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Evaluation of Zerust VCI-1 Vapor Capsule

Background: A VCI-1 Zerust Vapor Capsule was obtained from a trade show in

Sweden by Bo Andersson. The sample was submitted to Cortec by Dario

Dell'Orto for evaluation of its VCI content.

Note: It has been two years since Cortec tested this product, and it is

believed that Zerust has changed their VCI ingredients.

Purpose: Analyze and verify the VCI content of the Zerust vapor capsule.

Methods: Gas Chromatography

NO₂/NO₃ Test

Materials: HP5890 A Gas Chromatograph, Hewlett Packard, Charlotte, NC

HP5970 B Mass Selective Detector, Hewlett Packard, Charlotte, NC

EM Quant NO₂ Test Strips, EM Industries Inc., Gibbstown, NJ (charge/lot # 80280225, Jan 01)

EM Quant NO₃ Test Strips, EM Industries Inc., Gibbstown, NJ

(charge/lot # 80322977, Jul 01)

Procedure: The above tests were performed according to standard procedures for each.

Results: Gas Chromatography: According to the acquired spectra, the vapor

capsule contains benzotriazole.

 NO_2/NO_3 Test: The test strips reveal the presence of nitrites in the vapor capsule.

Conclusion: Based on the results from both of the above tests, the Zerust VCI-1 Vapor

Capsule contains a salt of nitric acid (most likely dicyclohexylammonium

nitrite) and benzotriazole.



