DRAFT

Technical Safety Data Sheet

Equipment Name: Silver Recovery System (Brittell FTS 50 SP)

Manufacturer: LED Italia SRL

Address
Via Nuova di Corva 86/D
33170 Pordenone

Telephone Number: 0434/571055 **Fax Number:** 0434/571459

Date Prepared: March 20, 1998

Equipment Description: This equipment consists of a flow-through vacuum evaporation unit that processes spent photographic fixer to recover the silver from solution. The spent fixer is placed in a influent tank, piped into the equipment, and the effluent is theoretically able to be discharged into the local sanitary sewer. After the solution is distilled, the silver is separated as a sludge concentrate and deposited into a concentrated sludge tank. Typical silver content is 200 mg/L for the influent, .057 mg/L for the effluent, and 340 mg/L for the sludge. The unit is capable of processing 1.85 gallons per hour. Equipment dimensions are 61.02” high by 27.56” wide by 28.34” deep.

Precautions for Safe Handling and Use:

Operation

Do not turn off the unit using main power switch except in emergency situations.

Do not allow the concentrated sludge to dry while in the distillation tank. If this happens, the concentrate will not be able to drain from the tank.

Do not smoke, eat or drink in the vicinity of this equipment.

Wear appropriate personal protective equipment (PPE) when transferring liquid to and from the equipment. See control measures section for details.

Before attempting to operate this equipment, read the vacuum evaporator WTSE E 150 SP instruction manual.

Maintenance

Before attempting to perform maintenance on this equipment, read the vacuum evaporator WTS E 150 SP Instruction Manual.

Installation

Ensure the equipment is installed in a room where the temperature is between 41 and 86 degrees Fahrenheit.

Install the equipment at least 20 inches away from the nearest wall.

The concentrated sludge tank must be located within 16 feet of the main unit.

When the unit is installed, pipe the effluent water into a barrel until it can be tested to make sure it meets local effluent standards prior to discharging it into the drainage system.

Health Hazard Data

Chemical Hazard: Spent fixer may cause eye or skin irritation.

Physical Hazard: None observed

Biological Hazard: None observed

Ergonomic Hazard: None observed

Environmental Hazard: Possibly effluent from the equipment.

Control Measures

Personal Protective Equipment Requirements: Use chemical goggles, apron and nitrile gloves when transferring liquids to and from this equipment.

Ventilation Requirements: None

Posting Requirements: Signs for PPE requirements should be posted in the operating area.