

Ayers International Corp.  
P.O. Box 4312  
Greenwich, CT 06831

# MATERIAL SAFETY DATA SHEET

Product Name: VINYL ACETATE POLYMER LPS-40AC

Effective Date: 07/08/2010

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Ayers International Corp. urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate to use and understand the data contained in this MSDS.

To promote safe handling, each customer or recipient should: 1) Notify its employees, agents, contractors and others whom it knows or believes will use this material of the information in this MSDS and any other information regarding hazards or safety; 2) Furnish this same information to each of its customers for the product; and 3) Request its customers to notify their employees, customers, and other users of the product of this information.

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### 1.1 IDENTIFICATION

Product Name	VINYL ACETATE POLYMER LPS-40AC
Chemical Name	Carboxyl-modified polyvinyl acetate
Chemical Family	Vinyl Resin
Formula	Polymer
Synonym	None

### 1.2 COMPANY IDENTIFICATION

Ayers International Corp.  
P.O. Box 4312  
Greenwich, CT 06831

### 1.3 EMERGENCY TELEPHONE NUMBER

24 hours a day: CHEMTREC 1-800-424-9300.

Number for non-emergency questions concerning MSDS (203) 329-8919

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## 2. COMPOSITION INFORMATION

Component	CAS #	Amount (%W/W)
Trade secret carboxyl-modified polyvinyl acetate		< 100%
Vinyl acetate	108-05-4	
Trade secret ketone	Trade secret	< 2%
		< 2%

## 3. HAZARDS IDENTIFICATION

### 3.1 EMERGENCY OVERVIEW

Appearance      Opaque white

Physical State      Solid spheres

Odor      Odorless

Hazards of product      **WARNING!**      MAY CAUSE ALLERGIC SKIN REACTION. PLASTIC BAG OR LINER, IF PRESENT, MAY CAUSE STATIC IGNITION HAZARD.

CONTAINS VINYL ACETATE - CAUSES CANCER IN LABORATORY ANIMALS WHEN INHALED OR SWALLOWED AT HIGH CONCENTRATIONS.

### 3.2 POTENTIAL HEALTH EFFECTS

#### Effects of Single Acute Overexposure

**Inhalation** May cause irritation of the respiratory tract, experienced as nasal discomfort and discharge, coughing, and possibly accompanied by chest pain.

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**Eye Contact** Dust may cause discomfort in the eye with slight excess redness and possibly swelling of the conjunctiva. Vapor may cause mild discomfort.

**Skin Contact** No evidence of harmful effects from available information.

**Skin Absorption** No evidence of harmful effects from available information.

**Swallowing** Low toxicity. May cause nausea.

## Chronic, Prolonged or Repeated Overexposure

**Effects of Repeated Overexposure** This product contains residual vinyl acetate monomer. Repeated exposure to high concentrations of vinyl acetate vapor (approximately 200 ppm and greater) produced evidence of respiratory tract irritation in laboratory animals.

**Other Effects of Overexposure** Skin contact may cause sensitization and an allergic skin reaction in a small proportion of individuals.

## Medical Conditions Aggravated by Exposure

A knowledge of the available toxicology information and of the physical and chemical properties of the material suggests that overexposure is unlikely to aggravate existing medical conditions. A knowledge of the available toxicology information and of the physical and chemical properties of the material suggests that exposure is unlikely to aggravate existing medical conditions.

## **3.3 POTENTIAL ENVIRONMENTAL EFFECTS**

See Section 12 for Ecological Information.

## **4. FIRST AID PROCEDURES**

### **4.1 INHALATION**

Remove to fresh air. Obtain medical attention if symptoms persist.

### **4.2 EYE CONTACT**

Immediately flush eyes with water and continue washing for several minutes. Remove contact lenses, if worn. Obtain medical attention if discomfort persists.

### **4.3 SKIN CONTACT**

Wash skin with soap and water.

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## **4.4 SWALLOWING**

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No emergency care anticipated.

## **4.5 NOTES TO PHYSICIAN**

Toxicology studies have shown similar material to be of very low acute toxicity and nonirritant. There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

## **5. FIRE FIGHTING MEASURES**

### **5.1 FLAMMABLE PROPERTIES**

**Flash Point - Closed Cup:** *Not currently available.*

**Flash Point - Open Cup:** *Not currently available.*

**Autoignition Temperature:** *Not currently available.*

#### **Flammable Limits In Air:**

Lower *Not determined.*

Upper *Not determined.*

### **5.2 EXTINGUISHING MEDIA**

Extinguish fires with water spray or apply alcohol-type or all-purpose-type foam by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical media for small fires.

### **5.3 EXTINGUISHING MEDIA TO AVOID**

No information currently available.

### **5.4 SPECIAL FIRE FIGHTING PROCEDURES**

Do not direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.

### **5.5 SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS**

Use self-contained breathing apparatus when fighting fires in enclosed areas.

### **5.6 UNUSUAL FIRE AND EXPLOSION HAZARDS**

None known.

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## 5.7 HAZARDOUS COMBUSTION PRODUCTS

Burning can produce the following products: Carbon monoxide and/or carbon dioxide. Carbon monoxide is highly toxic if inhaled. Carbon dioxide in sufficient concentrations can act as an asphyxiant.

## 6. ACCIDENTAL RELEASE MEASURES

### **Steps to be Taken if Material is Released or Spilled:**

Collect for disposal. Observe government regulations.

**Personal Precautions:** Wear suitable protective equipment. See Section 8.2 - Personal Protection.

## 7. HANDLING AND STORAGE

### 7.1 HANDLING

#### **General Handling**

Avoid contact with skin and clothing.

Do not handle or empty bag or liner in presence of flammable vapor.

Keep container closed.

Use with adequate ventilation.

Wash thoroughly after handling.

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#### **Ventilation**

General (mechanical) room ventilation is expected to be satisfactory.

### 7.2 STORAGE

Store in a cool dry place. Keep out of sunlight.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### 8.1 EXPOSURE LIMITS

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Component	Exposure Limits	Skin Form
Vinyl acetate	10 ppm TWA8 ACGIH 35 mg/m <sup>3</sup> TWA8 ACGIH 15 ppm STEL ACGIH 53 mg/m <sup>3</sup> STEL ACGIH	
Vinyl acetate	10 ppm TWA8 OSHA-Vacated 30 mg/m <sup>3</sup> TWA8 OSHA-Vacated 20 ppm STEL OSHA-Vacated 60 mg/m <sup>3</sup> STEL OSHA-Vacated	
Vinyl acetate	5 ppm TWA8 UCC	
Vinyl acetate	15 ppm STEL UCC	
Trade secret ketone	750 ppm TWA8 OSHA 1000 ppm STEL OSHA 500 ppm TWA8 ACGIH 750 ppm STEL ACGIH	
Trade secret ketone	1188 mg/m <sup>3</sup> TWA8 ACGIH 500 ppm TWA8 ACGIH 1782 mg/m <sup>3</sup> STEL ACGIH 750 ppm STEL ACGIH	
Trade secret ketone	1800 mg/m <sup>3</sup> TWA8 OSHA-Vacated 750 ppm TWA8 OSHA-Vacated 1000 ppm STEL OSHA-Vacated 2400 mg/m <sup>3</sup> STEL OSHA-Vacated 1000 ppm TWA8 OSHA 2400 mg/m <sup>3</sup> TWA8 OSHA	

*In the Exposure Limits Chart above, if there is no specific qualifier (i.e., Aerosol) listed in the Form Column for a particular limit, the listed limit includes all airborne forms of the substance that can be inhaled.*

*A "Yes" in the Skin Column indicates a potential significant contribution to overall exposure by the cutaneous (skin) route, including mucous membranes and the eyes, either by contact with vapors or by direct skin contact with the substance. A "Blank" in the Skin Column indicates that exposure by the cutaneous (skin) route is not a potential significant contributor to overall exposure.*

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### 8.2 PERSONAL PROTECTION

Respiratory Protection: None expected to be needed.

Ventilation: General (mechanical) room ventilation is expected to be satisfactory.

Eye Protection: Safety Glasses

Protective Gloves: Plastic

Other Protective Equipment: Eye Bath, Safety Shower

### 8.3 ENGINEERING CONTROLS

Use good housekeeping and acceptable industrial engineering practices.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid spheres

Appearance: Opaque white

pH: *Not currently available.*

Solubility in Water (by weight): *Not determined.*

Odor: Odorless

Boiling Point (760 mmHg): *Not determined.*

Freezing Point: *Not determined.*

Specific Gravity (H<sub>2</sub>O = 1): *Not applicable.*

Vapor Pressure at 20°C: *Not applicable.*

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Vapor Density (air = 1): *Not applicable.*

Melting Point: *Softens at* 90 -100°C 194 - 212 of

Bulk Density: 0.770 g/cm<sup>3</sup> 48.1 lb/ft<sup>3</sup>

### 10. STABILITY AND REACTIVITY

10.1 STABILITY/INSTABILITY *Stable*

10.2 HAZARDOUS POLYMERIZATION *Will Not Occur.*

10.3 INHIBITORS/STABILIZERS *Not applicable.*

### 11. TOXICOLOGICAL INFORMATION

#### SIGNIFICANT DATA WITH POSSIBLE RELEVANCE TO HUMANS

Vinyl Acetate is identified by IARC as a potential carcinogen. Lifetime exposure to high vapor concentrations (600 ppm) of Vinyl Acetate caused malignant and benign tumors of the respiratory tract of rats, but not mice; this response possibly being associated with the irritant effect. Vinyl acetate has been tested for carcinogenic potential in rats in two separate drinking water studies. In one study in which animals were exposed to concentrations up to 0.5% in water, there was no evidence of carcinogenicity. In the second study, conducted at higher concentrations (up to 1 % in water), evidence of cancer in the stomach and oral cavities was observed. There is no evidence that vinyl acetate has caused cancer in humans. There should be minimal risk when used with ventilation adequate to keep the atmospheric concentration of Vinyl Acetate below the recommended exposure limit. Male rats receiving Vinyl Acetate at high concentrations in drinking water (0.5%) for two generations possibly demonstrated a decreased ability to produce offspring.

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## **12. ECOLOGICAL INFORMATION**

### **12.1 ENVIRONMENTAL FATE**

No information available.

### **12.2 ECOTOXICITY**

No information available.

### **12.3 FURTHER INFORMATION**

None.

## **13. DISPOSAL CONSIDERATIONS**

### **13.1 WASTE DISPOSAL METHOD**

Incinerate in a furnace or otherwise dispose of in accordance with appropriate Federal, State, and local regulations. Dispose in accordance with all applicable Federal, State, and local environmental regulations. Empty containers should be recycled or disposed of through an approved waste management facility.

### **13.2 DISPOSAL CONSIDERATIONS**

See Section 13.1

*Disposal methods identified are for the product as sold. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options permissible under applicable rules, regulations and/or laws governing your location.*

## **14. TRANSPORT INFORMATION**

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## 14.1 U.S. D.O.T.

### NON-BULK

Proper Shipping Name: NOT REGULATED

### BULK

Proper Shipping Name: NOT REGULATED

*This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.*

## 15. REGULATORY INFORMATION

### 15.1 FEDERAL/NATIONAL

#### COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT OF 1980 SECTION 103 (CERCLA)

The following components of this product are specifically listed as hazardous substances in 40 CFR 302.4 (unlisted hazardous substances are not identified) and are present at levels which could require reporting:

Component	CAS #	Amount
Trade secret ketone	Trade secret	<= 2.0000%
Vinyl acetate	108-05-4	<= 2.0000%
Trade secret carboxylic acid	Trade Secret	<= 0.0300%

#### SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 TITLE III (EPCRA) SECTIONS 302 AND 304

The following components of this product are listed as extremely hazardous substances in 40 CFR Part 355 and are present at levels which could require reporting and emergency planning:

Component	CAS #	Amount
Vinyl acetate	108-05-4	<= 2.0000%

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## SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 TITLE III (EPCRA) SECTION 313

The following components of this product are listed as toxic chemicals in 40 CFR 372.65 and are present at levels which could require reporting and customer notification under Section 313 and 40 CFR Part 372:

Component	CAS #	Amount
Vinyl acetate	108-05-4	<= 2.0000%

## SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 TITLE III (EPCRA) SECTIONS 311 AND 312

Delayed Hazard: Yes

Fire Hazard: No

Immediate Health Hazard: Yes

Reactive Hazard: No

Sudden Release of Pressure Hazard: No

## TOXIC SUBSTANCES CONTROL ACT (TSCA)

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

## EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES (EINECS)

The components of this product are on the EINECS inventory.

## 15.2 STATE/LOCAL

### PENNSYLVANIA (WORKER AND COMMUNITY RIGHT-TO-KNOW ACT)

This product is subject to the Worker and Community Right-to-Know Act. The following components of this product are at levels which could require identification in the MSDS:

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Component	CAS #	Amount
Trade secret ketone	Trade secret	<= 2.0000%
Vinyl acetate	108-05-4	<= 2.0000%

## MASSACHUSETTS (HAZARDOUS SUBSTANCES DISCLOSURE BY EMPLOYERS)

The following components of this product appear on the Massachusetts Substance List and are present at levels which could require identification in the MSDS:

Component	CAS #	Amount
Trade secret ketone	Trade secret	<= 2.0000%
Vinyl acetate	108-05-4	<= 2.0000%

Massachusetts Trade Secret Code No. = 99-206-092

## CALIFORNIA PROPOSITION 65 (SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986)

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

## CALIFORNIA SCAQMD RULE 443.1 (SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 443.1, LABELING OF MATERIALS CONTAINING ORGANIC SOLVENTS)

VOC: Volatiles = Substances with a vapor pressure of greater than 0.5 mmHg @ 104<sup>0</sup> C (219.2<sup>0</sup> F)  
35.24 g/l VOC  
35.24 g/l less water and less exempted solvents

*This section provides selected regulatory information on this product including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.*

## 16. OTHER INFORMATION

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## 16.1 SPECIFIC HAZARD RATING SYSTEM

No additional information.

## 16.2 RECOMMENDED USES AND RESTRICTIONS

FOR INDUSTRY USE ONLY

## 16.3 REVISION

Revised: 07/08/2010

Prepared by: J. Miller

## 16.4 LEGEND

A	Asphyxiant
Bacterial/NA	Non Acclimated Bacteria
F	Fire
H	Health
HMIS	Hazardous Materials Information System
N/A	Not available
NFPA	National Fire Protection Association
O	Oxidizer
P	Peroxide Former
R	Reactivity
TS	Trade Secret
VOLNOL	VolumeNolume
W	Water Reactive
WW	Weight/Weight

*The opinions expressed herein are those of qualified experts within Ayers International Corp.. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet.*

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*Since the use of this information and the conditions of the use of the product are not under the control of Ayers International Corp., it is the user's obligation to determine conditions of safe use of the product.*