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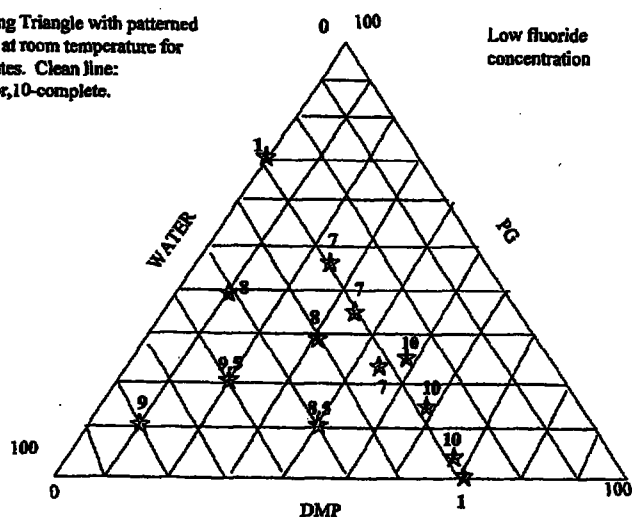
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(54) Title: LACTAM COMPOSITIONS FOR CLEANING ORGANIC AND PLASMA ETCHED RESIDUES FOR SEMICONDUCTOR DEVICES

Cleaning Triangle with patterned wafers at room temperature for 5 minutes. Clean line: 1 - poor, 10 - complete.



(57) Abstract: A composition for the cleaning of residues from substrates from about 0.01 percent by weight to about 10 percent by weight of one or more fluoride compounds, from about 20 percent by weight to about 50 percent by weight water, from about 20 percent by weight to about 80 percent by weight of a lactam solvent and from 0 to about 50 weight percent of an organic sulfoxide or glycol solvent. The composition has a pH between about 2 and about 10. Additionally, the composition optionally contains corrosion inhibitors, chelating agents, surfactants, acids and bases. In use of the composition, a substrate is contacted with the composition for a time and at a temperature that permits cleaning of the substrate.

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