VaporStake™

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name:	**Polyvinyl Chloride**
Chemical Name:	Mixture
Synonyms:	Not applicable
Chemical Family:	Mixture of Polyvinyl Chloride Homopolymer
Formula:	Mixture, see below.
Company Address:	VaporStake, LLC 4195 Chino Hills Parkway, #165 Chino Hills, CA 91709
Phone:	(714) 519-4211
Prepared By:	Jeff Parker
Revised:	March 2007

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	% By Weight	OSHA PEL-TWA mg/m^3	ACGIH TLV-TWA mg/m^3
Polyvinyl chloride resin (chloroethene homopolymer), treated as nuisance particulate	9002-86-2	95	5 (respirable fraction) 15 (total dust)	3 (respirable particulate) 10 (total particulate)
Calcium carbonate	1317-65-3	3-4	5 (respirable fraction) 15 (total dust)	10 (total particulate)
Waxes	NE	1-2	NE	2 (as Paraffin Wax Fume)
Titanium dioxide	13463-67-7	<1	15 (total dust)	10 (total particulate)

NE = Not Established

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3. HAZARDS IDENTIFICATION

This product is non-hazardous under Hazard Communication Standard 29 CFR 1910.1200.

HAZARD RATINGS	Degree of hazard (0 = low, 4 = extreme)			
National Fire Protection Association	Health: 1	Flammability: 1	Reactivity: 0	Specific Hazard: None
Hazardous Materials Identification System	Health: 1	Flammability: 1	Reactivity: 0	

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4. FIRST AID MEASURES

EYE CONTACT:	Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Consult a physician immediately.
SKIN CONTACT:	Cool skin rapidly if contacted with molten polymer. Obtain medical attention for thermal burns or skin irritation.
INHALATION:	The product is not expected to present an inhalation hazard , unless mechanically chipped or pulverized or if melted during fire. If dust or fumes are inhaled, remove to fresh air. Do not breath fumes while cutting.
SWALLOWING:	No adverse health effects expected from ingestion.

5. FIRE FIGHTING MEASURES

Flash Point:	Not applicable
Lower Explosive Limit:	Not applicable
Upper Explosive Limit:	Not applicable
Autoignition Temp:	849°F (470°C)
EXTINGUISHING MEDIA:	Use water spray, dry chemical, or foam.
SPECIAL FIRE FIGHTING PROCEDURES:	Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing if involved in fire.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	PVC homopolymers are self-extinguishing plastic materials. They will burn in the presence of other materials that support combustion and will generate hydrogen chloride, phosgene, benzene, carbon monoxide, carbon dioxide, aromatic and aliphatic hydrocarbons, and other gases.

6. STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Collect scrap for reprocessing, or for landfill in compliance with local regulations.

7. HANDLING/STORAGE

Use any methods that keep dust to a minimum. General storage procedures are acceptable.

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8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

EYE PROTECTION:	Safety glasses are required.
SKIN PROTECTION:	None required.
VENTILATION:	Local exhaust ventilation.
RESPIRATORY PROTECTION:	If dust or fumes exist, use a NIOSH/MSHA approved respirator. At unknown concentrations and for fire fighting, use self-contained breathing apparatus (SCBA). Always use respirators in accordance with instructions.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Solid
Boiling Point:	Not available
Heat Deflection Temperature:	168°F (76°C)
Vapor Density:	Not applicable
Vapor Pressure (mm Hg):	Not applicable
Evaporation Rate:	Not applicable
% Volatile by Volume:	Not applicable
Density:	Not determined
Specific Gravity:	1.42
Solubility in Water (20 °C):	Insoluble
Melting Point:	Not available
Viscosity:	Not applicable
Odor:	Plastic, resin odor
Appearance:	Light Gray Solid plastic rod
pH:	Not applicable

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10. STABILITY/REACTIVITY

Stability:	Stable under normal storage conditions.
CONDITIONS TO AVOID:	None known.
INCOMPATIBLE MATERIALS:	None known.
HAZARDOUS DECOMPOSITION PRODUCTS:	Hydrogen chloride, benzene, carbon monoxide, carbon dioxide, aromatic and aliphatic hydrocarbons, and other gases could be released in fire.
POLYMERIZATION:	Hazardous polymerization not expected.

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11. TOXICOLOGICAL INFORMATION

No toxicological data were found for this product. The effects reported are those anticipated based on the components of this product.

POTENTIAL ROUTES OF EXPOSURE:

Inhalation of dust and fumes are the most likely route of exposure to this product.

SIGNS, SYMPTOMS, AND TOXIC EFFECTS OF OVEREXPOSURE:

Exposure to high concentrations of dust and fumes of this product will cause irritation of the respiratory tract with cough, difficulty breathing, dryness of the throat, or eye irritation.

ANIMAL TOXICITY DATA:

Component	Inhalation LC_{50}	Dermal LD_{50} (mg/kg)	Oral LD_{50} (mg/kg)
PVC homopolymer	No data found.	No data found.	No data found.
Calcium carbonate	No data found.	No data found.	No data found.
Titanium dioxide	No data found.	No data found.	No data found.

REPRODUCTIVE EFFECTS:

No data were found regarding reproductive effects in humans or animals for any component of this product.

MUTAGENICITY DATA:

No mutagenicity data were found for any component of this product.

DESIGNATION AS POTENTIAL CARCINOGEN:

IARC designates PVC homopolymer and titanium dioxide as Group 3, "not classifiable as to its carcinogenicity in humans."

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

No data were found regarding this issue.

INTERACTIONS WITH CHEMICALS THAT ENHANCE TOXICITY:

No data were found regarding this issue.

12. ECOLOGICAL INFORMATION

No data were found regarding adverse ecological impacts of this product.

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13. DISPOSAL CONSIDERATIONS

Disposal should conform to federal, state, and local regulations. If hazardous according to 40 CFR part 261.31 or 32, or possesses characteristics of 40 CFR 261 Subpart C, dispose in a facility meeting the requirements of 40 CFR 264 or 265. If non-hazardous, dispose in a facility meeting the requirements of 40 CFR 257. Before attempting cleanup, refer to hazard information and personal protection information in other sections of this MSDS. If waste is determined to be hazardous, use licensed hazardous waste transporter and disposal facility.

RCRA Status of Unused Material: If discarded in unaltered form, should be tested in accordance to 40CFR 261 Subpart C and disposed as specified above.

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14. TRANSPORTATION INFORMATION

U.S.D.O.T. SHIPPING NAME, ID NO, HAZARD CLASS: Not Regulated (also, Canada via rail and truck.)

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15. REGULATORY INFORMATION

SARA 313 LISTING:	This product does not contain any substance subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.
SARA 312 HAZARD CLASS:	Not applicable.
SARA EXTREMELY HAZARDOUS SUBSTANCES:	Not applicable.
EPA HAZARDOUS SUBSTANCES LIST: (40 CFR 302.4):	Not hazardous.
CA PROPOSITION 65:	This product does not contain any substance listed in the State of California Safe Drinking Water and Toxic Enforcement Act of 1986, as updated (February 23, 2001).
PENN. RIGHT-TO-KNOW:	All required components are identified.
N.J. RIGHT-TO-KNOW:	All required components are identified.
MASS. RIGHT-TO-KNOW:	All required components are identified.
TSCA INVENTORY STATUS:	All components of this product are listed on the TSCA Inventory.
CANADIAN WHMIS CLASS:	Not applicable.
