

**ORGANIC VOLATILE IMPURITIES / RESIDUAL SOLVENTS**

(PPS253 Rev. 1.3, 02/18, KMC)

RE: **FORMIC ACID**– all grades sold by Greenfield Global USA Inc. – Organic Volatile Impurities, or Class 1, 2, and 3 Residual Solvents, as defined by the current USP General Chapter <467>.

**Class 1 Solvents:** Greenfield Global USA Inc. maintains dedicated storage and handling systems for **FORMIC ACID**. Greenfield Global USA Inc. neither uses nor has any reason to suspect that any other Class 1 solvents are produced in the manufacturing process. These Class 1 solvents include Benzene, Carbon tetrachloride, 1,2-Dichloroethane, 1,1-Dichloroethene, and 1,1,1-Trichloroethane.

**Class 2 Solvents:** Greenfield Global USA Inc. maintains dedicated storage and handling systems for **FORMIC ACID** and neither uses nor has any reason to suspect that Class 2 solvents, including but not limited to Chloroform, 1,4-Dioxane, Methylene Chloride, Trichloroethylene, are produced in the manufacturing process.

**Class 3 Solvents:** **FORMIC ACID** may contain up to 4000ppm Acetic Acid. Typical levels of this contaminant are in amounts that are far below the concentration limit stated in Table 3 “Class 3 Residual solvents” found in the current USP General Chapter <467> General Chapter <467>.

**FORMIC ACID** itself would be considered a Class 3 Residual Solvent if found in any other solvent.

**Other Residual Solvents:** **FORMIC ACID** does not contain any Other Residual Solvents found in Table 4 “Other Residual Solvents” found in the current USP General Chapter <467>.