

# CHEMTRONICS

## Technical Data Sheet

TDS # CW8

### Chemask<sup>®</sup> W

#### PRODUCT DESCRIPTION

Chemask<sup>®</sup> W solder mask is water soluble and designed to be removed with most aqueous cleaning systems. Chemask<sup>®</sup> W contains high temperature compounds that protect component-free areas from solder during wave soldering. This water soluble formulation is stable to rosin, organic and inorganic fluxes.

- Protects boards from molten solder to 515°F (268°C)
- Compatible with most flux types
- Leaves no corrosive residue
- Non-contaminating
- UV Detectable

#### TYPICAL APPLICATIONS

During wave soldering, Chemask<sup>®</sup> W protects:

- Component Free Areas
- Gold Connectors
- Gold Fingers
- Pin Connectors

#### TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

<b>Base Material</b>	Synthetic Resin
<b>Color</b>	Blue
<b>Solvent Stability</b>	Dissolves in water with or without detergent
<b>Flux Compatibility</b>	Aqueous Flux
<b>Temperature Stability</b>	515°F (268°C)
<b>Tack-Free Drying Time (10 mils @ 77°F)</b>	20 min.
<b>Cure Time (10 mils @ 77°F)</b>	1 hr.
<b>Viscosity (@ 77°F) (± 300 cps)</b>	15,000 cps
<b>Viscosity Adjusted With</b>	DI Water
<b>Contains UV Indicator</b>	Yes
<b>Solids Content</b>	~ 40%
<b>Flash Point</b>	Nonflammable
<b>Weight/Gallon</b>	8.8 lbs.
<b>Shelflife</b>	1 year

#### COMPATIBILITY

Chemask<sup>®</sup> W 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.

### APPLICATION METHOD

Squeeze Bottle/Syringe	Yes
Spatula	Yes
Screening	Yes
Stencil	Yes
Automatic Dispensing	Yes

### USAGE INSTRUCTIONS

For industrial use only.

Read MSDS carefully prior to use.

Chemask<sup>®</sup> W solder masking agent is engineered for all electronic manufacturing applications. When applying by hand using squeeze bottle or spatula, insure that all areas of the pre-tinned hole are evenly covered on the side to be soldered. For screening applications, properly clean and prepare screen, then apply masking agent in the same manner as solder paste. Automatic dispensing equipment may also be used as appropriate.

**REMOVAL:** After allowing the mask to become fully cured, the mask may be washed away with water. For optimum performance, water soluble mask may be removed with agitation, ultrasonic, or industrial washing. Surfactants may be added to increase cleaning efficiency.

### AVAILABILITY

CW8 8 oz. Squeeze Bottle

### TECHNICAL & APPLICATION ASSISTANCE

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

### ENVIRONMENTAL IMPACT DATA

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CFC	0.0%	VOC	5.0%
HCFC	0.0%	HFC	0.0%
Cl. Solv.	0.0%	ODP	0.00

CFC, H CFC, C L. S OLV., V OC, a nd H FC num bers shown a re the content b y w eight. O zone de pletion potential ( ODP) is d etermined i n acco rdance w ith t he Montreal Protocol and U.S. Clean Air Act of 1990. The ODP of this product is 0.0. It is the sum of the ODP of the s ubstances t hat m ay c ontribute to t he de pletion of stratospheric oz one, ba sed upon t he w eight o f e ach substance in the product's formulation.

### NOTE:

This i nformation i s b elieved t o be a ccurate. I t i s intended for professional end users having the skills to e valuate a nd u set he d ata p roperly. CHEMTRONICS does not guarantee t he accuracy of t he data a nd a ssumes no l iability i n connection with damages incurred while using it.

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