

# Technical Data Sheet

## EPON™ Resin RSW-2801

### Product Description

EPON Resin RSW-2801 is a nonionic, waterborne dispersion of a multifunctional epoxy resin. It is intended for high performance applications such as industrial fabric finishes and adhesives which require maximum chemical and solvent resistance and/or elevated temperature service.

### Application Areas/Suggested Uses

- Size treatments for organic and inorganic fibers
- Textile binders and stiffeners
- Film adhesives
- Heat cured coatings
- Performance modifier for other waterborne resins

### Benefits

- High epoxy group content
- High epoxide functionality
- Completely water reducible
- Completely free of organic solvents
- May be formulated for low VOC coatings
- High crosslink density in cured films gives high Tg and excellent moisture resistance

### Sales Specifications

Property	Value	Unit	Test Method
Particle Size, Bk, Dw Wt. Avg.	1.6 max.	µm	SRC 00033
pH	4 - 7		ASTME70
Solids Content	52 - 54	%m	ASTMD-1259
Viscosity at 25°C	5000 - 18000	cP	ASTMD2196
Weight per Epoxide, WPE	200 - 220	g/eq	ASTMD1652

### Typical Properties

Property	Value	Unit
Appearance	Opaque white liquid	
Density	9.1	lb/gal
Organic Cosolvent	None	

### Processing/How to use

#### General Information

EPON Resin RSW-2801 is most commonly used in cured systems by reacting the epoxide functional groups. Water dispersed or water soluble curing agents which react with epoxide groups or promote epoxy self polymerization can be used as crosslinking agents for EPON Resin RSW-

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2801. Such curing agents include dicyandiamide, polyamides, and aliphatic amines. In heat cure applications in combination with a suitable crosslinking agent, EPON Resin RSW-2801 will form a clear, highly crosslinked, tough, and chemical resistant film. Applications where EPON Resin RSW-2801 may be cured include textile binders and stiffeners, film adhesives, and heat cured coatings.

In addition, EPON Resin RSW-2801 can be used without curing agents as a film former for fiber sizing applications for reinforcement of thermoset and thermoplastic matrix systems. Upon evaporation of water, EPON Resin RSW-2801 coalesces to form a clear, continuous, non-tacky film at ambient temperature.

## Safety, Storage & Handling

Please refer to the MSDS for the most current Safety and Handling information.

EPON Resin RSW-2801 should be stored in its original containers and between 50°F and 80°F, although storage for short periods of time at temperatures up to 100°F is acceptable. Do not allow the product to freeze. To prevent skinning or surface drying, do not leave the product uncovered for extended periods of time. Some settling of the waterborne resin dispersion may occur during storage. In general, waterborne dispersions should be lightly and thoroughly agitated before use to ensure homogeneity.

Exposure to these materials should be minimized and avoided, if feasible, through the observance of proper precautions, use of appropriate engineering controls and proper personal protective clothing and equipment, and adherence to proper handling procedures. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheet (MSDS) for these and all other products being used are understood by all persons who will work with them. Questions and requests for information on Hexion, Inc. ("Hexion") products should be directed to your Hexion sales representative, or the nearest Hexion sales office. Information and MSDSs on non-Hexion products should be obtained from the respective manufacturer.

## Contact Information

For general product literature and technical assistance, visit our website at: [www.hexion.com](http://www.hexion.com)

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