TECHNICAL BULLETIN # 3

1. National Bureau of Standards Voluntary Product Standard **PS 17-69**: **COMPLIES**

2. Federal Specification **LP 378D**, Type 1, Class 1, Grade A, Finish 1: **COMPLIES**

3. American Society for Testing and Materials **ASTM D 4397-91** Standard Specification for polyethylene Sheeting for Construction, Industrial, and Agricultural Applications: **COMPLIES**

4. **ASTM E-96-90**, requiring that water vapor permeance shall be no greater that 1.40 grams per 100 square inches per 24 hours for film 1 mil thick, inversely proportional for other thickness. Expressed in perms, not to exceed:

.001" (1 Mil)	0.76 Perms		.008" (8 Mil)	0.10 Perms	
.002" (2 Mil)	0.38 "		.010" (10 Mil)	0.076 "	
.004" (4 Mil)	0.19 "		.015" (15 Mil)	0.057 "	
.006" (6 Mil)	0.13 "		.020" (20 Mil)	0.038 "	**COMPLIES**

5. **ASTM G-156**, Moisture Retention, requiring that loss of water will not exceed 0.055 G/CM2: **COMPLIES**

6. **ASTM D-882-91** Method A requiring the following mechanical properties:

	Lengthwise	Crosswise	
Tensile Strength, psi	1700	1200	
Elongation, %	350	225	**COMPLIES**

7. Federal Specification **LS-137**, requiring no evidence of fungus growth: **COMPLIES**

8. Minimum requirements set forth in Federal Specification **UUP-147B** and **F. H. A. Bulletin UM20A**: **COMPLIES**

9. American Society for testing and Materials, **ASTM D2103-86**: **COMPLIES**

10. **ASTM E154-68**, Methods of Testing Materials for use as Vapor Barriers Under Concrete Slabs and as Ground Cover in Crawl Spaces: **COMPLIES**

WHITE 4 MIL FILM ONLY:

11. **ASTM C171-69**, Standard Specification for Sheet Materials for Curing Concrete: **COMPLIES**

MATERIAL SAFETY DATA SHEET

SECTION I

PRODUCT NAME : **POLYETHYELENE FILM**
SIZES: VARIOUS, RANGING IN THICKNESS BETWEEN .00035" & .020"
CHEMICAL NAME: POLYETHYLENE **FORMULA:** (C2H4) N
MANUFACTURER:

FOR INFORMATION ON HEALTH HAZARDS CALL:
FOR OTHER INFORMATION CALL: SAME AS ABOVE
INFORMATION EFFECTIVE AS OF: JUNE, 1986

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

PRINCIPAL HAZARDOUS COMPONENT (S)	%	TLV (UNITS)
NOT APPLICABLE		

SECTION III PHYSICAL DATA

BOILING POINT (DEGREES F): NOT APPLICABLE
SPECIFIC GRAVITY (H20=1): .910 - .965
VAPOR PRESSURE (mm HG.): NOT APPLICABLE
PERCENT VOLATILE BY VOLUME (%): NOT APPLICABLE
EVAPORATION RATE: NOT APPLICABLE
APPEARANCE AND ODOR: PLASTIC FILM, CLEAR OR COLORED , OF VARIOUS SIZES, WITH LITTLE OR NO ODOR.

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH PIONT (METHOD USED): NOT APPLICABLE
FLAMMABLE LIMITS: NOT APPLICABLE
EXTINGUISHING MEDIA: WATER SPRAY, DRY CHEMICAL, CO2
SPECIAL FIRE-FIGHTING PROCEDURES: SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHTING FIRES INVOLVING CHEMICALS.
UNUSUAL FIRE AND EXPLOSION HAZARD: NONE

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: NOT ESTABLISHED.
EFFECTS OF OVEREXPOSURE: NOT ESTABLISHED.
EMERGENCY AND FIRST AID PROCEDURES: IF BURNED BY CONTACT WITH HOT PLASTIC, COOL MOLTEN MATERIAL ADHERING TO THE SKIN AS QUICKLY AS POSSIBLE WITH COLD WATER, AND SEE A PHYSICIAN FOR REMOVAL OF ANY ADHERING MATERIAL, AND TREATMENT OF THE BURN.

SECTION VI REACTIVITY REPORT

STABILITY: UNSTABLE___ STABLE X
CONDITIONS TO AVOID: NOT APPLICABLE
INCOMPATIBILITY (MATERIALS TO AVOID): OXIDIZING MATERIALS CAN CAUSE A REACTION.
HAZARDOUS DECOMPOSITION PRODUCTS: AS WITH ANY OTHER ORGANIC MATERIAL, COMBUSTION WILL PRODUCE CARBON DIOXIDE AND PROBABLY CARBON MONOXIDE.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: COLLECT AND CONTAIN FOR SALVAGE / DISPOSAL.
WASTE DISPOSAL METHOD: INCINERATION OR LANDFILL. OBSERVE ALL FEDERAL, STATE AND LOCAL LAWS CONCERNING HEALTH AND POLLUTION.

SECTION VIII SPECIAL PROTECTION EQUIPMENT

RESPIRATORY PROTECTION; NONE SHOULD BE REQUIRED.
VENTILATION - LOCAL EXHAUST: IF NEEDED TO CONTROL DUST OR FUMES.
- MECHANICAL (GENERAL): RECOMMENDED.
- SPECIAL: NONE KNOWN
- OTHER: NONE KNOWN

PROTECTIVE GLOVES: SHOULD BE WORN TO PROTECT AGAINST THERMAL BURNS.
EYE PROTECTION: SAFETY GLASSES SHOULD BE WORN IN ANY TYPE OF INDUSTRIAL OPERATION.
OTHER PROTECTIVE EQUIPMENT: SAFETY SHOWER.

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT STORE NEAR HEAT, FLAME, OR STRONG OXIDANTS.

HEALTH HAZARD DATA CONTAINED HEREIN WAS OBTAINED FROM SUPPLIERS OF RAW MATERIALS. INFORMATION CONTAINED HEREIN IS FURNISHED WITHOUT WARRANTY OF ANY KIND. EMPLOYERS SHOULD USE THIS INFORMATION ONLY AS A SUPPLEMENT TO OTHER INFORMATION GATHERED BY THEM, AND MUST MAKE INDEPENDENT DETERMINATIONS OF SUITABILITY AND COMPLETENESS OF INFORMATION FROM ALL SOURCES TO ASSURE PROPER USE OF THESE MATERIALS AND THE SAFETY AND HEALTH OF EMPLOYEES.