

# MATERIAL SAFETY DATA SHEET

## Product and Manufacturer Identification

**Product Name:** DeepRoot Water Barrier products

**Product Description:** Rolled sheeting material of polyethylene compounds

**Base Resin:** Ethylene and Propylene Polymers and Copolymers

**Color:** Black

**Issue Date:** June 3, 2004

## Contact for Information / Manufacturer Identification:

Deep Root Partners, L.P.  
530 Washington Street  
San Francisco, CA 94111 USA  
Phone: 415-781-9700  
Fax: 415-781-0191

## Hazardous Components

Component	CAS #	% By Weight	OSHA PEL	ACGIH TLV
Polyethylene	9002-88-4	100	Not Established	Not Established

## Personal Protection Information

Ventilation: Use adequate Ventilation to control below recommended exposure levels.

Respiratory Protection: For concentrations exceeding the recommended exposure level, use NIOSH/MSHA approved air purifying respirator. In case of spill or leak resulting in unknown concentration, use NIOSH/MSHA approved supplied air respirator.

Eye Protection: Use safety glasses with side shields

Skin Protection: Use protective garments to prevent excessive skin contact

Note: Personal protection information shown above is based upon general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.

## Handling and Storage Precautions

Wear protective equipment and/or garments described above if exposure conditions warrant. Store away from heat or flames.

## Reactivity Data

Stability/Instability Stable

Incompatibly (Materials to Avoid) Oxidants

Hazardous Polymerization: Will Not Occur

Hazardous Decomposition Products: Carbon Oxides and hydrocarbon gases

## Health Hazard Data

### Recommended Exposure Limits:

Treat dust as a Nuisance Particulate:	Respirable Fraction	Total Dust
OSHA	5 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>
ACGIH	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

Fume: Carbon Monoxide 50 ppm (OSHA & ACGIH)  
Acrolein 0.1 ppm (OSHA & ACGIH)

### Acute Effects of Overexposure

Eye: Dust may cause mechanical irritation. Fumes can be very irritating resulting in a burning sensation and photosensitivity.

Skin: Essentially non-irritating

Inhalation: Dust may product mechanical irritation to the mucous membranes of the nose, throat and upper respiratory tract. Fumes ban be quite irritating to the eyes and mucous membrane of the upper respiratory tract. Delayed pulmonary-edema and carboxyhemoglobinemia can result from exposure to thermal decomposition products.

### **Subchronic and Chronic Effects of Overexposure**

Subchronic animal feeding studies have demonstrated no adverse effects with diets containing 5% or less polymer. Polypropylene and Polyethylene have been reported to produce malignant tumors at the implantation site when solid forms (films, fragments and sheets) are implanted in laboratory animals.

### **Other Health Effects:**

No known applicable information

### **First Aid and Emergency Procedures**

Eye: Flush eyes with water

Skin: Rinse with water

Inhalation: Remove from exposure. If exposed to flames: If breathing becomes labored or irritation develops, seek medical attention

Ingestion: If illness or adverse symptoms develop, seek medical attention

### **Physical Data**

Appearance: Rolled sheeting material of varying widths and thickness; black color

Odor: None

### **Fire and Explosion Data**

Flash Point (Method Used): 430°F, (221°C) (COC, ASTM D92)

Fire Extinguishing Media: Dry chemical, foam or carbon dioxide (CO<sub>2</sub>)

Special Fire Fighting Procedures: Use NIOSH/MSHA approved self-contained breathing apparatus and other protective equipment and/or garments as described

on page 2 if exposure conditions warrant. Use water spray or fog to cool exposed equipment and containers.

Fire and Explosion Hazards: Smoke and noxious gases (carbon oxides and hydrocarbons) released when burned.

### **Spill, Leak and Disposal Procedures**

Precautions Required if Material is Released or Spilled: The product is shipped in complete rolls and poses no release problems

Waste Disposal: Incinerate or place in waste management facility

### **Hazard Classification**

This product meets the following hazard definition(s) as defined by occupational safety and health regulations (29 CFR part 1910.1200)

Not Hazardous.