



# Westlake PVC Corporation

## MATERIAL SAFETY DATA SHEET

### POLYVINYL CHLORIDE

Revision: June 2011

#### SECTION 1: PRODUCT IDENTIFICATION

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**Material Name (Trade Name):** PVC Homopolymer Resin(s)  
All 1000 Series Resins, Including 1185, 1195, 1225, 1230.

**Manufacturer:** Westlake PVC Corporation  
PO Box 1027  
230 Johnson Riley Road  
Calvert City, Kentucky 42029

**Chemical Name:** Polyvinyl Chloride, PVC

**Chemical Family:** Vinyl Chloride Homopolymer

**Chemical Formula:**  $(C_2H_3Cl)_n$

**Emergency Telephone Number:** (270) 395-4860

**Sales & Product Info Phone:** 1-888-277-3212

#### SECTION 2: INGREDIENTS

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Component	CAS No.	Amount In Product
Polyvinyl Chloride Resin	9002-86-2	99.5 % – 99.9%

#### SECTION 3: PHYSICAL DATA

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**Boiling Point** : Not Applicable  
**Melting Point** : Degrades @ 248° F – 302° F (120° C - 150° C)  
**Solubility In Water** : Insoluble  
**Vapor Pressure (Mm Hg)** : Not Applicable  
**Vapor Density** : No Data  
**% Volatile By Volume** : 0.5% Maximum  
**Ph** : Not Applicable  
**Specific Gravity (H<sub>2</sub>O=1)** : 1.35 - 1.40  
**Appearance/Odor** : White, solid, free flowing powder/odor of plastic

## **SECTION 4: FIRE AND EXPLOSION DATA**

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**Flash Point:** Not Applicable

**Flammable Limits (% By Volume)**

Lower Explosion Limit (LEL): Not Applicable

Upper Explosion Limit (UEL): Not Applicable

**Firefighting Procedures / Fire Extinguishing Data:** Carbon Dioxide (CO<sub>2</sub>) or Water

**Fire and Explosion Hazard:**

PVC homopolymer resins are self-extinguishing plastic materials and will not continue to burn without an external ignition source. They will burn in the presence of other materials which support combustion and will generate hydrogen chloride, benzene, water, carbon monoxide, carbon dioxide, and smoke.

**Fire Fighting Equipment:**

Wear full bunker gear and positive pressure self-contained breathing apparatus in any closed space.

## **SECTION 5: HEALTH HAZARD DATA**

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**Primary Routes of Exposure:** Eye Contact, Inhalation, Skin Contact

**Potential Health Effects:**

**Ingestion:** No effect expected. Treat as an inert material.

**Inhalation:** May cause irritation and / or discomfort to throat and lungs.

**Eye Contact:** Solid or dust may cause irritation or scratch the surface of the eye.

**Skin Contact:** May cause skin irritation.

## **SECTION 6: FIRST AID MEASURES**

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**Ingestion:** If material is ingested, seek medical attention. Treat as an inert granular material.

**Inhalation:** If dust is inhaled, remove patient from area to fresh air. Consult a physician if there are symptoms. Treat as an inert nuisance dust.

**Eye Contact:** Immediately flush eyes with water for at least 15 minutes. Do not rub the eyes. If irritation develops, seek medical attention.

**Skin Contact:** Wash affected area with soap and water. If irritation develops, seek medical attention.

## SECTION 7: REACTIVITY DATA

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**Stability:** Stable under normal conditions.

**Incompatible Materials:** None known.

**Hazardous Decomposition:** Hydrogen chloride gas, a respiratory irritant, is emitted at elevated temperatures (248° F – 302° F or 120° C – 150° C).

**Polymerization:** Hazardous polymerization will not occur.

## SECTION 8: SPILL, LEAK AND DISPOSAL PROCEDURES

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Spilled material should be swept or vacuumed into appropriate containers and disposed of in accordance with applicable federal, state, and local regulations.

## SECTION 9: SPECIAL PROTECTION INFORMATION

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**Ventilation:** General and / or local exhaust ventilation may be required to maintain airborne concentrations below exposure guidelines.

**Eye Protection:** Use safety goggles during handling of material.

**Skin Protection:** Minimize contact with material. Wear appropriate gloves and clothing.

**Respiratory Protection:** Use NIOSH approved respirators as needed that meets the requirements of 29 CFR 1910.134.

**Exposure Guidelines:**

OSHA – PEL (8 Hour TWA)	ACGIH – TLV (8 Hour TWA)
15 mg/m <sup>3</sup> (Total Dust)	10 mg/m <sup>3</sup> (Nuisance Dust)
5 mg/m <sup>3</sup> (Respirable)	1 mg/m <sup>3</sup> (Respirable)

## SECTION 10: HANDLING AND STORAGE

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### Handling:

Use with adequate ventilation. Avoid contact with eyes and skin. Good housekeeping measures should be used and accumulations of materials should be removed from settling areas.

Polyvinyl Chloride can acquire a substantial static electrical charge. Handling and processing equipment should have electrical grounding.

### Storage:

Store at ambient temperature in a ventilated area.

### Container Use:

When opening truck or railcar for unloading, ventilate before entering.

## **SECTION 11: LABELING**

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### **N.F.P.A.:**

Health : 1  
Flammability : 1  
Reactivity : 0  
Special Hazard Warning: None

### **H.M.I.S.:**

Health : 1  
Flammability : 1  
Reactivity : 0  
Personal Protection: E

Containers of PVC Resin should be labeled according to OSHA regulation 29 CFR 1910.1017. Each container of product shall display, in a prominent place, the wording:

PVC Homopolymer Resin  
Contains Vinyl Chloride  
Vinyl Chloride Is A Cancer Suspect Agent

## **SECTION 12: REGULATORY INFORMATION**

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### **OSHA 29 CFR 1910.1017:**

PVC Resin may contain trace levels of vinyl chloride monomer. Under normal working conditions with adequate ventilation, neither the OSHA's 8-hour time weighted average, PEL of 1.0 PPM, action level of 0.5 PPM, or C/STEL of 5.0 PPM should be exceeded. Refer to 29 CFR 1910.1017 if workplace monitoring determines the level exceeds the PEL, action level, or C/STEL.

### **TSCA (40 CFR 710):**

Polyvinyl Chloride is listed in the TSCA Inventory.

### **EPA SARA Title III:**

None.

### **CERCLA:**

None

### **California Proposition 65:**

PVC resin may contain trace quantities of VCM. VCM is a chemical known to the state of California to cause cancer.

## **SECTION 13: OTHER INFORMATION**

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