

no 6201, 02-09-15

# SILBOND® 40-HF

(ethyl polysilicates - higher flashpoint)

#### **SPECIFICATIONS**

Specific Gravity	.1.055 – 1.070 at 20°C (68°F)
Color	.30 APHA max
Acidity	.0.001% max (as HCl)
Alkalinity	.0.001% max (as NH <sub>3</sub> )
Low Boilers	.0.8% by wt max
Silica Content	.40.0% by wt min as SiO <sub>2</sub>
Iron	.3.0 ppm max

Flash Point .....>100°F Tag Closed Cup

#### **PHYSICAL PROPERTIES**

Form	.Water-white liquid
Molecular Weight	.744 average
Density	.8.8 lbs/gal at 20°C (68°F)
Boiling Point	.172°F (78°C)
Melting Point	130°F (-90°C)
Flash Point	
	Tag Closed Cup
Viscosity	.5.75 cp at 20°C (68°F)

### **USES**

SILBOND® 40-HF is a concentrated form of available silica with a flash point above 100°F (38°C), classifying it as a combustible liquid. This product is available for customers requiring a higher flashpoint than SILBOND® 40 . It is a partially hydrolyzed mixture of monomers, dimers, trimers, and high polymers. Average -Si-O-Si-chain length is about five. It is commonly used as an intermediate for less concentrated, more highly hydrolyzed binders for a variety of end uses. This binder is used for inorganic zinc-rich coatings, investment casting molds, cores and ceramic shapes and coatings. For further information, please contact our customer service department at silbond@evonik.com.

#### SAFETY AND HANDLING

Our material safety data sheet describes all aspects of the proper and safe use of this product.

## **SHELF LIFE**

Stored unopened and under proper conditions, the shelf life is expected to be one (1) year.

All information concerning this product and/or all suggestions for handling and use contained herein are offered in good faith and are believed to be reliable. Silbond Corporation, however, makes no warranty as to the accuracy and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nothing contained herein shall be construed as granting or extending any license under any patent. Buyer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purpose. The information contained herein supersedes all previously issued bulletins on the subject matter covered.

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