



## MATERIAL SAFETY DATA SHEET

Revision Date: 1/7/07

### Section I IDENTIFICATION OF THE PRODUCT AND COMPANY

**Company Name:** Plastic Suppliers Inc., 2887 Johnstown Road, Columbus, OH 43219

**Emergency Contact:** (614) 475-8010

**Trade Name:** EarthFirst® PLA Film

**Chemical Name:** Polylactide Resin

**Hazard Summary:**

**Physical Hazards:** Non-Flammable

**Health Hazards:** Not Hazardous

**NFPA Hazard Codes:**

**Health 1**

**Fire 1**

**Reactivity 0**

### Section II HAZARDOUS INGREDIENTS

Substance Name and CAS Number	%	OSHA Exposure Limit	TLV
Polylactide Resin 9051-89-2	98-100	None	None
Magnesium Silicate 14807-96-6	0-2	20 mppcf TWA-PEL	2 mg/m <sup>3</sup>
Proprietary Ingredients	<1	None	None
Non Hazardous Ingredients			

### Section III PHYSICAL DATA Information on Ingredient

Boiling Point (°F)	NA	Specific Gravity	1.25
Melting Point (°F)	275 to 320° F	Solubility in Water	Neg.
Vapor Pressure (Mm Hg)	NA	Volatile Material	NA
Vapor Density (Air = 1)	NA	Decomposition Temperature	482° F
Appearance and Odor	Clear or Translucent with a Sweet Odor		



**Section IV FIRE AND EXPLOSION DATA**

Flash Point	NA	Flammable Limits: LEL = NA UEL = NA	
Extinguishing Media	CO2, Foam, Alcohol Foam, Dry Chemical, Water Fog		
Special Fire Fighting Procedures: Burning procedures obnoxious and toxic fumes. As in any fire wear self-contained breathing apparatus pressure-demand, MSHA / NIOSH (approved or equivalent) and full protective gear.			
Auto-ignition	388° C	Products of Combustion	Carbon Monoxide, Carbon Dioxide and Aldehydes

**Section V HEALTH HAZARD DATA**

**Threshold Limit Value:** not established.

**Effects of Overexposure:** not likely to be a problem due to physical form.

**Note to Physician:** low in toxicity.

**Emergency and First Aid Procedures:** no effect expected.

**Eyes:** mechanical injury only. Irrigation of the eye immediately with water for five minutes are suggested safety procedure.

**Section VI REACTIVITY DATA**

**Product or Spilled:** NA

**Conditions to Avoid:** temperatures above 446° F

**Section VII SPILL OR LEAK PROCEDURES**

**Steps to be taken in case material is Released or Spilled:**

Solid Form: recycle whenever possible or sweep up and discard.

**Waste Disposal Method:**

Sanitary landfill, industrial compost facility or burn in incinerator according to current local, state and federal regulations.



## Section VIII SPECIAL PROTECTION FORMATION

### **Ventilation:**

**Local Exhaust:** no special requirements with normal use.

### **Protective Equipment:**

**Eye Protection:** Safety Glasses.

**Skin and Body Protection:** Impervious clothing.

**Respiratory Protection:** respiratory protection is needed if any of the exposure limits in Section 2 are exceeded.

**Hand Protection:** impervious gloves. Contact glove manufacturer for specific glove information.

**Hygiene Measures:** avoid contact with skin, eyes, and clothing. Wash hands and face before breaks and immediately after handling the product.

## Section IX REGULATORY (Not meant to be all inclusive – selected regulations represented)

**California Proposition 65:** this product does not contain any substance known to the State of California to cause cancer or birth defects.

**FDA Status:** this is to certify that all raw materials used in production of your film from the above referenced product comply with the regulations pursuant to section 201 (s) of the Federal Food, Drug, and Cosmetic Act, and Parts 182, 184, and 186 of the Food Additive Regulation.

Under good manufacturing practices this product may be safely used as components of articles that directly contact food, in strictest accordance and subject to the limitations as set forth under conditions of use B through G, as described in Table 2 of 21 CFR 176.170 (c). However, due to the relatively low softening point we recommend the use of above products only under conditions of E through G. All of these applications are without limitation to those described in Table 1 of 21 CFR 176.170 (c).



**CONEG:** no lead, mercury, cadmium or hexavalent chromium is intentionally added to the manufacturing process. Data provided by the manufacturers of the raw materials used in this product indicate that the total level of trace quantities of lead, mercury, cadmium, and hexavalent chromium is below the 1994 CONEG model legislation limit of 100 ppm.

**Natural Rubber Content:** Plastic Suppliers, Inc. hereby certifies that during the manufacture of EarthFirst PLA from our facility, it does not formulate or intentionally add Natural rubber, Dry Natural rubber, or Natural Latex.

**Child Toy Protection Act:** EarthFirst PLA complies with the “heavy metal” requirements of Hasbro Inc. specifications SRS-044. In addition, conformance to this specification will ensure to ASTM F963 (TMA) specifications, and E.N.-71 (European Standard) as well as various other international specifications.

**NOTE:** this information is presented by Plastic Suppliers, Inc. in good faith and believed to be accurate as of the effective date shown above. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer’s responsibility to ensure that its activities comply with federal, state or provincial, and local laws. We accept no responsibility for the results obtained by the use of this data sheet. We encourage all users to conduct their own testing to determine the safety of our product or any product. Data supplied is for use only in connection with occupational safety and health.