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## MATERIAL SAFETY DATA SHEET

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

Emergency phone: 800-424-9300 (Chemtrec) 4 letter i.d.= PLOT  
For Orders or Technical Information: 800.223.1624

Product Name/Code: ROBO GLUE

Issue Date: 07-10-2006

### Section 2: HAZARDS IDENTIFICATION

Health - 1 Fire - 0 Reactivity - 0

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

#### EMERGENCY OVERVIEW

Appearance/Odor: White liquid with sweet odor.

Potential Health Effects: See Section 11 for more information

#### Caution!

May cause eye irritation

Likely Routes of Exposure: Ingestion, Eye contact, Skin contact, Inhalation

Acute Health Hazards: See Section 11 (Toxicology Information)

Eye contact: May cause eye irritation

Medical Conditions Aggravated By Exposure:  
Not Known

Target Organs: None known

See Section 8 (Exposure Control/Personal Protection) and Section 15- California Safe Drinking Water & Toxic Enforcement Act (Proposition 65) regarding carcinogenicity.

See Sections 8 and 15 regarding hazardous material.

Potential Environmental Effects: See Section 12 for more information)

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS #	% by Wt.
Vinyl acetate polymers		50% - 70%
Water	7732-18-5	30% - 50%
Vinyl Acetate Monomer	108-05-4	<0.4%
Biocide		<0.01%

The remaining components are trade secret. Contains no other components or impurities which will influence the classification of the product.

### Section 4: FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water, also under the eyelids.

Skin Contact: Wash off with soap and water.



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Get medical attention if irritation develops.

Inhalation: If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.

Ingestion: Call a physician immediately. Do not induce vomiting without medical advice.

#### **Section 5: FIRE FIGHTING MEASURES**

Suitable Extinguishing Media: The product will only burn after the water it contains is driven off. Use extinguishing media appropriate for surrounding fire.

Specific hazards: When dried polymer burns, water (H<sub>2</sub>O), carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO) and smoke are produced.

Special protective equipment for fire fighters: No special procedures required. The product, as distributed, is noncombustible.

#### **Section 6: ACCIDENTAL RELEASE MEASURES**

Personal Precautions: Use personal protection recommended in Section 8. Wear suitable protective clothing, gloves and eye/face protection. Ventilate the area. Self contained breathing apparatus (SCBA) may be required.

Environmental Precautions: Product imparts a milky white color to contaminated waters. Foaming may result. Sewage treatment plants may not be able to remove the white color imparted to the water. This material is a water pollutant. Do not let spilled or leaking material enter waterways.

Methods for Containment: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Methods for Clean-Up: Flush with plenty of water. Wash contaminated property (e.g. automobiles) quickly before the material dries.

Other Information: Spilled polymer emulsion is very slippery. Use care to avoid falls. A film will form on drying. Remove saturated clothing and wash contacted skin area with soap and water.

#### **Section 7: HANDLING AND STORAGE**

##### **Handling**

Use only in well-ventilated areas. Avoid contact with eyes. Avoid contact with skin. Avoid breathing vapors and/or aerosols. When using, do not eat, drink or smoke.

##### **Storage**

Keep from freezing. Store in closed containers. Prevent inoculation with microorganisms. Minimize exposure to air.

#### **Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

##### **Exposure Guidelines**

This product contains small amounts of vinyl acetate monomer. ACGIH evaluated vinyl acetate (1993) as an A3-Animal carcinogen: Available evidence suggests that the agent is not likely to cause cancer in humans except under uncommon or unlikely routes of exposure. The international Agency for Research on cancer (IARC) published a monograph on vinyl acetate (1995). In this monograph IARC indicates "there is inadequate evidence in humans for carcinogenicity of vinyl acetate. There is limited evidence in experimental animals for carcinogenicity of vinyl acetate". Normally, this lack of conclusive evidence would place a substance in the IARC Category 3 classification (Not classified as a human carcinogen). However, because vinyl acetate is metabolized to acetaldehyde, which has an IARC 2B (Possibly carcinogenic to humans) classification, it also has been listed under Category 2B.

Engineering Controls: The following exposure control techniques may be used to effectively minimize employee exposure: local exhaust ventilation, enclosed system design, process isolation and remote control in combination with appropriate use of personal protective equipment and prudent work practices. These techniques may not necessarily address all issues pertaining to your operations. We, therefore, recommend that you consult with experts of your choice to determine whether or not your programs are adequate. If airborne contaminants are generated when the material is heated or handled, sufficient ventilation in volume and air flow patterns should be provided to keep air contaminant concentration levels below acceptable criteria.



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**Personal Protection:** Respiratory protection not required under normal use. Where air contaminants can exceed acceptable criteria, use NIOSH (42 CFR Part 84) approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air in accordance with OSHA laws and regulations or other applicable standards or guidelines, including ANSI standards regarding respiratory protection. Use chemical safety glasses. Wear rubber gloves. The breakthrough time of the selected glove (s) must be greater than the intended use period.

**Special instructions for protection and hygiene:** Minor components will migrate into the container headspace. Levels in excess of the exposure limits can accumulate in non-vented container headspaces. Formaldehyde concentrations in the workplace air may exceed the exposure limit under unusual conditions of use. Provide readily accessible eye wash stations and safety showers. Under normal conditions of use in a well ventilated space, the concentration of minor components in the workplace air will not exceed the exposure limits.

### **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Color: White

Odor: Sweet

Odor Threshold: Not available.

Physical State: Liquid.

pH: 4.9

Freezing Point: Not available

Boiling Point: >212 F (>100 C)

Flash Point: Not available

Evaporation Rate: Not available.

Flammability (solid, gas): Not applicable

Upper Flammability Limit: Not available

Lower Flammability Limit: Not available

Vapor Pressure: 18.50 mmHg at 21 C

Vapor Density: 67.322 lb/ft<sup>3</sup> (1.0784 g/cm<sup>3</sup>) at 70F (21C)

Specific Gravity: Not available

Solubility (water): Dispersible

Partition Coefficient (n-octanol/water): Not available

Auto-ignition Temperature: Not available

Percent Volatile, wt. %: Not available

Volatile Organic Compound (VOC) content, wt. %: Not available

### **Section 10: STABILITY AND REACTIVITY**

**Stability:** Stable. Coagulation may occur following freezing, thawing or boiling.

**Conditions to Avoid:** Not applicable

**Incompatible Materials:** Not available

**Hazardous Decomposition Products:** Depending upon formulation conditions (such as pH>7), the level of acetaldehyde may increase as a result of hydrolysis of residual vinyl acetate monomer.

Aldehydes

Acetic Acid

**Possibility of Hazardous Reactions:** Not available

### **Section 11: TOXICOLOGY INFORMATION**

Acute Health Hazard

Ingestion: No data available

Inhalation: No data available

Inhalation – components

Vinyl Acetate Monomer LC50 (1 hr): 5656 ppm Species: Rat

Skin: No data available

Acute dermal irritation/ corrosion: No data available



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**Section 12: ECOLOGICAL INFORMATION**

Ecotoxicity effects:

Aquatic toxicity: No data is available on the product itself

Toxicity to other organisms: No data available

Persistence and degradability:

Mobility: No data available

Bioaccumulation: No data is available on the product itself

**Section 13: DISPOSAL CONSIDERATIONS**

Disposal:

Waste from residues/unused products: Ensure all national/local regulations are observed. For small quantities (less than 100 gallons): Disposal to municipal or industrial waste water treatment plants is normally acceptable. Obtain approval from these Authorities before disposal. The product does impart a white, milky color to water, which may not be removed or sufficiently diluted by the treatment facility. The product may also cause foaming when agitated. The product can be chemically or biologically degraded. For large quantities: Disposal through licensed waste disposal facilities is suggested. The product can be incinerated, although chemical or biological treatment is sufficient. Chemical precipitation/coagulation can be used to facilitate removal of solids (consult manufacturer for detailed procedure). NOTE: As supplied or diluted, product material (foam included), when splashed on automobiles or other personal property, is difficult to remove if allowed to dry.

**Section 14: TRANSPORTATION INFORMATION**

The data provided in this section is for information only and may not be specific to your package size. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

US DOT Not available

CFR: Not regulated

IATA: Not regulated

IMDG: Not regulated

CTC: Not regulated

Further information: Not dangerous goods

**Section 15: REGULATORY INFORMATION**

TSCA: All reportable chemical substances are listed on the TSCA Inventory. We rely on certifications of compliance from our suppliers for chemical substances not manufactured by us.

OSHA Hazard Communication Standard (29 CFR 1910.1200) Hazard Class (es)

No OSHA Hazards

COUNTRY	REGULATED LIST	NOTIFICATION
USA	TSCA	Included on Inventory
EU	EINECS	Included on EINECS inventory or polymer substance, monomers, included on EINECS inventory or no longer polymer.
Australia	AICS	Included on inventory
Japan	ENCS	Included on inventory
South Korea	ECL	Included on inventory
China	SEPA	Included on inventory
Philippines	PICCS	Included on inventory
Canada	DSL	Included on inventory

SARA 313 Information



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EPA SARA Title III Section 312 (40 CFR 30) Hazard Classification:

No SARA Hazards

EPA SARA Title Section 313 (40 CFE 372) Component (s) above 'de minimus' level:

Vinyl Acetate Monomer

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

WARNING! This product contains a chemical known in the State of California to cause cancer.

Acetaldehyde  
Formaldehyde

WHMIS: Canadian Workplace Hazardous Material Information System

Not available

### **Section 16: OTHER INFORMATION**

#### **DISCLAIMER**

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for his own particular use.

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