 99% of the formulation shall pass through a 5 mm test sieve after 20 drops of the sieve. | 99.9% | CIPAC MT 172 |
| Attrition resistance | Minimum 96% attrition resistance. | 98.7 % | CIPAC MT 178.2 |
| Storage stability at elevated temperature | After storage at 54±2 °C for 14 days, the determined average active ingredient content must not be lower than 95% relative to the determined average content found before storage and the formulation shall continue to comply with the requirement. | 99.5% | CIPAC MT 46.3 |

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