8331 END OF LIFE and Replacement

PCN Tracking Number: 003-210323

Notification Date: 27 April 2021

PCN Effective Date: 23 July 2021

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Summary: The 8331-14G has been discontinued and replaced by part number 8331D-14G. The 8331D was formulated to remove Substances of Very High Concern (SVHC's). The 8331 will be available for a limited time as made to order product for North America only.

Affected Product Identification

Product Name: *8331 Silver Conductive Epoxy Adhesive*

Product Identification: 8331

Use: As a solder replacement for bonding heat-sensitive electronic components or for making conductive connections where soldering is not an option, such as when binding to glass, soft metals, or plastics.

Method of Identifying New Product

The "8331-14G" product catalog number is being obsoleted.

Table 1. Catalog number change

Obsolete Catalog Number	*Replacement Catalog Number*
8331-14G	8331**D**-14G
8331-50ML	8331**D**-120G
8331-200ML	Not available

Type of Change

☑ Major Change	☐ Minor Change		
☑ Material Change	☑ Environmental impact	☑ Hazard	☐ Fit (tolerance)
☑ Product Obsolescence	☑ Specification Change	☐ Function	☐ Format/size
☐ Process	☐ Quality	☐ Form/Appearance	☐ Other

Product Properties Comparison

General Properties	***8331D-14G*** (Nearest Version)	***8331-14G*** (Discontinued Version)
Color	Silver Grey	Silver Grey
Density	2.40 g/mL	2.29 g/mL
Hardiness	78D	73D
Tensile Strength	13 N/mm^2 [2 400 lb/in^2]	13 N/mm^2
Compressive Strength	39 N/mm^2 [11 000 lb/in^2]	39 N/mm^2
Resistivity	1.8 x 10-3 Ω·cm	7.0 x 10-3 Ω·cm
Usage Parameters		
Working Time	20 min	10 min
Service Temperature Range	-50–150 °C	-55–150 °C
Shelf Life	3 y	3 y
Storage Temperature Limits	16 to 27 °C [61 to 81 °F]	16 to 27 °C [61 to 81 °F]
Viscosity @25 °C [77 °F] (Part A)	130 Pa·s	1 000 Pa·s
Viscosity @25 °C [77 °F] (Part B)	130 Pa·s	15 000 Pa·s
Full Cure Time @ Room Temperature	6 h	24 h
Thermal Properties		
Glass Transition Temperature	35 °C [133 °F]	50 °C [124 °F]
Thermal conductivity @25 °C [77 °F]	1.5 W/(m·K)	1.4 W/(m·K)

Reason for Change

Environmental Impact

The 8331 was reformulated to remove Substances of Very High Concern (SVHC's), specifically the chemical substance 4-nonylphenol, branched (CAS No 84852-15-3). The new 8331D is a safer replacement. The functionality of the epoxy adhesive remains unchanged.

Change Schedule

The 8331-14G is being discontinued as stock item.

Last Manufacture Date	Made to order for other sizes are available in North America only
Last Buy Date	Once existing stock is exhausted
Proposed Ship Date of replacement	Currently being shipped
Product Qualification Date	September 30, 2019

Anticipated Impact

The overall impact is anticipated to be positive for both our distributors and our customers.

Form

The shape, visual appearance, surface finish and color remain similar between both products. However, the viscosity for the 8331D is much lower for both parts A and B allowing for applications to be managed more easily.

Function

The performance characteristics are very similar for both products.

Process

The 8331D has improved with longer a working time and a shorter cure time.

Quality

The quality and fitness for intended use remains just as high as before.

Contact Information

Contact us regarding any additional questions regarding this product change.

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This report is prepared in compliance with the JEDEC standard JESD46.