



ORGANIC VOLATILE IMPURITIES / RESIDUAL SOLVENTS

(PPS259, Rev. 1.3, 02/18, KMC)

RE: **Hexylene 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> and International Conference on Harmonization *Q3C Impurities: Residual Solvents*.

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

Class 3 Solvents: Although NOT used as solvents at any point in the manufacturing of Hexylene Glycol, following chemicals listed as Class 3 Residual Solvents may appear as impurities / related substances / low level contaminants in Hexylene Glycol:

Acetone up to 500ppm

Isopropyl Alcohol up to 60ppm

Typical levels of these contaminants are in amounts that are far below the concentration limit stated in Table 3 “Class 3 Residual solvents” found in the current USP/NF General Chapter <467>.

Other Residual Solvents: Hexylene Glycol does not contain any Other Residual Solvents found in Table 4 “Other Residual Solvents” found in the current USP/NF General Chapter <467>.