PROJECT NO. _____ DATE: 1/06/04 SUBJECT: MATERIAL SAFETY DATA SHEET MSDS: Herculite, Meridian, Weblon Tent & Awning

HERCULITE® LABORATORY REPORT

I. PRODUCT IDENTIFICATION

Trade name: Architent[®], Brite Awn[®], Canopy[®] FS, Canopy[®] Plus, Coastline Plus[®], Meridian[®], Showtime[®], ValuTent[®], ValuTent[®], WideSide[®]

Description: Laminated Vinyl-Synthetic Fabric Manufacturer: Herculite Products, Inc. Address: P.O. Box 435, Emigsville, Pa. 17318 USA Phone: 717-764-1192; 1-800-772-0036

II. INGREDIENTS

The precise composition of this product is proprietary. While several of its components could be considered hazardous in pure form, none is significantly hazardous as compounded, due to dilution, encapsulation, etc. Under conditions of combustion, toxic gases, including hydrogen chloride and phthalic anhydride, are generated (Nylon-containing styles generate small amounts of hydrogen cyanide in combustion). Barium (Ba), Cadmium (Cd) and Zinc (Zn) are present in very low concentrations (of the order of 500 ppm). Various pigment systems contain lead chromate yellow and molybdate orange. Low concentrations (less than 5%) of aluminum and antimony oxides are present as flame retardants. Some fabrics contain an EPA registered antimicrobial (10-10' - oxybisphenoxarsine) which is used to protect the material (less than EPA maximum of 500 PPM).

III. PHYSICAL DATA

Boiling point: >500°F Melting point: (approx.) 370°F Specific gravity: (approx.) 1.25 Vapor pressure: (392°F): >1.1 mmHg Vapor density: > 10 (Air = 1) Solubility in H₂O: .005 (% by weight) %Volatiles by volume: (approx.) 25 (High temp. only) Evaporation rate: (approx.) 0 @ room temp. (butyl acetate = 1) Appearance and odor: laminated vinyl-synthetic fabric; little or no odor.

IV. FIRE AND EXPLOSION DATA

Flash point: 450°F C.O.C. Autoignition temp.: 520°F Extinguishing media: water, CO₂, chemical. Special fire fighting procedures: Unusual fire and explosion hazard: releases HCl and HCN gases (HCN in nylon styles only) when burned. No explosion hazard.

V. HEALTH HAZARD INFORMATION

The only significant hazards from this product arise under conditions of combustion or elevated temperatures (approximately 250°F and above), due to evolution of gases and vapors, including hydrogen chloride, phthalic anhydride, oxides of carbon, and minute amounts of vapor-phase heavy metals, including cadmium, antimony, lead, chromium, molybdenum, and barium. Nylon-containing styles evolve hydrogen cyanide, individual sensitivities of an allergic nautre cannot be predicted. In case of exposure to combustion gases, remove to fresh air, flush eyes and accessible mucous membranes with water, and consult physician if difficulty in breathing or burning sensation in chest is experienced.

VI. REACTIVITY DATA

Product is stable at normal use temperature, but may liberate HCl gas at temperatures from 250°F to 400°F depending on exposure time. Liberates HCl and HCN (HCN in nylon styles only) under pyrolysis conditions. Hazardous polymerization will not occur.

VII. SPILL OR LEAK PROCEDURES

No spill or leak hazard. Scrap can be landfilled. Consult local and federal regulations.

VIII. SPECIAL PROTECTION INFORMATION

No special protection except under conditions of fire or elevated temperatures (250°F for more than a few minutes). Under such conditions, eye, skin, and respiratory protection is advised.

IX. TRANSPORTATION DATA

National Motor Freight Classification (NMFC) 49210, Class 65.

X. SPECIAL PRECAUTIONS

Temperature range for storage: -40°F to 150°F.

XI. DISCLAIMER

The information provided herein is true and accurate to the best of our knowledge. Although compiled by competent technical personnel, no guarantee or warranty is herein expressed or implied, as to the completeness or correctness thereof. Since the exact conditions of use of our products are beyond our control, any liability with regard to such use is hereby disclaimed. Nothing herein is to be taken as advising the infringement of any patent, or violation of any legal statute.

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