

# CHEMTRONICS<sup>®</sup>

## Technical Data Sheet

**TDS # CHV8**

### Chemask<sup>®</sup> HV Solder Masking Agent

#### PRODUCT DESCRIPTION

Chemask<sup>®</sup> HV Solder Masking Agent is a temporary, high viscosity, fast curing, peelable solder masking agent. It is a high temperature resistant compound that protects component-free areas during wave soldering. Chemask<sup>®</sup> HV can be introduced to the wave solder preheat within 4 minutes without adverse effects. Chemask<sup>®</sup> HV may be used to protect pins, posts, contacts and edge connections during conformal coating processes.


- Stable to 515°F (268°C)
- Compatible with rosin, no clean, water soluble fluxes and cleaning solvents
- Leaves no residue
- Ready for wave solder in 4 minutes
- Dries tack free in 15 minutes
- Non-contaminating

#### TYPICAL APPLICATIONS

Chemask<sup>®</sup> HV Solder Masking Agent protects:

- Component Free Areas for Soldering
- Components
- Pin Connectors During Soldering
- Temperature Sensitive Components During Wave Soldering
- Sockets
- Board Areas From Conformal Coating

#### TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

<b>Base Material</b>	Natural latex rubber
<b>Color</b>	Pink
<b>Solvent Stability (cured mask)</b>	Stable in all hydrocarbon, hydrofluorocarbon, chlorinated, and halogenated solvents
<b>Flux Compatibility</b>	All types
<b>Temperature Stability</b>	515°F
<b>Tack-Free Drying Time (10 mils @ 77°F)</b>	15 min.
<b>Cure Time (10 mils @ 77°F)</b>	30 min.
<b>Viscosity (@ 77°F) (± 500 cps)</b>	~35,000 cps
<b>Viscosity Adjusted With</b>	Deionized water
<b>Solids Content</b>	~ 60%
<b>Flash Point</b>	Nonflammable
<b>Weight/Gallon</b>	7.2 lbs.
<b>Shelflife</b>	1 year
<b>RoHS/WEEE Status</b>	

#### COMPATIBILITY

Chemask<sup>®</sup> HV Solder Masking Agent is generally compatible with most materials used in printed circuit board fabrication. As with any solder masking agent, compatibility with substrate must be determined on a non-critical area prior to use. Test compatibility on bare copper.

### APPLICATION METHOD

Squeeze Bottle/Syringe	Yes
Spatula	Yes
Screening	No
Automatic Dispensing	Yes
Removal/Clean-up	By Hand

### USAGE INSTRUCTIONS

For industrial use only.

Read MSDS carefully prior to use.

Chemask<sup>®</sup> HV Solder Masking Agent is engineered for all electronic manufacturing applications. When applying by hand using squeeze bottle, syringe or spatula, insure that all areas of the pretinned hole are evenly covered on the side to be soldered. Automatic dispensing equipment may also be used as appropriate.

**REMOVAL:** After allowing the mask to become fully cured, peelable solder mask can be removed by hand or by the use of tweezers. Depending on ambient conditions, peelable mask may remain on assemblies for extended periods of time prior to component insertion.

### AVAILABILITY

CHV8 8 oz. Squeeze Bottle

CHV1 1 Gal. Liquid

### TECHNICAL & APPLICATION ASSISTANCE

ITW Chemtronics<sup>®</sup> provides a technical hotline to answer your technical and application related questions. The toll free number is: **1-800-TECH-401**.

### NOTE:

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. ITW CHEMTRONICS<sup>®</sup> does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.

### MANUFACTURED BY:

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