



# Product Bulletin

Better Chemistry. **Better Business.**

**Hallstrip™ RS 617**

**Product Code: 2702005**  
**Revised Date: 1/8/2016**

## Hallstrip™ RS 617

**Hallstrip™ RS 617** is a concentrated alkaline liquid system designed to give the user maximum processing flexibility and bath life for photopolymer resist stripping. **Hallstrip™ RS 617** is designed to be used on fully aqueous dry films. **Hallstrip™ RS 617** produces excellent mil/sq.ft. yields and fast conveyor speeds.

### FEATURES AND BENEFITS

- **Hallstrip™ RS 617** is free of phenols, chromates, phosphates and silicates.
- the dry film breaks into small flakes rather than sheets. Therefore, no pump or nozzle plug-ups in spray mode.
- **Hallstrip™ RS 617** is economical to use.
- copper and solder surfaces are bright after stripping.
- **Hallstrip™ RS 617** does not attack epoxy or have adverse effects on hole wall adhesion.

### OPERATING CONDITIONS

	<u>spray</u>	<u>immersion</u>
Concentration <b>Hallstrip™ RS 617:</b>	10-%/vol	15 %/vol
Temperature:	100-140° F. (38-60° C.)	120-160° F. (49-71° C.)
Defoamer:	Aquapure DF-P recommended	N/A
Equipment:	polypropylene, polyethylene, 316 stainless, pvc	polypropylene, polyethylene, 316 stainless, pvc



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Filtrator:	recommended for long bath life, easy waste treatment, and low foaming	
Heaters:	quartz, stainless	quartz, stainless

### CONTROL PROCEDURES

1. Pipet a 10 ml sample of **Hallstrip™ RS 617** working bath into a 250 ml Erlenmeyer flask.
2. Add about 100 ml of water and a few drops of bromothymol blue indicator. (if the sample is the color of the resist from usage, it may be necessary to filter the undissolved particles prior to titration).
3. Titrate with 0.5 N hydrochloric acid from blue to a yellow endpoint.
4. Record the ml of 0.5 N hydrochloric acid.

### CALCULATION

$$\text{Hallstrip™ RS 617 (\% VOL)} = 0.585 \times \text{ML OF 0.5 N Acid}$$

### CAUTION

**Hallstrip™ RS 617** is an alkaline product and should be handled accordingly. Avoid skin, eye and oral contact. Wear protective clothing, gloves and goggles. Flush exposed areas immediately with clean cold water. In case of injury contact a doctor immediately. Caution should be taken to provide adequate ventilation.

### WASTE DISPOSAL

#### Aquapure™ FA

Using Aquapure™ FA from Hubbard-Hall, Inc. Is the most efficient method of waste treating **Hallstrip™ RS 617**. This process completely removes the photopolymer resist from the stripper in a form that allows it to be pressed into an easily handled, non-sticky cake. Aquapure™ FA is a liquid product which is free from hazardous dusts.



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### **PROCEDURE**

1. Adjust the pH of the spent solution to 9.0 with sulfuric or hydrochloric acid.
2. Add 5% v/v Aquapure™ FA while mixing.
3. The solution can be clarified or sent directly to a press.
4. Additional treatment for any metals in solution can be accomplished by using Aquapure™ P 601 or Aquapure™ P 1130.

### **GENERAL METHOD**

Neutralize solutions of **Hallstrip™ RS 617** to a pH between 6 to 8 with a mineral acid. Use caution when adding the acid since neutralization generates heat. Discharge the neutralized solution to disposal area. In order to be completely informed on the latest disposal regulations for your area, please contact the local authorities.

### **WARRANTY**

THE QUALITY OF THIS PRODUCT IS GUARANTEED ON SHIPMENT FROM OUR PLANT. IF THE USE RECOMMENDATIONS ARE FOLLOWED, DESIRED RESULTS WILL BE OBTAINED. SINCE THE USE OF OUR PRODUCTS IS BEYOND OUR CONTROL, NO GUARANTEE EXPRESSED OR IMPLIED IS MADE AS TO THE EFFECTS OF SUCH USE, OR THE RESULTS TO BE OBTAINED.