



Global Specialty Products

USA, Inc.

STENCILMATE™ AQUEOUS CLEANER

**Zero VOC, non-HAPs, Biodegradable,
non-regulated
A Safer Product for a Cleaner
Environment**

APPLICATION:

STENCILMATE™ AQUEOUS CLEANER is a worker and environmentally friendly, completely water soluble, low foaming and biodegradable cleaner, formulated specifically to achieve a multitude of cleaning objectives. It provides fast, residue free and complete removal of wet SMD adhesives, solder paste, flux residue build up and hybrid inks from screens, stencils, misprints, pallets, and tooling. **STENCILMATE™ AQUEOUS CLEANER**, cleans at room temperature or a maximum operating temperature of 111 °F eliminating the effects of thermal shock, water vapors and corrosion, unlike Terpenes, most saponifiers and other harsh chemicals which may require a strong pH and high operating temperature. **STENCILMATE™ AQUEOUS CLEANER** has a mild pH and contains corrosion inhibitors, therefore, it is safe on screens, frames and metal foils made out of aluminum, stainless steel, polyester, brass, nickel and their alloys.

PRODUCT ATTRIBUTES:

- ◆ Non-Carcinogenic, Eliminates Regulatory Issues
- ◆ No VOCs, No ODCs - No Environmental Impact
- ◆ No health or safety hazardous to consider - No special handling or storage requirements
- ◆ Effective in cleaning flux, dried and fresh paste, misprints, pallets, adhesives, etc.
- ◆ Mild pH - It will meet OSHA's pH rating requirements for being non-hazardous
- ◆ Non-flammable, Non-combustible
- ◆ Low Odor
- ◆ Low operating Temperature - No heat to debond, delaminate or distort stencils
- ◆ No IPA, Terpenes, hot/corrosive Saponifiers, Cyclic Amines Or Caustic Soda
- ◆ No Butyl Cellosolve, Chlorinated, Aromatic, Aliphatic Or Ketones Solvents
- ◆ Suitable for use in ultrasonic tanks or spray under immersion
- ◆ Easy to rinse - Helps reduce misprints
- ◆ HMIS Rating: Health = 1, Fire = 0, Reactivity = 0

STENCILMATE™ Aqueous Cleaner Typical Properties:

Appearance	Clear yellow liquid
pH(Full strength @ 77 °F)	11.7-11.9
pH(10% solution in water @ 77 °F)	11.0-11.30
Odor	Mild
Viscosity [@ 77 °F]	Water Thin
Specific Gravity [@ 77 °F, water = 1]	1.070 - 1.080
Bulk Density (Lbs./Gal.)	9.0

CLEANING PROCESS:

The care, cleaning and handling of SMD screens and stencils with fine-pitch (0.016 to 0.020 inch) or even thinner pitch (0.001 - 0.003 inch) stencils is a very critical factor as part of the printing process. The only way to avoid damaging the land bridges between apertures of stencils is to use **STENCILMATE™ AQUEOUS CLEANER** in an ultrasonic tank or spray under immersion. **Direct high pressure spray can damage a stencil.** An adequate ultrasonic cavitation coupled with **STENCILMATE™ AQUEOUS CLEANER** at 10% concentration and 77 - 111°F makes it ideal for handling fine pitch SMD screens and stencils. Use warm water to rinse and warm air to dry.

DISPOSAL:

Solutions containing hazardous or non-hazardous soils should be handled and treated according to Federal, State and Local Environmental Laws. As a recommendation, you can easily eliminate the liquid hazardous waste stream created by non-hazardous **STENCILMATE™ AQUEOUS CLEANER** and hazardous lead/tin solder paste, inks or other contaminants, by using routine evaporation equipment. The non-hazardous liquid will evaporate to the atmosphere as distilled water, and the dehydrated hazardous metals and ions are left behind as solid for incineration, due to its high BTU. As a second option, if you have an in-house filtration system to handle lead-laden liquid waste generated from a batch or in-line PCB cleaner, you can most likely handle the liquid waste generated from the **STENCILMATE™ AQUEOUS CLEANER** within the same filtration equipment.

STORAGE:

High density polyethylene drums and totes. Store drums in a dry area and do not store below 40° F (4 °C). **DO NOT FREEZE.**

RECOMMENDED MATERIALS TO USE FOR

O-RINGS, GASKETS, HOSES AND PUMP PACKAGING:

- | | |
|-----------------|---------------------------------|
| 1) Teflon | 4) Buna-S |
| 2) Butyl Rubber | 5) Ethylene-Propylene Copolymer |
| 3) Kalrez | 6) Fluorosilicone Rubber |