

SC-3100 SILANE

3-Glycidoxypropyl trimethoxysilane

PRODUCT DESCRIPTION

SC-3100 is a clear, colorless low-viscosity liquid with a slight turpentine-like odor. It is soluble in alcohols, ketones and aliphatic or aromatic hydrocarbons.

TYPICAL PRODUCT DATA*

* Value when leaving plant

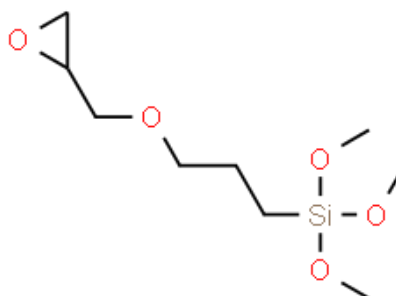
Property	Unit	Typical Value
CAS#	-	2530-83-8
Appearance	-	Colorless transparent liquid
Boiling point (760mmHg)	°C	290
Flash Point (closed cup)	°C	110
Refractive index (25°C)	°C	1.428
Density (25°C)	g/ml	1.07
Purity	%	≥89%

* These values are not intended to be used as specifications but as suggested characteristics

PACKAGING AND AVAILABILITY

SC-3100 Silane is available in a 200 kg. steel drum or a 1000 kg. IBC container.

TECHNICAL DATA SHEET



TYPICAL FEATURES AND APPLICATIONS

SC-3100 is a bifunctional silane possessing a reactive organic epoxide and hydrolysable inorganic Methoxysilyl groups. The dual nature of its reactivity allows it to bind chemically to both inorganic materials (e.g. glass, metals, fillers) and organic polymers (e.g. thermoplastics, thermosets or elastomers). It is particularly employed as an adhesion-promoting additive in waterborne systems, e.g. improving the adhesion of acrylic latex sealants.

INFORMATION FOR USE

In the presence of water, the methoxy group of SC-3100 hydrolyzes to form reactive silyl groups that can bond to the surfaces of a variety of inorganic substrates. The hydrolysis of SC-3100 can be catalyzed by organic acids, such as acetic acid. Suitable inorganic materials: glass, fiberglass, quartz, quartzite and metal. Resins systems commonly enhanced by SC-3100 include epoxy, phenolic, polyurethane, PAVC, acrylic and polythiorubber.

SHELF LIFE AND STORAGE

In the unopened original container, SC-3100 has a shelf life of one year. Store product in a dry and cool place.

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ SAFETY DATA SHEET AND CONTAINER LABELS FOR SAFE USE, PHYSICAL, ENVIRONMENTAL, AND HEALTH HAZARD INFORMATION.

LIMITATIONS: Not intended for human injection. This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

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