1.0 SCOPE

THIS SPECIFICATION COVERS THE PREPARATION, HANDLING, AND DISPOSAL OF CE1155A/B AND S-8 THINNER FOR USE IN CONFORMAL COATING OF ELECTRONIC P.C. ASSEMBLIES.

2.0 APPLICABLE DOCUMENTS

- NASA SPECIFICATION NHB 5300.4(3J).
- GSFC INSPECTION OF POLYMERIC MATERIALS-APPLICATIONS MANUAL.
- CONAP PRODUCTS CO. TECHNICAL INFORMATION BULLETIN FOR CONATHANE CE1155
- CONAP PRODUCTS CO. MSDS SHEET FOR CONATHANE CE1155

3.0 HANDLING

- HANDLING IN ACCORDANCE WITH CE1155 AND S-8 MSDS SHEET.
- FIRE AND TOXICITY- HAZARDS HIGH.
- REACTIVITY- HAZARDS SLIGHT.
- HANDLE WITH VINYL GLOVES. MIX IN FUME HOOD.
- PRE-HEAT UPON RECEIPT IF CRYSTALINE. 1 HOUR@60C

4.0 DISPOSAL

- CURED SAMPLE TO BE STORED AS WITNESS SAMPLE FOR A MINIMUM OF 30 DAYS; THEREAFTER, DISPOSE WITH DAILY TRASH DISPOSAL.
- UNCURED LIQUID TO BE DISPOSED OF VIA CSR SAFETY PERSONNEL THROUGH M.I.T. SAFETY OFFICE.

5.0 MIXING PROCEDURE

- CONATHANE CE1155 WILL REACT WITH MOISTURE; THEREFORE:
  - CLEAN BEAKERS, MIXING RODS, SPATULAS, ALUMINUM DISHES, ETC
WITH REAGENT GRADE ISOPROPYL ALCOHOL PRIOR TO USE.

- PREPARE CE1155 PART A
  - DRAW PART A FROM CAN USING SYRINGE.
  - USING OHAUS CT 1200 SCALE, PLACE 100 GRAMS OF CE1155 PART A IN A CLEAN DRY BEAKER.
  - PURGE BEAKER WITH NITROGEN AND COVER WITH ALUMINUM FOIL.
  - PURGE CE155 PART A CAN WITH NITROGEN AND COVER.

- ADD PART B TO PART A
  - USING OHAUS CT 1200 SCALE, ADD 70 GRAM OF CE1155 PART B TO PART A IN BEAKER. (OF COURSE, USING NEW SYRINGE.)
  - PURGE CE155 PART B CAN WITH NITROGEN AND COVER.
  - S-8 THINNER CAN BE ADDED PER NEED UP TO 10% BY WEIGHT.
  - MIX WITH METAL SPATULA FOR 2 MINUTES. (GENTLY, DO NOT AERATE.)
  - SEPARATE CONTROL SAMPLE FROM BEAKER AND PLACE IN OVEN AT 100°C FOR 5 MINUTES
  - EVACUATE BEAKER FOR 2-3 MINUTES. (OPTIONAL)
  - APPLY TO PC ASSEMBLY PER CONFORMAL COAT WORKSHEET.

- CURE-
  - TACK-FREE OVERNIGHT
  - FULL CURE – 5-7 DAYS @ 25°C OR 3 HOURS @ 60°C