



## Material Safety Data Sheet

Valid from June 24<sup>th</sup>, 2015

**Product: Rexolite Adhesive #12517 (For bonding Rexolite 1422 to itself)**

**1. Identification of the substance/preparation and of the company/undertaking. Rexolite Adhesive**

*Manufacturer:*

C-Lec Plastics Inc.  
6800 New State Road  
Philadelphia, PA 19135 U.S.A.

**2. Hazards Identification:**

- Eye:** May cause moderate irritation with corneal injury. Vapors may irritate eyes. Vapors may cause lachrymation (tears).
- Skin Contact:** Prolonged or repeated exposure may cause skin irritation, even a burn. Repeated contact may cause drying or flaking of skin.
- Skin Absorption:** A prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts. The dermal LD50 has not been determined.
- Ingestion:** Single dose oral toxicity is low. The oral LD50 for rats is 5000 mg/kg. Amounts ingested incidental to industrial handling are not likely to cause injury, however, ingestion of larger amounts may cause injury. If aspirated (liquid enters the lung), may be rapidly absorbed through the lungs and result in injury to other body systems.
- Inhalation:** Excessive vapor concentrations are attainable and could be hazardous on single exposure. Signs and symptoms of excessive exposure may be anesthetic or narcotic effects and irritation to upper respiratory tract.

Systemic &

Other Effects: Repeated excessive exposures to high amounts may cause CNS, liver, kidney effects. Repeated excessive exposures to smaller amounts may cause CNS effects and respiratory or eye irritation. Neither the data from various long term animal studies nor from epidemiology of workers exposed to styrene provide an adequate basis to conclude that styrene is carcinogenic. Birth defects are unlikely. Even exposures having an adverse effect on the mother should have no effect on the fetus. In animal studies it has been shown not to interfere with reproduction.

### 3. Composition/Information on Ingredients

*Chemical characteristics:*

Polystyrene	CAS#100 42-5
Divinyl Benzene	CAS#1321 74-0

### 4. First Aid Measures

*Contact with Eyes:* Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.

*Inhalation:* Remove to fresh air. If not breathing, give mouth-to-mouth resuscitation. If breathing is difficult, give oxygen and call a physician.

*Skin:* In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician if irritation persists. Wash clothing before reuse. Destroy contaminated shoes.

*Ingestion:* Do not induce vomiting. Call a physician and/or transport to an emergency facility immediately.

*Note to Physician:* Because rapid absorption may occur through lungs if aspirated and cause systemic effects, the decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care. Treatment based on judgement of the physician in response to reactions of the patient.

### 5. Fire Fighting Measures:

*Suitable Extinguishing Agents:* Water fog, foam, alcohol foam, CO<sub>2</sub>, dry chemical. *In Case of Fire, the Following Hazardous Gases can be Produced:* CO<sub>2</sub> and CO. Smoke and noxious gases. (Carbon Monoxide & Hydrocarbons)

Flash Point: 88°F; 31°C

METHOD USED: TCC

FLAMMABLE LIMITS:

LFL: 1.1 Vol. %

UFL: 6.1 Vol. %

**FIRE & EXPLOSION HAZARD:** Material auto ignites at 914°F, 490°C in air  
Polymerization will take place under fire conditions, if polymerization occurs in a closed container, there is a possibility it will rupture violently.  
Cool storage containers with water, if exposed to fire

**FIRE FIGHTING EQUIPMENT:** Wear positive-pressure self-contained breathing apparatus; wear goggles if eye protection is not provided by the breathing apparatus

24 HOUR EMERGENCY ASSISTANCE.....1-800-424-9300

6. **Accidental Release Measures:** Small spill or leak – absorb with suitable agent, such as sand or vermiculite. Wash area with soap and water. Large spill – contain with dikes, pump water into area, recover styrene to be burned or purified for reuse.

7. **Handling/Exposure Controls/Personal Protection:**

Exposure Guidelines: ACGIH TLV is 50 ppm TWA; 100 ppm STEL. OSHA PEL is 100 ppm TWA; 200 ppm ceiling, peak.

Ventilation: Control airborne concentrations below the exposure guideline.

Respiratory Protection: Atmospheric levels should be maintained below the exposure guidelines. When respiratory protection is required for certain operations, use an approved air-purifying respirator.

Skin Protection: Use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron or full-body suit will depend on operation.

Eye protection: Use chemical goggles. If vapor exposure causes eye irritation, use a full-face respirator.

8. **Physical and Chemical Properties**

BOILING POINT: 293°F, 145°C  
VAP PRESS: 4.5mmHg @ 20°C  
SOL. IN WATER: 0.032 @ 25°C  
SP. GRAVITY: .9034 @ 25/25C  
APPEARANCE: Colorless Liquid  
ODOR: Sweet Odor

## 9. Stability and Reactivity

Stability: (Conditions to avoid) Polymerizes easily. Store below 90 degrees F, 32 degrees C. Maintain inhibitor and dissolved oxygen level.

Incompatibility: (Specific materials to avoid) Acid, Caustic, oxidizing material, metallic halides (salts)

Hazardous Decomposition Products: None known.

Hazardous Polymerization: Avoid heat, metallic (halide) salts – such as ferric and aluminum chlorides, unintended contact with peroxides, and depletion of inhibitor and oxygen.

10. **Toxicological Information** *Remarks:* According to experience, this product is considered to be harmless to health if handled in the correct manner.
11. **Ecological Information** *Disposal:* Incinerate in properly designed furnace. Comply with . However, C-LEC Plastics, Inc. holds no liability for disposal of this product. It is the user responsibility to comply with all local and state laws for proper disposal. Always consult the local regulatory agencies for proper disposal.
12. **Disposal Considerations** Burn in adequate incinerator in accordance with all applicable Federal, State and Local Laws.
13. **Transport Information** This product is considered a hazardous product.
14. **Regulatory Information** None specified. Always check with local authorities.
15. **Other information including information on preparation and revision of the SDS....** This information is believed by the technical staff at C-LEC Plastics, Inc. to be true and accurate for the normal and intended use of this product as of the date that this MSDS sheet was produced. Since C-LEC Plastics, Inc. has no control over the actual use of this product, it is sole responsibility of the user to determine the proper protection with regards to safety and disposal of this product. C-LEC Plastics, Inc. further recommends consulting local regulatory agencies to determine applicable laws and regulations.