

ORGANIC VOLATILE IMPURITIES / RESIDUAL SOLVENTS

(PPS327, Rev. 1.1, 02/18, KMC)

RE: **Propylene Glycol** – 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/NF General Chapter <467>.

None of the solvents listed as Class 1, Class 2, Class 3 or those listed in Table 4 are used as raw materials or processing aids, none are expected to be by-products of the manufacturing process, and none are added to the final product. Greenfield Global USA Inc. neither uses nor has any reason to suspect that any other Class 1, Class 2, Class 3 or other residual solvents are produced in the manufacturing process.

Propylene Glycol is manufactured by the reaction of propylene oxide and water and no other solvents are used. In routine analyses of this product, propylene oxide is not detected. Dipropylene glycol, which is typically present at 0.10-0.20%, is not currently listed in the current USP General Chapter <467> as a residual solvent.