



UNC CHARLOTTE

Department of Engineering Technology

LABORATORY SAFETY ANALYSIS

OPERATING THE CLEAN STATION SOLUBLE SUPPORT REMOVER


Location: Smith 125A

Required Training: The Clean Station soluble support remover (for use with the SST 1200es 3D printer) is designed and intended for use by properly trained and experienced operators. If you are not familiar with the proper and safe operation of this device, do not use until proper training and knowledge have been obtained.

Required Personal

Protective Equipment (PPE): Eye goggles or full face shield, neoprene gloves.

Reference Materials: Manufacturer's safety rules and operating instructions

PHOTOS	TASK	HAZARDS	CONTROLS
	Wear clear safety goggles or a full face shield.	Chemical irritants	<ul style="list-style-type: none"> Goggles and/or face shield are located beside the apparatus. See laboratory instructor or laboratory manager if goggles/face shield are not available before proceeding to use equipment.
	Wear chemical resistant waterproof gloves	Chemical irritants, burns	<ul style="list-style-type: none"> Chemical resistant gloves are located beside the apparatus.. See laboratory instructor or laboratory manager if chemical resistant gloves are not available before proceeding to use equipment.
	Put on PPE	Chemical irritants, burns	<ul style="list-style-type: none"> Always wear eye goggles or face shield. Always wear chemical resistant gloves when putting models into or removing models from the Clean Station. Cleaning solution may irritate unprotected skin and is hot when in operation.
	Placing models into the Clean Station	Chemical irritants, burns	<ul style="list-style-type: none"> Wear chemical resistant gloves when inserting or removing models from the cleaning solution. Wear goggles or face shield at all times when working around the cleaning solution. Remove and insert the cleaning basket slowly to avoid splashing of cleaning solution.

	Removing models from the Clean Station	Chemical irritants, burns	<ul style="list-style-type: none"> • Wear chemical resistant gloves when inserting or removing models from the cleaning solution. • Wear goggles or face shield at all times when working around the cleaning solution. • Remove and insert the cleaning basket slowly to avoid splashing of cleaning solution. • Hold basket above the cleaning solution tank and allow models to drain back into the tank before removing them from basket.
	Rinse models	Chemical irritants, burns	<ul style="list-style-type: none"> • Rinse models in sink adjacent to Clean Station while continuing to wear goggles/face shield, and chemical resistant gloves. • Parts may still be hot and contain residual cleaning solution.
	Changing cleaning solution	Chemical irritants, burns	<ul style="list-style-type: none"> • Changing the cleaning solution is to be done only by the laboratory manager.
	Clean work area and return all PPE to a clean storage area.	Chemical irritants	<ul style="list-style-type: none"> • Ensure adequate housekeeping measures to prevent accidents. • Clean any residual spills or drips of cleaning solution from worktable. • Return basket and lid to their operating "closed" position.

For more information about this LSA, contact the *Department of Engineering Technology* at UNC Charlotte (704) 687-2305
 Please visit our website at: <http://www.et.uncc.edu>

The development of Laboratory Safety Analyses is a very effective means of helping reduce incidents, accidents, and injuries in the workplace. It is an excellent tool to use for training purposes and can also be used to investigate "near misses" and accidents.