

PRODUCT SPECIFICATIONS

Product: US-450

INCI Name: HDI/Trimethylol Hexyllactone Crosspolymer (And) Polymethylsilsesquioxane

| <u>Test ID</u> | <u>Test Name</u> | <u>Specification</u> | | | <u>Test Method</u> |
|----------------|---------------------------|---|----------|--------------------------|----------------------------------|
| | | <u>Min</u> | <u>/</u> | <u>Max</u> / <u>Text</u> | |
| 001A | Appearance | White to Pale Yellow Powder | | | Visual |
| 002A | Odor | Odorless to Faint Odor | | | Organoleptic |
| 010A2 | Loss on Drying, % | 0.00 | | 1.50 | 2 hrs @ 110° C |
| 012B | Microbiology | Total bacterial count < 100/g (ml); Yeast and mold < 100/g (ml); No gram negative or positive | | | Current USP Microbial Limit Test |
| 021F1 | Residual HDI, ppm | 10 ppm Max | | | GC-MS |
| 024C1 | Average Particle Size, µm | 15.0 | | 21.0 | Laser Diffraction |
| 025E | pH 5% Aq. Solution | 5.50 | | 8.50 | pH meter |
| 027F2 | Arsenic, ppm | 0 | | 2 | AAS |
| 029H2 | Lead, ppm | 0 | | 10 | AAS |
| 036A | Identification | To Match Standard | | | IR |
| 042B1 | Residue on Ignition, % | 7.00 | | 8.00 | 1 g, 600° C, 2hr |
| 996A | * Notes on Storage | Store under dry conditions and keep containers closed. | | | |
| 998A | * Note | | | | |